How Heart's Hassles Paid Off * Your LP $: Who Gets What

FEBRUARY 1978 $1.25

Cleaning Those Dirty Grooves

Record-Care Products that Really Work
THE PIONEER CT-F4242.
THE LOGICAL SUCCESSOR
TO THE WORLD'S BEST SELLING
CASSETTE DECK.

EVEN BETTER.

maxell UD C90
Ultra Dynamic Cassette Tape
In-Unit High Performance Recording
For the last two years, the CT-F2121 has satisfied more people than any other cassette deck in the world. Because the major difference between it and much more expensive front-loading cassette decks was price. Not performance. 

But there remained one highly critical group of people who were never satisfied. Pioneer’s engineers. Who were constantly looking for ways to make it even better.

**THE DIFFERENCES YOU CAN SEE.**

The most obvious improvement over the old 2121 is the new front end of the CT-F4242.

What isn’t quite as obvious is the thinking behind it. The new push-button oil-damped door, for instance, doesn’t tilt in like the CT-F2121’s, or out like others. Instead, it slides neatly up over the lighted tape transport. So it’s easier to get your cassette in and out of the deck.

This same kind of thinking went into repositioning the hard Permalloy Solid tape heads. Vertically. Right at your fingertips where you want them. So it’s no hassle to keep them free of dust and in good working order.

Pioneer’s engineers also put a great deal of thought into features our competitors seem to have given very little thought to. Features like a three-position bias and equalization switch, instead of the more typical two. And a six fin tape drive shaft, instead of the common three, to hold your cassettes more securely.

The point is, you’ll see a lot on the new CT-F4242 that you won’t see on other modestly priced cassette decks.

But there’s more to this deck than meets the eye.

**THE DIFFERENCES YOU CAN HEAR.**

By far, the most impressive refinements in the new CT-F4242 are the ones you can’t see. Inside, for example, where many cassette decks use small flywheels that can cause wow and flutter, the flywheel in the new CT-F4242 is massive. (In fact, it’s 30% bigger than the 2121’s.) Our bigger flywheel reduces wow and flutter even further. So you get cleaner and crisper recordings.

Then there’s our new Dolby system. Practically every decent cassette deck today has some sort of Dolby system that adds clarity to the music by reducing tape hiss. But the Dolby in the CT-F4242 cuts tape hiss enough to produce an incredible signal-to-noise ratio of 62 decibels. A figure comparable to far more expensive equipment.

And although you’ll find a multiplex filter switch on many cassette decks, you won’t find one on the CT-F4242. It’s built-in. Which literally means that you can’t make a bad FM recording.

If you’re beginning to get the idea that there are vast differences between the CT-F4242 and other decks for anywhere near the same price, you’re right.

So visit your Pioneer dealer and listen to the most sophisticated cassette deck ever made for the money. Pioneer’s CT-F4242.

Once you hear it, you’ll be glad Pioneer couldn’t leave well enough alone.

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*PIONEER*  
**WE BRING IT BACK ALIVE.**  
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**PIONEER 1977 U.S. PIONEER 1977**

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*Walnut finish wood finish optional at extra cost.*
WHEN SOMETHING WORKS THIS SUCCESSFULLY MOST PEOPLE WOULDN'T MESS AROUND WITH IT.
THE PIONEER CT-F2121.
THE WORLD'S BEST SELLING CASSETTE DECK.
The source of perfection in stereo sound... Pickering's new XSV/3000

The reviewers applaud as never before!

"... we don't see how you can do better at any price."

"The new unit offers the stereo performance of the XUV/45000 (or perhaps a little better than that) at a lower price. It seems hard to go wrong with such a combination."

CBS Technology Center. High Fidelity. February 1977

"Congratulations to all concerned on a fine contender amongst the world's best stereo pick-ups."
John Borwick. Gramophone. United Kingdom 1977

Pickering's new XSV/3000 is a remarkable development. It possesses a totally new and different design that makes it the precursor of a whole new generation of sophisticated, advanced stereo cartridges.

This has been made possible by technological advances in two areas. First, it has an unusually tiny, samarium cobalt (rare earth) magnet of remarkably high power that permits extremely low mass, and also offers high output. Second, this cartridge features the new Stereohedron™ stylus tip, a Pickering first! This extraordinary shape has a far larger bearing radius, which provides increased contact area in the record groove. This assures gentler treatment of the record groove, longer record life, and also, far longer stylus life.

This cartridge provides remarkably smooth and flat frequency response; its channel separation is exceptional, its transient response possesses superb definition. Truly, Pickering's XSV/3000 represents a whole new concept of excellence in stereo cartridges... the true Source of perfection in stereo sound.

For further information write to Pickering & Co., Inc. Dept. HF
101 Sunnyside Blvd., Plainview, New York 11803

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CIRCLE 30 ON READER-SERVICE CARD
FEBRUARY 1978

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Happy Anniversary, ABC

During the past year, much has been written about ABC's rocketing from last to first place among TV networks. (Nobody seems to have connected the corporation's dramatic rise in fortunes with its acquisition shortly before of HIGH FIDELITY and our sister publication, MODERN PHOTOGRAPHY.) But in all the printed stories I read, I came across no reference to what ABC had contributed to America's musical life. Since this month marks the twenty-fifth year since Leonard Goldenson merged his United Paramount Theaters with the old American Broadcasting Company to form American Broadcasting Companies, Inc., I thought I would investigate that subject and, if I found anything of interest, write about it as a sort of anniversary present to our parent company. What I did find surprised me.

Take the ABC Symphony, for example. Never heard of it? Yet for thirty Saturdays each spring and summer from 1943 through 1948, one could hear concerts by this orchestra under such conductors as Antal Dorati, Maurice Abravanel, Roy Harris, Bronislaw Gimpel, Earl Wild, and Nicolai Berezowsky. Gimpel and Wild also appeared as solo violinist and pianist, respectively, and other soloists included the likes of harpsichordist Sylvia Marlowe, pianist Gary Graffman, violinist Ruggerio Ricci, and violinist Emanuel Vardi. That it didn't capture the musical public's imagination might have been due to its lack of a star conductor (NBC, after all, had Toscanini) or even a permanent conductor (CBS had Howard Barlow). But for six years, it was there.

Or how about the more recent ABC String Quartet? This, at least, I remembered, for during the mid-Sixties, when New York's WABC-FM was a major classical station, its top-notch quartet weekly contributed the only live stereo music of any sort broadcast to the Metropolitan area. The group not only played string quartets, but expanded for memorable performances of such works as Mendelssohn's Octet, Chausson's Concert for Violin, Piano, and String Quartet, and Glazunov's Concerto for Saxophone and Strings.

For years until 1963 the ABC radio network was of course the outlet for the Metropolitan Opera and, during the Koussevitzky era, for the Boston Symphony Orchestra as well. And ABC-TV made the first telecasts from the Met: the opening nights of 1948 (Otello), 1949 (Der Rosenkavalier), and 1950 (Don Carlos).

Perhaps most far-reaching, ABC was the first network to make that revolutionary decision to transcribe broadcasts: the Bing Crosby radio show—on discs in 1946-47 and on tape thereafter. (For the full story, see John T. Mullin's "Creating the Craft of Tape Recording," HF, April 1976.) This decision all but transformed American broadcasting, making editing possible and a greater variety of programs from a greater variety of sources more readily available. Ironically, it also led to today's automated and syndicated radio (see HF, September and October 1977) and to the decline of network radio programming that Gene Lees described in last month's issue.

Unfortunately, today all symphonic, chamber, and operatic music remains the domain of independent programmers and broadcasters. Good music "networks" generally air the shows that link them at differing times. Only the Met broadcasts remain to remind us of the time when Americans around the country were bound together as they listened to the same good music at the same time.

The next quarter-century may change all this for the better. If so, we ask our parent to remember the best of its past and, in its newly won success, take the lead in the future.

Leonard Marcus
It's time for everybody else to start playing catch-up. Again.

From the very beginning, experts have acclaimed the performance and feature innovations of Yamaha receivers as nothing less than spectacular. But now, we've outdone ourselves. Yamaha is introducing a new line of receivers with such unprecedented performance, it's already changing the course of audio history.

Real Life Rated™ While traditional laboratory measurements provide a good relative indication of receiver performance, they simply don't tell you how a receiver will sound in your living room in actual operation. So Yamaha developed a new standard for evaluating overall receiver performance under real life conditions. It's called Noise-Distortion Clearance Range (NDCR). No other manufacturer specifies anything like it, because no other manufacturer can measure up to it.

We connect our test equipment to the phono input and speaker output terminals, so we can measure the performance of the entire receiver, not just individual component sections like others do. We set the volume control at -20dB, a level you're more likely to listen to than full volume. We measure noise and distortion together, the way you hear them.

On each of our new receivers, Yamaha's Noise-Distortion Clearance Range assures no more than a mere 0.1% combined noise and distortion from 20Hz to 20kHz at any power output from 1/10th watt to full-rated power. Four receivers, one standard. On each of our four new receivers, Yamaha reduces both THD and IM distortion to new lows—a mere 0.05% from 20Hz to 20kHz into 8 ohms. This is the kind of performance that's hard to come by in even the finest separate components. But it's a single standard of quality that you'll find in each and every new Yamaha receiver. From our CR-620 and CR-820 up to our CR-1020 and CR-2020.

What's more, we challenge you to compare the performance and features of our least expensive model, the CR-620, with anybody else's most expensive receiver. You'll discover that nobody but Yamaha gives you our incredibly low 0.05% distortion and -92dB phono S/N ratio (from moving magnet phono input to speaker output).

You'll also discover that nobody else starts out with such a variety of unique features. Independent Input and Output Selectors that let you record one source while listening to another. A Signal Quality Meter that indicates both signal strength and multipath. The extra convenience of Twin Headphone Jacks. Or the accurate tonal balance provided at all listening levels by Yamaha's special Variable Loudness Control.

More flexibility. It's consistent with Yamaha's design philosophy that you'll find the same low distortion throughout our new receiver line. Of course, as you look at Yamaha's more expensive models, it's only logical that you'll find the additional flexibility of more power, more functions, and more exclusive Yamaha features.

For example, there's a sophisticated tuner, with unique negative feedback and pilot signal cancellation circuits (patents pending), that makes FM reception up to 18kHz possible for the first time on a receiver. Plus other refinements like a Built-In Moving Coil Head Amp, Fast-Rise/Slow-Decay Power Meters, and Yamaha's own Optimum Tuning System.

Now's the time to give us a listen. Our new receiver line is another example of the technical innovation and product integrity that is uniquely Yamaha. And your Yamaha Audio Specialty Dealer is an example of uncommon dedication to faithful music reproduction and genuine customer service. It's time you heard them both.

If your Yamaha Audio Specialty Dealer is not listed in the local Yellow Pages, just drop us a line.

YAMAHA Audio Division, P.O. Box 66L10, Buena Park, CA 90622 ©1977 YAMAHA INTERNATIONAL CORP.
"Take the Shape of Things to Come" is the theme of our March issue, as we explore the long-range implications of the latest developments in magnetic-tape recording. Audio-Video Editor Robert Long examines the impact of video cassette recorders upon the home-entertainment field today and tomorrow in VCRs: A Way-of-Life Revolution in the Making? And Associate Audio-Video Editor Harold A. Rodgers takes us into the professional studio for a peek at Digital Recording—how it differs from current technology and what its astonishing capabilities will mean to music reproduced in the home. Paul Henry Lang will help us celebrate Vivaldi's 300th Birthday with a critical discography of the baroque master. BACKBEAT takes two to Todd Rundgren and goes to a Carly Simon recording session to watch Engineer Lew Hahn in action. There will also be John Culshaw, Gene Lees, R. D. Darrell, and our usual complement of news reports and reviews.

SOLUTION TO HIFI-CROSTIC NO. 32

[EDUARD] HANSLICK: Vienna's Golden Years of Music, 1850-1900

It is impossible to speak and think of oneself more modestly than [Johann] Strauss [Jr.] did. His elastic figure, unbent by the years, will be sadly missed in Vienna. He was a last symbol of cheerful, pleasant times casting a fading light upon our dis-tinguishing views from those of critics whose
terpretations in general. Surely Mr. Johnson

Tchaikovsky's Romeo and Juliet or Ravel's
tones can never be adequately captured on
tact of his recording were hired from a London

Mr. Chipman replies. Mr. Johnson prompted some rechecking of the opening bars in various Rachmaninoff Third recordings. While I still hear the doubling of the solo cello line in the Ormandy, I'm prepared to concede that Stokowski may in fact have left the scoring alone. My original impression of his retouching was probably a function of the compositional vagaries I noted in that recording and my own expect-ant."set" that anything was possible from the
to pass extensive examinations adminis-
ters (hams) who have a legitimate
dealers with the situation at the expense of
more than 300,000 American amateur radio
operators (hams) who have a legitimate
need for the equipment.

Radio amateurs, as opposed to CBers who get their licenses by mail, are required to pass extensive examinations adminis-
tered by the FCC demonstrating the technical knowledge necessary to properly oper-
ate an amateur station and to prove com-
petence in the International Morse Code. Most amateur transmitters do not for stop more than 200 watts; linear amplifiers are necessary for outputs greater than this.

By 1979 there will be more than 500,000 li-
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to pass extensive examinations adminis-
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ate an amateur station and to prove com-
petence in the International Morse Code. Most amateur transmitters do not for stop more than 200 watts; linear amplifiers are necessary for outputs greater than this.
The new Bose Model 501. It shapes the sound to fit your living room and your music.

The new Bose Model 501 Direct/Reflecting® speaker captures the realism of live music by using room-wall reflections to recreate the balance of reflected and direct sound you hear at a live performance.

At the same time, the exclusive Bose Direct Energy Control lets you adjust the radiation pattern of the outward-firing tweeter for the size and shape of your room, and for your music. Broader, for the sweep of a symphony, or tighter, for the intimacy of a vocalist.

Two extended-range, 3-inch tweeters deliver crisp, clean highs, while the high-performance 10-inch woofer produces very deep, powerful bass with practically no distortion. And an innovative Dual Frequency Crossover™ network lets tweeters and woofer play simultaneously over more than an octave, for smooth, open midrange.

Hear the new Model 501, the speaker that shapes the sound to fit the way you listen to music at Bose dealers now.

For a detailed description of the Model 501 and the technology behind it, send $1.00 to Bose Corporation, Dept. PVN, The Mountain, Framingham, Mass. 01701. You will receive a full-color Model 501 brochure, a 12-page owner's manual, and a copy of Dr. Amar Bose's article on "Sound Recording and Reproduction" reprinted from Technology Review.

Cabinets are walnut-grain vinyl veneer. Patents issued and pending.
A new Space Program by Sansui.

Designed to send every audiophile into orbit.

Sansui has conquered space — the space in your listening room. Our engineers have created a rack to hold all your high fidelity components in one place so they're easily accessible and easy to operate. And the Sansui GX-5 rack is so elegant you will be proud to display it in your home. The Sansui GX-5 rack is about the only EIA 19" standard-width rack available with casters for moving your sound system easily from room to room. It is 37-1/2 inches tall and can hold every rack-mountable component. You can also adjust the height of each unit to meet your needs.

We have filled the rack with our choice of outstanding Sansui components. And there's still plenty of room for your records. Listen to them on the Sansui SR-838 Quartz-Servo direct-drive turntable, about the most elegant and stable precision turntable in the world. Even when set on top of so much power, the SR-838 will perform free from all noise and feedback.

When your mood changes, listen to your favorite FM station on the Sansui TU-717 tuner. Reception, even of the weakest stations, is outstanding, with selectivity so high there is never a problem with adjacent channel programming.

And, of course, if you want to preserve these treasured sounds for years — as clean and pure as they were the very first time you heard them — it's all possible with the SC-3110 cassette deck, our rack-mountable version of the SC-3100, already well-known for its superior performance and ultraconvenience including Sansui exclusive Direct-O-Matic loading.

To match these outstanding components, Sansui offers you the AU-717 amplifier with the widest frequency response (from main-in) of any available DC integrated amplifier at any price. With astonishingly low distortion and noise, and wide overall frequency response, the signal is an ultra-faithful replica of the original. The AU-717 delivers the brilliance and all the nuance that makes music so important in your life.

Listen through a pair of SP-L800 (or SP-L900 or 700) dual-woofer speaker systems. They have been designed to give you the full enjoyment of the clean and pure sound that our advanced technology components provide.

Of course, you can select other components to meet your own listening needs. You may want slightly less power; so we offer you the AU-517 DC integrated amplifier, created with the very same expertise as its bigger brother, the AU-717. If you wish to spend a little less on your cassette, you can choose the SC-1110.

And for you recordists and musicians we have something almost out of this world. The AX-7 mixer/reverb unit is about the finest home recording console that you can find at such a reasonable price. Versatility is the key, with up to 6 inputs for microphones, line level, electrical instruments, discs, broadcasts or tapes. You get panpots and 20dB input level attenuators on the 4 main inputs. Reverb is included, as well as circuits for 4-channel equalization and noise reduction. Record the sounds you create on up to 3 tape decks.

We're sure you'll want to visit your local franchised Sansui dealer for a complete demonstration of Sansui's new Space Program. Just think about it. It will send you into orbit.

*Walnut veneer finish
These should not be your first loudspeakers.

The longer you've lived with other kinds of sound, the more you'll appreciate Tannoy.

The difference in Tannoy loudspeakers involves a dual concentric design that is quite unlike any other in the world.

Simply put, this design means that the high-frequency driver is physically integrated with the low-frequency driver. The positioning is such that the sound emerges not just phase corrected, but also phase coherent.

And that coherence is maintained throughout your listening room.

We're not new at this, of course. In fact, we've been refining our design for over 30 years. We've refined it so expertly that Tannoy dual concentrics are now the most widely-used studio monitors in Britain.

And the speakers we sell to professionals are the same speakers we offer to you.

Tannoy loudspeakers are available in five models — from the shelf-sized Eaton to the imposing Arden. To find out where to audition a pair, write Henry Wood, Jr., Tannoy, Inc., 122 Dupont Street, Plainview, NY 11803.

But don't be hasty. Only experience will tell you how good they are.

TANNOY
The world's most refined speaker design.
that could conceivably be used illegally by CBers. This seems a more reasonable way to enforce the law without penalizing a group that has prided itself on more than sixty years of self-regulation and service to the public.

Philip J. Johnson
Ithaca, N.Y.

Here at HF, our main concern is to get the interference caused by illegal transmitters out of audio systems and television sets. Assuming that licensed radio amateurs can be trusted not to make this equipment available to CBers, the American Radio Relay League's proposal, as outlined by Mr. Johnson, seems reasonable to us.

Spanish Harpsichord Works...

R. D. Darrell speculated in his review of London's recording of battle music played by Jonathan Woolls [November] that Francisco de la Torre and two other composers may be represented for the first time on disc. De la Torre's Danza "Alta" has been available from Musical Heritage Society for years—MHS 713, MHS 761, and OR 352/4 (a three-disc set)—and most recently on our December release of MHS 3693.

Margie Williams
Musical Heritage Society
New York, N.Y.

... and Federico Mompou

Although the five-record set of Federico Mompou playing his complete piano music, which received a special citation as part of the Tenth Annual High Fidelity/International Record Critics Award ["Best Records of the Year," December], was not issued by Ensayo in the U.S., these same performances may be obtained by mail order from the Musical Heritage Society [14 Park Rd., Tinton Falls, N.J. 07724]. The discs are individually slipcased but sold as a set as MHS 3462/6.

John W. Trammell
Charleston, W. Va.

Happy Birthday, BACKBEAT

I have subscribed to HIGH FIDELITY for more than twenty years, mainly for the reviews of John S. Wilson. But now you've changed your format, and there is no longer a review section devoted to jazz. Instead, in any given issue there may or may not be a review by J.S.W. in a mishmash called BACKBEAT. I should like to have an answer: Is the ridiculous new format to be continued?

William T. Reinick
Tempe, Ariz.

It goes without saying that this format is one to which we have made a firm editorial commitment. Readers who share Mr. Reinick's displeasure will find justification for our commitment in the editorial in the February 1977 issue—that of BACKBEAT's debut—and Editor Leonard Marcus' reply to reader comments in the May 1977 "Letters" column. As for jazz, in order to cut down on name-calling by those who refuse to recognize that it is an integral part of popular music, we have obliged by separating John S. Wilson's and Don Heckman's monthly jazz reviews from the pop and rock coverage.

I would like to thank you wholeheartedly for expanding your critical coverage of pop and rock albums. I had written a couple of times requesting that you do so but had almost given up. Now your magazine provides its readers with much more to experience.

Phil Musso
San Francisco, Calif.

Late Strauss on Records

A year ago HIGH FIDELITY reported that EMI was producing a recording of Richard Strauss's Die schweigsame Frau with Marek Janowski conducting and a cast including Jeannette Scovotti, Hermann Prey, and Theo Adam. Since that time I have heard and seen nothing of this project. As I have a very great interest in the as yet unrecorded late operas of Strauss, I was looking forward to this recording with some enthusiasm. Can you tell me what is up?

Also, are any companies considering production of Intermezzo, Die ägyptische Helena, Friedenstag, Daphne, and Die Liebe der Danae? The lack of recordings of these operas seems to me a deplorable gap in the catalog.

Scott Eggert
Chicago, Ill.

There is as yet no release date for Die schweigsame Frau. The recording was be-

A superior TUNER on its own separate chassis
A superior PREAMP on its own separate chassis
A superior POWER AMP on its own separate chassis

These add up to three individual & discrete components perfectly molded into one integrated receiver, the TR 2075 Mk II. maintaining the specifications & characteristics that are normally associated with such components, and challenging systems costing much, much more.

In addition, the TR 2075 Mk II offers features available on no other receiver at any price: Pushbutton diode mode selection for silent, positive program switching A mini-recording studio function that allows tone & filter controls to be switched into the Tape 2 output, plus fade between Phono 1 & Phono 2. Seven different protection circuits. And much more.

For your nearest Tandberg dealer, call toll-free 800-431-1506, or write: Tandberg of America, Inc., Laborla Court Armonk, N.Y. 10504
If you demand nothing less than true hi-fi performance, you'll understand the advantages and flexibility that resulted when Technics separated the basic amplifier/control/tuner functions into the five units we call the Flat Series: The automatically switchable dual IF band ST-9030 FM tuner. The SU-9070 DC preamplifier. The SH-9010 stereo parametric/graphic frequency equalizer. The SH-9020 peak/peak-hold/average metering system. And the SE-9060 stereo/mono DC power amplifier.

You'll also understand why the Flat Series challenges the performance of the most expensive professional equipment in the world. And very often surpasses it.

Look at the graphs. The reproduced waveform is virtually true to the original. All types of distortion—some measurable, some not—are negligible. And the linear frequency response is extremely wide.

We're confident that the truly discriminating critic will recognize the magnitude of our achievement. Especially when that achievement is offered at prices that are unprecedented for equipment of this caliber. And with the flexibility to incorporate one or more, or all five units into your system. Depending on your needs or budget.

To see how Technics achieved the incredible performance shown in the graphs, you have to see and compare the incredible specifications that are typical of the Technics Flat Series on the facing page.

**Technics SE-9060.** POWER OUTPUT: 70 watts per channel (stereo), 180 watts (mono) min. RMS into 8 ohms from 20 Hz to 20 kHz with no more than 0.02% THD. INTERMODULATION DISTORTION (60 Hz: 7 kHz, 4:1): 0.02%. FREQ. RESPONSE: DC to 100 kHz, +0 dB, -1 dB. POWER BANDWIDTH: 5 Hz to 50 kHz, -3 dB. S/N: 120 dB (IHF A). RESIDUAL HUM & NOISE: 100 μV. INPUT SENSITIVITY & IMPEDANCE: 1V/47kΩ.

All the specifications of Technics Flat Series are too numerous and complex to list here. But their performance is too good to miss. So don't. Technics Flat Series is now available for demonstration at selected audio dealers. For very selective ears. And for very selective eyes there's Technics SH-999. A movable 19” custom rack with rosewood veneer side panels.

This is what you should listen to.
RTR resolves point-source radiation

Originators of column loudspeakers in the United States, RTR has introduced the most meaningful statement of column design since 1970. The RTR 3000 3-Way Speaker System.

What makes the 3000 immediately fresh, almost startling, is its "Resolved Point-Source Radiation Field" which projects a stable image regardless of frequency. Musical instruments are reproduced in a virtually stationary position — just as they were in live performance.

This positive move toward audio reality is the result of significant technological advancements in the design and positioning of each driver within the 3-way system. Primarily is the new RTR soft dome midrange system — the first to successfully integrate smooth response and broad dispersion with outstanding dynamic range and transient response. In consort with the two 10" woofers and solid state super tweeter, this milestone midrange reproduces music with the highest degree of audial integrity.

Packaged superbly in an acoustically transparent, Corinthian column and transient response. In consort with the outstanding dynamic range and frequency. Musical instruments are reproduced in a virtually stationary position — just as they were in live performance.

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Packaged superbly in an acoustically transparent, Corinthian column and affordability priced. Audition the 3000 at your RTR dealer.

gun in August 1976 and, assuming no complications, should turn up in the next year, although we can't say whether Angel plans a domestic release.

Of the other operas, Daphne has been recorded twice. The lovely DG set from the 1964 Vienna Festival (with Hilde Gueden, Karl Bohm conducting) is out of the U.S. catalog, but it has been reissued in Germany as DG Privilege 2721 125 and copies have been imported by German News Company and others. The 1948 recording from Buenos Aires' Teatro Colon (with Rose Bampton, Erich Kleiber conducting) has also been reissued, by Educational Media Associates (IGI 295).

As we go to press, word reaches us of a major Decca/London Strauss project, to include Die aegyptische Helena; watch "Behind the Scenes" for details.

Berlioz and Italy

It's a pity that one off-the-cuff generalization should carelessly slip into Paul Henry Lang's otherwise well-considered review of Il Matrimonio segreto [November]. 'Splenetic' as Hector Berlioz was on many subjects, he did contain his venom toward Italy long enough to set several works there (particularly those of the 1830s) to extract musical ideas from its countryside and people (particularly for Harold in Italy).

and to admire the likes of Spontini's La Vestale throughout his career. While he may have despised Rossini and the opera buffa genre he represented, he did find cause to admire William Tell and to lament Rossini's retiring just when, Berlioz felt, he had attained artistic maturity.

Otherwise, thank you, Mr. Lang. And, of course, thank you, Berlioz. Richard Kassell

Tenafly, N.J.

Poor Linda

Pity Linda Ronstadt. She's cursed with a beautiful voice, and some people say she doesn't understand what she sings. Now Stephen Holden, who is obviously a Ronstadt fan, is saying that "Simple Dreams," her "depressing" new album, "shows a major talent close to exhaustion" [BACKBEAT, November]. I won't go that far. Sure, she made some bad choices in material and she tried to sing some songs she apparently doesn't understand, but there's enough that's good in the album to keep it from being a total loss. Let's just say she couldn't grasp what she was reaching for and hope she learned from the experience. Then, if the album sells a million, she can cry as she banks her royalty checks.

Ronald C. Dailey
San Bernardino, Calif.
THAT NEW BLACK MAGIC.

So it's got an expensive new look that separates it from every deck in its class. Nice. But is that reason enough to call it magic?

No.

But this is: generally speaking, over a quarter century of TEAC engineering is wrapped up in the A-103. Specifically speaking, the A-103 boasts an innovative design that replaces a maze of wires and circuit boards with a single circuit board. That's one reason.

When you press the Eject button, your cassette doesn't pop out at you like a de-ranged toaster. It's cushioned, and works slowly and smoothly for longer deck life. That's two reasons.

Built-in Dolby* circuitry, High Density Permaflux head, frequency-generated servo-controlled DC motor, separate level controls, wide dynamic range, and switchable bias/equalization. Reasons three through eight.

But how do we offer all these things (and more) in a deck that costs as little as the A-103?

That's the real magic!

*Dolby is a registered trademark of Dolby Laboratories, Inc.

SPECIFICATIONS

Signal-to-Noise Ratio:
50dB (without Dolby)
55dB (with Dolby at 1kHz)

Frequency Response:
30-14,000Hz (CrCfFeC)
30-11,000Hz (Normal)

Wow & Flutter: 0.10%
(NA3 Weighted)

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First. Because they last.
Only JVC offers a built-in graphic equalizer for more flexible control of the entire audio spectrum.
One of the very special features you'll find in our three top-of-the-line JVC receivers is our exclusive SEA five-band graphic equalizer. It replaces conventional tone controls to give you more flexible control over every segment of the musical spectrum, from low lows to high highs. (And our JR-S100 II and JR-S200 II offer the same professional-style slider tone controls.)

Our JR-S300 II, JR-S400 II and JR-S600 II give you another exclusive feature: you can switch the SEA equalizer section into the tape recorder circuit, so you can "EQ" as you record, just like the pros do.

JVC's superb Mark II Professional Series receivers give you so many useful features. Like separate power, tuning and signal strength meters, a team of triple power protection circuits, and more power than ever before (our JR-S600 II offers 120 watts/channel, RMS. And carries a price of $650, for example).

Once you've seen the things we build in, you'll wonder why others leave them out.


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JR-S600 II @ 8 ohms, both channels driven from 20Hz to 20kHz, with no more than 0.08% total harmonic distortion. **Approximate retail value.
Nikko Audio Puts It All Together for Your Professional Component System

Nikko builds more than outstanding professional components and separates. And for good reason.

Firstly, we don't think stereo gear of any sort should be spread willy-nilly over the studio.

Secondly, we've created these designer-crafted hand-rubbed walnut veneer equipment racks. And in keeping with our professional attitude, two of the hardwood cabinets are 19-inch standard width.

Thirdly, we've made it possible for you to assemble three fantastic custom packages to fit the cabinet of your choice.

End of commercial on cabinets.

We now invite you to read about a few of Nikko Audio's newest electronic products.

As with every Nikko Audio product features abound in the NT-850 (far top), an AM/FM stereo tuner.

A switchable (normal/narrow) IF band and advanced circuitry are employed to insure low distortion, signal stability, maximum stereo separation and outstanding reception.

Below the tuner is the NA-850 integrated stereo amplifier. It delivers 60 watts, continuous power output, minimum RMS per channel, driven into 8 ohms from 20 to 20kHz, with no more than 0.05% THD.

Take a hard look at the cabinet below with the Gamma I stereo FM broadcast monitoring tuner. A simply remarkable product.

It has a switchable wide and narrow IF stage for low distortion, high sensitivity (1.8µV) and the ability to pull in distant stations with clarity.

Nikko Audio’s ultra-slim stereo preamp, the Beta II, has both an input equalizer and amp circuit powered by independently regulated voltage supply to help eliminate interference distortion. There is no end to its professional features.

Each dual power supply on the Alpha II power amplifier has dual filters to eliminate channel crosstalk and improve stereo separation. Exterior heat sinks keep the amp running cool, necessary when it delivers 110 watts per channel, continuous power output, minimum RMS into 8 ohms, from 20Hz to 20kHz, with no more than 0.03% THD.

The heavyweight of the new Nikko Audio professional gear is the Alpha I basic stereo power amplifier, shown in the bottom cabinet.

However, there is nothing really basic internally about the Alpha I. It uses a 3-stage Darlington direct-coupled OCL, pure-complementary quad-ruple push-pull circuit, rarely found on anything less than exotic amp circuits.

The Alpha I delivers 220 watts per channel, continuous power output minimum RMS per channel into 8 ohms from 20Hz to 20kHz, both channels driven, THD is 0.08%.

The revolutionary Beta I preamp’s circuitry consists entirely of high-voltage FET’s. It’s a mate to the Alpha I and is DC and non-coupling for better frequency response.

The Gamma I stereo FM tuner also appears in the lower cabinet below the Beta I stereo preamplifier.

Now, that’s enough product and specs to satisfy the most discerning audiophile and professional.

Ask your Nikko Audio dealer for a definitive tour of the new Nikko product line.

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Wake up, guys. In your November issue, you claim that the vertical tracking angle of the Stanton 881S is "distinctly higher than the nominal standard of 15 degrees." It is true that the cartridge is a little off, but by 5 degrees, not 10. The standard has been 20 degrees for some time now.—Michael D. Riggs, Cambridge, Mass.

The nominal standard is still 15 degrees. Though the DIN standard (essentially for Germany) has been changed to 20 degrees, no similar change has occurred in the U.S.

I would like to add extension speakers to be used in another room and to be able to control the volume independent of the main unit. I also want to avoid impedance problems. Is it possible to run a connection thirty feet from the tape output to a small integrated amp in the other room? Will there be any adverse effects; and are there any special considerations involved in this?—David Daniel, Monroe, La.

Probably you can do so, but we can’t answer the second question for certain. Even sound contractors have occasional difficulties. Why not try it? Sixty feet of shielded cable (with braided, not wrapped, shield) and a few plugs don’t seem too great a risk to take.

I recently purchased a Dolby-equipped tuner, primarily to receive WFMT in Chicago and other stations that use Dolby encoding. I notice that much the same effect occurs with non-Dolby stations when I push the Dolby button. For instance, a heavily limited classical station in Milwaukee seems to benefit from increased dynamic range, and also some noise reduction, when the Dolby decoding is added. Is this a strange quirk of the combination of the station’s limiting and the Dolby decoding, or is my tuner not really working as it should?—Brian Geri, Milwaukee, Wis.

It may be a quirk. You should expect some noise reduction in playing a nonlinear station through the Dolby circuitry, but you should also expect unnatural sound, with the highs becoming progressively more exaggerated as instantaneous signal levels rise. If the station’s limiting is clipping off the high frequencies under the same conditions, it may produce a sort of “compensation” for this effect, though we still would expect careful listening to reveal that response characteristics vary with signal level, making the “improvement” somewhat questionable.

I am a novice at high fidelity and am searching for information on how to build loudspeaker enclosures and match them to raw drivers. I recently bought two 12-inch and four 3-inch drivers from which to build a stereo pair of speakers. I will appreciate any help you can give.—R. W. Pembuton, Mount Vernon, Ill.

Unless you have test equipment (an oscilloscope, an audio generator, and an audio voltmeter at minimum) and a good bit of technical knowledge, there isn’t much you can do. The old rules for matching a driver to an enclosure never really worked except by trial and error and have been superseded by modern engineering principles. To do the job properly, the behavior of the drivers must be accurately known and a good bit of complex theory applied. The Loudspeaker Design Cookbook, published by S.R.A., 3959 SE Hawthorne, Portland, Ore., 97214, contains some useful information, and (for a fee) S.R.A. will analyze a pair of woofers and return them to you with the data you need.

According to your report on the Dynavector 20-B cartridge [July 1977], you had to lower the impedance to 100 ohms to smooth out the highs in the output by 2 dB. Since my SAE 2800 parametric equalizer lends itself well to controlling the high frequencies, I decreased the level of this section by 2 dB and sometimes by 8 dB, depending on the recording. But even with recordings from Sheffield and Crystal Clear a setting of ~2 or ~4 dB is not doing the trick, since the voices still emit a “shh” sound when they hit an s or a t. Can I obtain the same results by maneuvering the 2800 as I would by changing the impedance of my preamplifier internally?—Gilbert Lopez, Glen Ridge, N.J.

No. You must load the cartridge down. But because of the low impedance, the 100-ohm resistors can be successfully placed outside the preamp. The Sabin Damping Adaptor SR-30, imported by Osawa, does the job very well and is compatible with the Dynavector.

I have Superex PEP-79E electrostatic head-phones (“4-16 ohms”), which are connected to the “B” speaker outlets of a Kenwood KR-4130 receiver, with a pair of Dynaco A-25 speakers (“8 ohms”) on the “A” outlets. Occasionally I would like to run both at once (“A&B”) but fear that the combination might present an unsafe load (lower than 4 ohms) to the receiver. Is the combination safe? If not, can it be made safe by adding resistance to either or both outputs?—James H. Swift, Seattle, Wash.

Unfortunately, we don’t have sufficient data to judge the safety of the combination, but we suspect you have overlooked a point that may make your question moot. Since the phones and the speakers differ in efficiency and, worse yet, are in such dissimilar positions with respect to listeners, you are unlikely to find a single setting of the volume control that will do for both. Many headphones have been fried when they were left connected while speakers were playing at high levels. It is possible to equalize the levels with series resistors (as you suggest, this could prevent any impedance difficulty as well),

If you’ve invested $500 or even $5000 in your high fidelity system, read on. Because what we have to say can have a lot to do with the quality of sound you’re hearing.

Unfortunately, one of the most overlooked components of a fine sound system is the cartridge. And all too often, it can be the one place where you skimped on quality. (Out of sight, out of mind, as they say).

We sincerely believe that an investment in a Sonus cartridge will truly surprise you with the way it improves the quality of your record reproduction. The analytical quality of the Sonus brings out the inner voices of complex musical passages clearly and cleanly. Listening fatigue disappears. And a Sonus introduces no extraneous coloration of its own.

But what we’re talking about is said even better by Sonus owners. “Excellent clarity,” “more fulfilling sound,” “open, airy 3-D sound,” “‘clean, accurate and transparent sound,” are typical of thousands of enthusiastic comments we have received from owners of Sonus cartridges.

Make sure your cartridge matches up to the rest of your system. Write us for further information and the name of the Sonus dealer nearest you.

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Fantastic performance because its revolutionary new Patent Pending VARI-PORTRIONAL system uses Analog Logic Circuitry to anticipate, control and supply only the exact amount of power required for most efficient performance. Conventional Class A and B amplifiers with 250 watts power output, operating at a power in accordance with FTC test requirements, will consume over 40% MORE ENERGY than the Soundcraftsmen "NEW CLASS" amplifiers. Here are just a few "NEW CLASS" benefits:

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WITH THE ONLY TOTAL-SYSTEM APPROACH FOR COMPLETE CLOSED-LOOP EQUALIZATION OF ENVIRONMENT, SOURCE MATERIAL, AND FINISHED PRODUCT—(TAPEs, PROGRAMS, ETC.)...

We include all the accessories and features that are a MUST to make equalization easy, as well as an amazing new experience. An Environmental Do-It-Yourself Test Record edited and endorsed by Soundcraftsmen especially for use with the Soundcraftsmen equalizer. You can personally record your own test record in 1/2 minutes, using a standard 45 rpm record, and test your own system for accurate sound reproduction.

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KA-3500 Stereo Amplifier
40 Watts Per Channel at 8 ohms, 20 KHz no more than 0.03 Total Harmonic Distortion

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but whichever device gets the resistors is likely to suffer in performance due to a lack of damping.

The Sansui BA-2000 power amplifier [HF "Equipment Reports," September 1977] seems to be an excellent amp at a good price. My question is about the amp's ability to play into a 4-ohm load. I plan to buy the Phase Linear Model III loudspeakers, and your test report [June 1977] pointed to "a broad [impedance] trough between about 200 and 700 Hz, where it falls below 4 ohms and could give some solid-state amps a problem." Since the Sansui amp is only 100 watts [20 dBW], I'm not sure the combination is a good one. If not, would two amps do the job?—Leo Mauno, Torrance

Paired BA-2000s will not work, but a single BA-5000 (for only a little more money) should be an excellent choice. It is safe with loads down to 2 ohms, and the extra 5 dB it can supply (it's rated at 300 watts per side) should make a noticeable difference in sound with the Phase Linear IIIs, which are very inefficient.

I own two decks (cassette and open reel), an expander, and a frequency equalizer, along with a turntable, and I like to play disc jockey, making tapes with my components. Is there anything I can buy, or will I be able to mix sound sources, like blending the end of a song from a record with the beginning of a song on a tape, while taping on my second recorder, and using a microphone for announcing? As I understand it, a conventional mixer won't work, but I'm confused.—David Teves, San Ramon, Calif.

Yes, you are: A conventional mixer will work. Some of the disco models may be particularly well suited to your purposes.

I have an ICP eight-track stereo receiver that I would like to improve. My system has a single tone control, which I would like to divide into separate controls for bass and treble. Could you send me instructions or direct me to a source of such information?—Steven Wainwright, Hillsdale, N.J.

With the plan to do is hardly worth the trouble. If you want the capabilities of true high fidelity components, you had better start out with them.

I would like to buy a pair of Infinity QLS-3 or QLS-4 speakers but hesitate because they are said to be very inefficient. The manufacturer recommends a minimum of 35 watts per channel rms for the 3s and 30 watts for the 4s, but no efficiency rating is given in the literature. I own a Yamaha CR-2020 receiver (100 watts per channel), and when I auditioned the speakers in a showroom the salesman played them through a 100-watt amplifier, which seemed to do fine. Do I have enough amplifier power to drive them to reasonable loud levels without fear of clipping?—Tony Biancardi, Monroe, Ga.

For practical purposes, unless your listening room is significantly larger or more absorbent than the room in which the speakers were demonstrated, the power of your unit should be sufficient.
WHY MOST CRITICS USE MAXELL TAPE TO EVALUATE TAPE RECORDERS.

Any critic who wants to do a completely fair and impartial test of a tape recorder is very fussy about the tape he uses. Because a flawed tape can lead to some very misleading results.

A tape that can’t cover the full audio spectrum can keep a recorder from ever reaching its full potential.

A tape that’s noisy makes it hard to measure how quiet the recorder is.

A tape that doesn’t have a wide enough bias latitude can make you question the bias settings.

And a tape that doesn’t sound consistently the same, from end to end, from tape to tape, can make you question the stability of the electronics.

If a cassette or 8-track jams, it can suggest some nasty, but erroneous comments about the drive mechanism.

And if a cassette or 8-track introduces wow and flutter, it’s apt to produce some test results that anyone can argue with.

Fortunately, we test Maxell cassette, 8-track and reel-to-reel tape to make sure it doesn’t have the problems that plague other tapes.

So it’s not surprising that most critics end up with our tape in their tape recorders.

It’s one way to guarantee the equipment will get a fair hearing.

MAXELL. THE TAPE THAT’S TOO GOOD FOR MOST EQUIPMENT.

Maxell Corporation of America, 13C West Commercial Ave., Moonachie, N.J. 07074
A Foregathering of Engineers

In the excitement and anticipation with which most of us approach a new audio component we tend to forget that every item of hardware has a long history by the time it reaches market. That history begins, of course, with a glint in the eye of a design engineer and continues under the aegis of engineering and marketing specialists through all the various stages of development. Thus, the course of audio is plotted, at least initially, in the laboratory. It was with this in mind that we attended the November 1977 convention of the Audio Engineering Society at the Waldorf Astoria in New York. (Our BackBeat section this month carries additional coverage of AES's sights and sounds.)

The big news was in digital recording, a technique that promises hitherto unheard of freedom from noise, distortion, wow and flutter, and, in fact, just about all of the ills that have plagued music reproduction. This is a revolutionary development with such far-reaching ramifications that it exceeds the scope of this column. A fuller treatment will be found among our feature articles next month.

But there were other items of interest. A good deal of attention was paid to transient distortion effects—TIM (transient intermodulation), DIM (dynamic intermodulation), SID (slowing-induced distortion), etc.—and to techniques for expressing them numerically. Significantly, discussion of the latter emphasized the correlation between measurement and audibility; all agreed that, whatever methods eventually are chosen, a lower distortion number should mean a better-sounding amplifier. The fact that conventional THD and intermodulation measurements do not necessarily reflect sonic quality in this way was one of the things that prompted research into TIM in the first place.

Despite the apparently negative verdict delivered by the marketplace, a relatively large number of engineers still is interested in the problems of quadraphonics, as evidenced by the six papers (seven, if you count one on a three-channel system) dealing with the subject. In particular, sound localization in a 360-degree field ("surround sound" if you will) is still a focus of attention. Unfortunately, the partisanship that has hurt quad so badly in the past is still in evidence, both in the heat with which systems are defended and in the intemperance with which competitors are attacked. We hope that future advancements in audio will not be similarly undermined by this sort of technological chauvinism.

Another exciting topic is that of electronic music. Developments in the area are likely to have vast aesthetic consequences. The universe of sound that a composer or performer has at his disposal is staggering. And the methods by which man can manipulate machines are becoming ever more varied and flexible—making it possible, for example, to control a synthesizer by playing a guitar or singing. Robert Ceely of Beep Electronic Music took the composer's point of view more than the engineer's when he examined the ways in which conventional control devices tend to limit musical imagination rather than enhance it.

In areas perhaps closer to home, Daniel Raichel of Audiotron Laboratories Corporation showed that distortion in loudspeakers can never be totally banished because of certain nonlinear effects in the air itself. And James White and Arthur Gust of the CBS Technology Center took a hard look at phono cartridges, identifying and measuring some distortion-producing mechanisms that have, up to now, received little attention.

The question of the audibility of phase anomalies, particularly in loudspeakers, naturally came up. Peter Mitchell, whose article on the subject appeared in our October 1977 issue, presented an expanded version of his views; Robert Berkovitz and Eric Edvardsen of Teledyne Acoustic Research offered a more general approach. The consensus seems to be that phase matters little, if at all.

There was much more, of course, but that's a quick once-over of what the technical people in audio are talking about these days.

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Dr. Peter Goldmark (12/2/06—12/7/77)

At 7:30 on the morning of December 7, as the High Fidelity staff was on its way to Stamford, Connecticut, for discussions on our test report program at the CBS Technology Center, Dr. Peter Carl Goldmark, until 1971 president of the Center (then CBS Laboratories), was killed while driving from Stamford to New York.

It was Goldmark, of course, who led the research team that developed the LP record. In addition, he had garnered more than 160 patents and was instrumental in the development of many areas in communications. He built a successful television receiver in the 1920s, invented the color TV system that was used for probably the world's first color telecast in 1940, and was responsible for the development of Electronic Video Recording, a catalyst in the growth of the video cassette business. Always more interested in the human uses of technology than in the technology itself, he founded Goldmark Communications, with the purpose of adapting the most sophisticated communications techniques to educational needs, after his retirement from CBS. Only two weeks before the Budapest-born scientist's death, President Carter bestowed on him the National Medal of Science.

Goldmark's impact on American audio and video will long be felt.
The simplicity of the Discwasher system belies the extensive research and instrumentation that has produced the world's leading record cleaner. Painstaking development using gas-liquid chromatography, thermal-sensing instruments, precision weighing equipment, friction-measuring instruments and electron microscropy have all contributed to the evolution of the Discwasher Record Care System.

This rigorous application of science has produced an integrated, patented system of brush and fluid which lifts both fingerprints and micro-dust from the record grooves (without smudging them deeper), which allows all contamination and fluid to be removed from the record surface, which preserves the chemical integrity of the vinyl (unlike many liquids and dry cleaning systems) and which offers long-term protection against biological and physical contamination.

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Experience, on the other hand, responds to the valid questions of science and has proven that the best, most convenient, and most effective record cleaning system is the patented Discwasher.

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What is the proper price for milled, hand-rubbed walnut that will last long after the "plastic wonders" are cracked and broken? What is the net evaluation of an incredibly complex cleaning fluid which is lower in dry weight residue and yet more "active" and "safe" in the removal of standard record contamination than any other cleaner? What is the value of your record collection as compared to the protection of approximately 200 cleanings from each small bottle of D3 fluid?

You can be ripped off by cheaper attempts, and fooled by more expensive "followers" of the Leader. But only Discwasher has the Clean Logic of Leadership.

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Introducing the Koss Theory of loudspeaker design and the three new Koss CM speaker systems that prove it.

When Koss invented the stereophone, music lovers and audio experts were amazed at the low distortion, broadband frequency response, and high efficiency achieved by the Koss drivers. Indeed, the resultant Sound of Koss created a revolution in the audio industry.

Today, the exciting new Koss Theory of loudspeaker design has created another revolution. By developing a complex series of audio engineering formulas and by utilizing the precise knowledge of modern computer science, Koss engineers have created a breakthrough in loudspeaker technology of such significance that it heralds the second major revolution in loudspeaker design technology.

For the first time, it's now possible to scientifically derive and produce the optimum system parameters for any loudspeaker. By computerizing the Koss Theory and by first selecting the number of bandpasses desired in the system, the system's desired efficiency, the f3, low bass cutoff, and the desired cabinet size; Koss engineers are able to derive specific design parameters for every component in the total system. In fact, the Koss Theory is so sophisticated that even the structural design of the cabinet and the precise positioning of the components in the cabinet for optimum dispersion and phase coherency are specified.

Of course, what's really important is not the Koss Theory itself but the sound of the three new Koss speakers that prove it. Indeed, with current technology, there are no speakers available at similar prices that can match the Koss CM 1010 two bandpass loudspeaker, the Koss CM 1020 three bandpass loudspeaker or the Koss CM 1030 four bandpass loudspeaker in low distortion, high efficiency, and broadband frequency response.

But then, the incredible sound of these three new speakers isn't surprising when you consider some of the revolutionary new features they offer: Take for example, the CM 1010's unique mass aligned 10-inch passive radiator that enhances the lower 2 octaves of the bass and allows for the use of a specially designed 8-inch woofer to reproduce the critical midrange up to 2.5 kHz. With the alignment mass in place, the CM 1010 reproduces a maximally flat response from an f3 of 35 Hz on outward. However, by removing the alignment mass, those who prefer more acoustic energy in the 50 to 80 Hz range can create an f3 of 40 Hz and a low bass ripple of 1.5 dB centering on 60 Hz.

Or take the CM 1020's dual port design that provides an optimal cross sectional port area for proper cabinet tuning. Or the unique parallel midrange design of the CM 1030. By utilizing two 4½-inch drivers operating in parallel, Koss engineers were able to decrease the excursion of each driver thus creating a dramatic decrease in potential driver distortion and an equally exciting increase in the overall brilliance and presence of the midrange response. Then again there's the Koss high bandpass 1-inch dome tweeter and unique acoustic transformer that creates an incredible 6 dB increase in headroom.

And, of course, there's also the patented quasi second-order crossover network that provides a smooth, acoustically invisible transition from bandpass to bandpass.

But those are just some of the revolutionary features offered by the new Koss CM loudspeakers. Why not prove the Koss Theory of loudspeaker design to yourself by asking your Audio Dealer to give you a full demonstration of the beautiful Sound of Koss. Or write to Fred Forbes, c/o the Koss Corporation, for our free, full color CM loudspeaker brochure. Once you've heard these revolutionary new loudspeakers, we think you'll agree: hearing is believing.
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With the AD-6550’s unique new Remaining Tape Time Meter you never have to worry about running out of tape in the middle of recording your favorite music. In the past you monitored your tape visually and hoped that the musical passage and tape would finish together. Now, this extremely easy to use indicator gives you plenty of warning. It shows you exactly how many minutes remain on the tape. So that when you record the “Minute Waltz” it won’t end in 45 seconds.

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But there’s a lot more to the AD-6550. AIWA has included a Bias Fine Adjustment knob that permits the fine tuning of frequency response to give optimum performance of any brand of LH tape on the market.

Wow and Flutter: Below 0.05% (WRMS)
The AD-6550 cassette deck achieves an inaudible wow and flutter of below 0.05% (WRMS) thanks to a newly designed 38-pulse FG servo motor and AIWA’s special Solid Stabilized Transport (SST) system. And because we use Dolby* we also improve the S/N ratio to 65dB (Fe-Cr). So you can listen to the music instead of tape hiss. The AIWA AD-6550.

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* Dolby is a Trademark of Dolby Laboratories, Inc.
Panasonic Set to Dub VHS Video Cassettes

Three authorized duplication centers for VHS software were set up by the Panasonic Video Systems division late last year: Magnetic Video Corporation, Farmington, Michigan; Bell & Howell, Evanston, Illinois; and Video Software Production, Yonkers, New York. By the time this is printed, a fourth center, located in the Los Angeles area, may well be operational. The centers are to be equipped with the Panasonic PD-600 VHS duplication system, demonstrated last November; it is capable of producing twenty copies from a single master deck. Early indications are that the output of these centers will, at least at first, be educational materials. But a Panasonic spokesman did not rule out software production for the consumer market as well.

Also . . .

Henry Kloss, founder of Advent Corporation and pioneer of projection television, has formed a new company: Kloss Video Corporation of Cambridge, Massachusetts. It will manufacture tubes for projection TV and also license its technology to other manufacturers.

Nautilus Recordings has released a DBX-encoded tape of Randy Sharp’s “First in Line,” hitherto available as a directly cut disc. This marks the first commercial issue of a DBX-encoded tape. Available from Nautilus (P.O. Box 23, Pismo Beach, California 93449) for $75 each, the new tapes represent a limited-edition release of second-generation copies.

Equipment in the News

Nakamichi adds tuner to component line

To complement the Model 410 preamp and Model 420 power amp, Nakamichi has introduced the Model 430 FM tuner. Its front end is said to ensure spurious-response rejection of better than 100 dB. Intermediate-frequency bandwidth provides, via a front-panel switch, 60 to 90 dB of selectivity. The 430 utilizes a tuning lamp system, rather than meters, and a self-lock tuning circuit to prevent drift. Rated frequency response is +0.5, −1.5 dB, 30 Hz to 15 kHz; capture ratio is said to be 1 1/2 dB for normal IF bandwidth, 4 dB for the narrow mode. The price of the Model 430 tuner is $400; Dolby FM can be added with the optional DB-100 plug-in card, $40.

The Obelisk: Shape of things to come

The Obelisk speaker, the result of Shahinian Acoustics’ research into radiation characteristics, provides a prism-shaped environment for its drivers. Asymmetric mounting of the drivers, according to Shahinian, enhances the benefits of the enclosure shape by optimizing sound dispersion and diffusion. An 8-inch woofer is loaded by a transmission line terminating in a 10-inch passive radiator. Crossover, to three 1-inch Mylar dome tweeters, is near 2 kHz. Continuous power-handling rating is 150 watts (21 1/4 dBW); rated frequency response is 35 Hz to 20 kHz, +1, −3 dB; nominal impedance is 6 ohms. In walnut or oak finish, the Obelisk costs $325; teak or rosewood models are $350.
Numark introduces Model EQ-2000 equalizer

Designed to be used either as a room equalizer or in live recording, Numark's two-channel graphic equalizer offers up to 12 dB of boost or cut in seven frequency bands (50, 130, and 350 Hz; 1, 3, 6, and 12 kHz). The EQ-2000 features MAIN and TAPE MONITOR connections. Power consumption is rated at 5 watts and harmonic distortion at 0.05% with a 2 volt output. The 2000 retails for $149.95; a walnut base is available as an option.

Kenwood extends DC amp line

Kenwood Electronics has adapted the design of its high-end DC amplifiers to the new KA-8100 integrated amp. The response down to 0 Hz (direct current) is credited with minimal low-frequency distortion, excellent transient response, and improved sonic localization. The KA-8100 uses a separate power supply for each amplifier channel, plus a third supply for the preamp. Power rating is 75 watts (18¾ dBW) per channel into 8 ohms for 0.03% or less harmonic distortion. Controls for tone, filtering, loudness, and muting all are exceptionally flexible. The price of the KA-8100 is $375.

An add-on subwoofer for compact models

Miller & Kreisel Sound Corp., which makes several subwoofers, has announced the Goliath II, with a built-in crossover that can be adjusted for 50, 75, 100, 125, or 150 Hz. Minimum recommended amplifier power is 35 watts (15½ dBW). The company suggests that the new model is particularly appropriate for use in conjunction with any of the tiny full-range "superspeakers" now on the market (one of which, incidentally, is called David) to rival the overall sound of systems costing considerably more. Goliath II, in a natural wood enclosure, sells for $175.

Edcor's back-to-basics mike mixer and extender

The Model M-41 from Edcor is a no-frills microphone mixer—no controls except loud and soft for the engineer who doesn't believe in processing signals. Up to four inputs mix through the master gain. The Model M 41X, an extender for the M-41, provides six additional inputs. Frequency response of the M-41 is rated at ±1½ dB from 20 Hz to 20 kHz, and the signal-to-noise ratio is specified at 85 dB. Outputs include an RCA jack for connection into at least 5,000 ohms and a ¼-inch phone jack for connection to impedances down to 250 ohms. Inputs will accept impedances from 200 to 100,000 ohms. The M-41 costs $97.50, the M-41X, $59.50.

Shure's monitor speaker

One essential factor in a satisfactory on-stage monitor speaker for live performance is wide-angle high-frequency dispersion. The piezoelectric tweeter array in Shure's Model 702 is said to allow performers to move freely around the stage. The speaker also features controllable bass rolloff and a boosted midrange to cut through any on-stage ambient noise. Designed for use with amplifiers that deliver 50 watts into a 16-ohm load, it has a recessed volume control to prevent breakage and parallel phone jacks for interconnecting more than one system from a single amp cable. The Model 702 costs $238.
These cassette deck manufacturers use SA as their reference for the High (CrO₂) bias/EQ setting:

AIWA • AKAI • CENTREX • JVC
KENWOOD • MERITON • NAKAMICHI
OPTONICA • PIONEER • ROYAL SOUND
SANSUI • SHARP • TEAC • TOSHIBA
UHER • YAMAHA

And are joined by these in recommending SA for use in their decks:

BANG & OLUFSEN • DUAL • FISHER
HARMAN/KARDON • LAFAYETTE
SANKYO • TANDBERG
AND MANY OTHERS.

There's been a quiet revolution going on in the cassette world. Leading makers of quality cassette decks have adopted TDK SA as their reference standard tape for "High" (CrO₂) bias and equalization settings. Why TDK SA? Because TDK SA's advanced tape formulation and super precision cassette mechanism let them (and you) take full advantage of today's advanced cassette deck technology. In addition, a growing number of other companies are recommending SA for use with their machines. So for the ultimate in cassette sound and performance, load your deck with SA and switch to the "High" or "CrO₂" bias/EQ settings. You'll consistently get less noise, highest saturation and output levels, lowest distortion and the widest dynamic range to let you get the best performance from any quality machine. But you needn't believe all this just because we say so. All you have to do is check our references.

TDK Electronics Corp., 755 Eastgate Blvd., Garden City, N.Y. 11530
In Canada: Superior Electronics Industries Ltd.
Thorens Isotrack for custom arm mounting

Elpa Marketing Industries has added the TD-16011B turntable, without tone arm, to its Isotrack line from Thorens. The new model retains the 16-pole synchronous motor, belt drive, and independent drive/arm suspension of the TD-126 series but is delivered with a blank wooden arm mount. In addition, Elpa offers predrilled boards for popular arms from manufacturers such as SME, Infinity, Grace, and Stax. The TD-16011B costs $195 including base and dust cover.

Flanger from Wasatch Music Systems

The Model 900A is a rack-mountable flanger for studio or stage use. Controls include SIGNAL MIX for blending normal with flanged signals, INPUT LEVEL for gain balancing, and EXT/OSC for switching between an external modulation source and the internal oscillator. Two LEDs indicate overload and sweep position. Back-panel phone jacks are provided; balanced XLR jacks are available as an option. The dynamic range of the 900A is greater than 800 dB with no insertion loss, according to Wasatch Music Systems. Input impedance is rated at 20,000 ohms, output impedance at 600 ohms. The price of the flanger is $350, with a foot pedal and a road case available at additional cost.

American Acoustic Labs markets Studio line

Among the speakers in American Acoustics Labs' line is the Studio 2, a three-way system that can be used either as a bookshelf or floor-standing monitor. The air-suspension cabinet encloses a 10-inch woofer, 2-inch midrange, and 3-inch piezoelectric supertweeter. The recommended amplifier power range is 10 to 50 watts (10 to 17 dBW), rated frequency response 27 Hz to 25 kHz, and nominal impedance 8 ohms. Crossovers occur at 4 and 7 kHz. The Studio 2 is finished in walnut-grained vinyl veneer and sells for $149.95.

Universal headshell from Audio-Technica

Audio-Technica's "universal" headshell, which previously had been available only with a premounted pickup, now can be obtained separately. This marketing change was made, according to the manufacturer, to meet the demand from an increasing number of owners of replaceable-headshell arms who frequently use more than one cartridge. The AT N shell, as it is called, retails at $5.95.

Olympus offers microentertainment

The Pearlcorder Microcassette recorder line from Olympus in the past has stressed functions and accessories appropriate for in-the-field recording, as opposed to pure entertainment. The new Model SR-501 incorporates an AM/FM tuner and such features as a sleep switch to put the miniaturized cassette system into another league. Bandwidth of the mono tape system, which will record up to 30 minutes per side, is said to be 300 to 7,000 Hz. The 501, with accessory earphone, wrist strap, one prerecorded Microcassette, and four alkaline penlight cells, sells for $199.95.

For more reports on equipment and accessories, see "Input Output."
Total Energy Response:

The reason why Jensen Lifestyle speakers sound better than any comparable speaker.

Just what is Total Energy Response?

Total Energy Response is the uniform radiation of sound throughout the whole listening area—at all frequencies. And it makes an unquestionable difference in the stereo sounds you hear.

Most speakers are to one degree or another directional. That is, part of the room in front of the speaker gets the full sound. Bass, treble and midrange. While parts of the room to the sides of the speaker get just a fragment of the sound. (See Fig. A)

It's precisely this fault we set out to correct. Because others may tell only part of the story. Often with just one response curve measured from just one position— their optimum position.

However, their results don't look so favorable when the test microphone is moved "off-axis," that is, to the side instead of directly in front of these speakers.

Figure B illustrates this. It is a Total Energy Response curve, taken with test microphones in all positions. When comparing the Jensen (blue line) with a comparably priced "flat" speaker (red line), you can see how deficient the other speaker is in total radiated energy in the mid and mid-high frequencies. This midrange deficiency is unfortunately very common amongst speakers, and gives many so-called "flat" response speakers a very "thin" sound.

The Jensen Lifestyle speaker, on the other hand, demonstrates true Total Energy Response. Uniform radiated power—at all frequencies—throughout the whole room.

These speakers were conceived, designed and tested for this. Tested from every spot in anechoic "dead" rooms, reverberation "live" rooms, and simulated living rooms.

Our finished products: remarkable dispersion for the hard-to-disperse high frequencies—160° or 170° wide, depending on the model. Also expanded dispersion of the critical midrange response. And full, rich bass that still perfectly matches the other frequencies for accurate sound reproduction. The way it's supposed to be heard.

You can see how the sound from a Jensen is distributed much more evenly throughout a room. And when you're in your own listening room... you can hear it.

What does all this mean to you?

1. It means that with Jensen Lifestyle speakers, you'll be able to hear all of the frequencies, all of the time, in almost any part of the room. Not just the bass if you're to the side of the speakers. And not just the treble if you're in front of them.

2. Excellent stereo imaging. You hear everything that both speakers are putting out. Almost anywhere in the room. Unlike listeners of other speakers, who can fall victim to gaps in the response characteristics, or "hole-in-the-middle" stereo.

3. Excellent balance. Many other speakers are hot on treble, or bass, or both. But all that really means is that the midrange is often neglected. Jensen sends the all-important midrange throughout a room every bit as much as the highs and lows.

4. Total Energy Response is achieved in Jensen speakers without any loss of efficiency. Which means a moderate output amp or receiver is still all you need for great performance. Not a big super-amp.

What gives Jensen Total Energy Response?

A number of features. First, the extremely wide dispersion of the Lifestyle Tuned Isolation Chamber™ midranges. Especially important are Jensen's two tweeters: a 160° dispersion cone direct radiator, and the 170° dispersion Mylar® Sonodome® tweeter. The sound input to each of these drivers is precisely monitored by Jensen's exclusive Comtrac® crossover network, which insures uniform energy transfer between the woofer, midrange, and tweeter.

For final command of the Jensen Lifestyle's sound, behind-the-grille controls are featured. These controls let you adjust the treble, and in some cases, the midrange, to the characteristics of your individual room.

And with Total Energy Response...there's more music to control.

JENSEN

LIFESTYLE SPEAKER SYSTEMS

For the name and location of your nearest Jensen dealer, write:

Jensen Sound Laboratorones, Division of Pemcor, Inc., 4136 N. United Parkway, Schiller Park, IL 60176.
Here's a tip to make your records last longer.

No matter what system you own, a new Empire phono cartridge is certain to improve its performance, three ways.

One, your records will last longer. Unlike other magnetic cartridges, Empire's moving iron design allows our diamond stylus to float free of its magnets and coils. This imposes much less weight on the record surface and insures longer record life.

Two, you get better separation. The small, hollow iron armature we use allows for a tighter fit in its positioning among the poles.

So, even the most minute movement is accurately reproduced to give you the space and depth of the original recording.

Three, Empire uses 4 poles, 4 coils, and 3 magnets (more than any other cartridge) for better balance and hum rejection.

The end result is great listening. Audition one for yourself or write for our free brochure, "How to Get the Most Out of Your Records".

Cartridges
Empire Scientific Corp.
Garden City, N.Y. 11530

We bring music to life
EMPIRE

CIRCLE 11 ON READER-SERVICE CARD

Comment: Loudspeakers traditionally are full of paradoxes, and the Altec Model 19, among its interesting properties, makes a startling contribution in that department. The system is positively huge, to the point where even a relatively modest adjustment in its position is a job for two reasonably strong people, yet we have encountered few speakers that fade into the background so convincingly when they start to play music. A listener is really hard-pressed to remember that what he is hearing is coming from those big boxes.

The Model 19 is a two-way system consisting of a ported 15-inch woofer that crosses over (at about 1,200 Hz) to a large sectoral horn fed by a driver that incorporates Altec’s new radial phase plug. Although the system contains but two drivers, the crossover network incorporates separate balance controls for both the midrange and high frequencies. According to data taken at the CBS Technology Center, maximum use of the midrange control varies the output level from about 1.6 to 8 kHz by 8 to 10 dB and from there to 15 kHz by 3 to 4 dB. The high frequency control has a maximum effect of about 5 dB from 10 kHz up. Some overlap between the two controls is thus apparent.

Altec rates the system for an impedance of 8 ohms. While this is a reasonable approximation of the average across the band, the curve fluctuates rather widely and dips to 4 ohms at the point where strict interpretation of “nominal impedance” would place that rating. Since this dip occurs at 130 Hz or so, which is a rather energetic part of the musical spectrum, we would advise against running two sets from the same amplifier.

As befits a ported design with a large woofer, the Model 19 is efficient indeed. Fed with a pink noise input of 0 dBW (1 watt), 250 Hz to 6 kHz, it responds with an average sound pressure level that exceeds 88 dB at 1 meter. A 20-dBW (100-watt) sine wave at 300 Hz, which the speaker accepts with no signs of distress, elicits a 114-dB SPL at 1 meter on axis. In the pulse test, the Altec was able to soak up the full 29½-dBW (900-watt) peak output of the test amplifier without clipping the peaks of the waveform, producing at the same time a whopping 123½-dB peak SPL. This is unusually abundant headroom for music signals.

Distortion below 500 Hz is particularly low, the second harmonic content remains below 1% almost to 30 Hz at levels of both 0 dBW and 20 dBW. The third harmonic is almost as well controlled, but it starts to rise at a higher frequency, reaching 1½% just above 40 Hz on both large and small signals. The picture above 500 Hz is less exemplary but still very good. Both the second and third harmonics average right around 1½%—somewhat lower at 0 dBW, higher at 20 dBW. Some of the distortion in the lower midrange takes the form of “spikes” that occupy narrow frequency regions and may well be related to fundamental cancellations that occur near crossover. In any event, these distortion products are far less audible than they would be if they were not so confined in frequency.

Ignoring minor irregularities (on the order of ±2 ½ dB), the average anechoic omnidirectional frequency response (taken in the CBS chamber) is essentially a straight line that slopes off at roughly 2 dB per octave from 6.3 Hz to 12.5 kHz and 15 dB per octave above that point. Dispersion, as indicated by the front-hemisphere and on-axis curves, is very good—so good, in fact, that the two curves are virtually identical over most of the range and just a bit less regular than the omnidirectional curve.
Pulse response shows an initial lag followed by a very sharp rise. This characteristic, which is shared by both drivers, results in a very crisp response to musical transients information.

The sound of the Altec is essentially what one would expect on the basis of the excellent and well-balanced lab data. The bass is somewhat on the robust side, although nicely defined and free of boominess. Since the distortion varies little with level until the input power is exceedingly high, it becomes a part of the basic color of the speaker. Thus loud music (including explosive transients) essentially is reproduced with no sense of strain. Since the power-handling capability is vast and the slopes of the omnidirectional frequency-response curves are gentle, it is very easy to tailor the musical balance to taste via tone controls or equalizers, provided that the amplifier is able to supply whatever extra drive is required. With the balance controls set to optimum, the middles have just a touch of forwardness and the highs are clear and transparent, with a slight mellowness that might be attributed to the rolloff above about 12 kHz.

But probably the most striking characteristic of the Model 19 is its stereo image, which seems three-dimensional to the point of being detached from the speakers. The center of the image seems to extend forward between the two speakers and toward the listener rather than rearward beyond the plane of the speakers as is usually the case. Only at the extreme left and right is there any sense of flattening, and that is slight. About the only grief the Altec 19 gave us in the listening room was in initial setup, and that because its spring-loaded connectors are located on the bottom of the cabinet. (This does, of course, offer long-term cosmetic advantages.)

Considered in toto, the Model 19 is an outstanding loudspeaker. The differences between it and others in the same price class amount more to points of personal preference than of quality. A particular listener may find the minor faults of one preferable to those of another: The only way to tell is to listen—something we can heartily recommend in the case of the Altec 19. Another point not to be overlooked, especially with respect to such a large unit, is its pleasant appearance and impeccable finish.

A Tough-Looking Tuner from Technics


Comment: Although the first impression made by the ST-9030 tuner is one of no-nonsense styling and rack-mountable macho, in its heart of hearts the unit is not that way at all. Its personality is in fact that of an obsequious servant who anticipates your needs and, unbidden, quietly turns its electronic wiles to delivering the best-sounding FM it can. Choice of station is about all this model will require of you.

The design strategy seems to be based on equipping the unit so that it processes FM signals for the best possible sound, which makes it highly vulnerable to any marginal signal conditions, and including automatic devices that let it "defend" itself when necessary. For example, with the normal (Auto) setting of the intermediate-frequency bandwidth control, the Technics is adjusted for a wide bandpass, giving low distortion and best capture ratio. Should an interfering signal intrude or the signal level drop too low, the tuner automatically switches to narrow band for better selectivity.

Similarly, the ST-9030 is normally set to maintain the widest stereo separation it can produce; when the input signal falls below a preset threshold, the high frequencies are blended so as to cancel noise components that are of equal amplitude and opposite phase in the two channels.
Both of these switching functions have a well-calculated overlap between the "on" and "off" thresholds, which makes them reasonably immune to "hunting" (rapid flipping back and forth) in the presence of fluctuating or borderline input signals. The muting function, controlled by the same switch that activates the servo tuning, is not as neat in this respect—audio breakthrough during rapid tuning can be obtrusive.

The servo tuning itself is a joy to use. When a station is close to the optimum tuning point, a relay pulls in with a satisfying little clink and locks tuning to the exact center of the channel. Like other functions, the servo's normal (and defeatable) setting is its automatic mode.

The lab data confirm that this Technics tuner is optimized for good listening. Distortion is about average with the narrow IF bandpass and much better in the wide mode. Capture ratio is likewise adequate with the IF wide and excellent with it narrow, and IM distortion also is very good. The sensitivity curves, which at low signal levels are about average for a fine tuner, seem calculated to make listening enjoyable, rather than to permit the "collecting" (apparently a rectified version of the IF signal) can be routed to an unused preamp input and evaluated by ear to determine when the antenna is getting the best signal.

To help in orienting an antenna for minimum multipath, the usual oscilloscope outputs are provided. In addition, the instruction manual explains how the vertical output (apparently a rectified version of the IF signal) can be used to align the antenna. Like other functions, the servo's normal (and defeatable) setting is its automatic mode.

The ST-9030 is, in sonic terms, one of the more endearing tuners we have encountered. Frequency balance is good even though the response curve falls off a bit in the extreme low bass. The cancellation (rather than filtration) of the 19-kHz stereo pilot confines high-frequency droop to the high side of 15 kHz. (The lab did not confirm the passband to 18 kHz, but in normal broadcasting there is no signal there anyway.) Channel separation (with full-strength signals, of course) is astonishing. Some of the 9030's sonic advantages are achieved by processing signals automatically in ways that other tuners offer as manual options or not at all, which scotches direct comparison. (In particular, the lab had to introduce an interfering signal to keep the tuner in its narrow mode for the appropriate measurements.) Be that as it may, the sound is fine and can be obtained with a minimum of fuss.

Can the Technics ST-9030 justly be called a budget superluster? The fact that the exemplary performance by which this category used to distinguish itself is becoming more commonplace among "normal" tuners makes it difficult to say. In our view the Technics sits on the fast-fading boundary between the two categories, much as it does on that between a "technician's" tuner and a "convenience" model. More important, its performance is the result of an elegant balance between conflicting parameters. Certainly it offers very good value for its price and a uniquely conceived approach to the interface between human being and machine.

Technics ST-9030 Tuner Additional Data

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<tr>
<th>Input in Microvolts</th>
<th>ST-9030 (1)</th>
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<tr>
<td>0.55</td>
<td>1.7</td>
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<tr>
<td>5.5</td>
<td>17</td>
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<tr>
<td>55</td>
<td>550</td>
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<tr>
<td>170</td>
<td>1.7K</td>
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<tr>
<td>11K</td>
<td>5.5K</td>
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<td>55K</td>
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<table>
<thead>
<tr>
<th>FM Sensitivity &amp; Quieting Characteristics</th>
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<tbody>
<tr>
<td>STEREO THRESHOLD</td>
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<tr>
<td>------------------</td>
</tr>
<tr>
<td>24 dB at 90 MHz for -33.5 dB noise &amp; distortion</td>
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<tr>
<td>27% dB at 106 MHz for -37 dB noise &amp; distortion</td>
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<table>
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<tr>
<th>STEREO S/N Ratio</th>
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<table>
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<tr>
<th>Capture ratio</th>
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<tr>
<td>narrow mode</td>
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<table>
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<tr>
<th>Alternate-channel selectivity</th>
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<tr>
<td>narrow mode</td>
<td>87 dB</td>
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<th>S/N Ratio (mono, 65 dBf)</th>
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<thead>
<tr>
<th>THD</th>
<th>Mono</th>
<th>L ch</th>
<th>R ch</th>
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</thead>
<tbody>
<tr>
<td>80 Hz</td>
<td>0.060%</td>
<td>0.060%</td>
<td>0.055%</td>
</tr>
<tr>
<td>1 kHz</td>
<td>0.065%</td>
<td>0.078%</td>
<td>0.075%</td>
</tr>
<tr>
<td>10 kHz</td>
<td>0.6%</td>
<td>1.5%</td>
<td>1.6%</td>
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<table>
<thead>
<tr>
<th>THD, narrow mode</th>
<th>Mono</th>
<th>L ch</th>
<th>R ch</th>
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</thead>
<tbody>
<tr>
<td>80 Hz</td>
<td>0.17%</td>
<td>0.86%</td>
<td>0.84%</td>
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<tr>
<td>1 kHz</td>
<td>0.24%</td>
<td>2.3%</td>
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<table>
<thead>
<tr>
<th>IM distortion</th>
<th>0.01%</th>
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<tbody>
<tr>
<td>19-kHz pilot</td>
<td>-72 dB</td>
</tr>
<tr>
<td>38-kHz subcarrier</td>
<td>-69 dB</td>
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</tbody>
</table>

All data measured in the wideband (normal) mode unless otherwise specified.
Teac's Good-Value A-103


Comment: Despite the yen's steady strengthening in currency markets, good values continue to flow from Japan—the Teac A-103, for example. At a "nationally advertised value of less than $250," it offers a level of performance that is surprisingly advanced for a cassette deck at this price. It also has more than the expected share of features.

The A-103 is a front-loading model with a removable door for better access to the heads, capstan, and pinch roller—cleaning those critical components therefore is a relatively straightforward procedure. The lever array provides the usual mechanical controls along with the separate EJECT that we prefer to the combination STOP/EJECT found on some decks. Also, you can switch directly between modes without going via STOP—except, of course, that you cannot go directly into the recording mode. Mike/line mixing, headphone and output level controls, and memory rewind are absent, but we're impressed with what is there.

Lab tests reveal equally impressive characteristics. The signal-to-noise ratios—frequently the prime limiting factors in a cassette deck—are on a par with the best, and a check of the Dolby action shows that it provides the full 10-dB noise reduction at the upper frequencies. The erasure and crosstalk figures also are excellent, and the sensitivity is adequate for normal operation. The figures for distortion, especially intermodulation, are better than average.

The playback of the standard test tape shows the rising low-frequency response characteristic of almost all modern decks that employ the newer 50-Hz equalization point rather than the "standard" (higher-frequency) turnover to which test tapes still adhere. On the high end, there is a modest falloff at 10 kHz, more apparent on the bench than during our listening tests with commercially recorded tapes. The record/play response curves show the opposite characteristic, with a 3-dB rise between about 5 and 9 kHz that is nearly the same with either TDK AD (NORMAL bias and equalization settings) or TDK SA (in the C60 positions). Fortunately, Dolby does little to accentuate these anomalies, and the overall response is within reasonable limits with or without it.

Mechanically, the A-103 performs well both in the lab and in the listening room. The peak-weighted flutter is much better than specified. Fast-winding times are about average, speed consistency with varied voltage excellent, and absolute speed acceptable at about one-sixth of a semitone sharp for tapes recorded at exactly 1¼ ips. (Tapes both recorded and played on this deck are, of course, exact in pitch.)

In the listening room, the Teac certainly reproduced all we have come to expect from commercially recorded cassettes. More to the point, we were pleasantly surprised at

Teac A-103 Additional Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Speed accuracy (1 1/4 ips, 120 VAC)</td>
<td>1.1% fast</td>
</tr>
<tr>
<td>Speed accuracy (1 1/4 ips, 127 VAC)</td>
<td>1.0% fast</td>
</tr>
<tr>
<td>Speed accuracy (1 1/2 ips, 105 VAC)</td>
<td>1.1% fast</td>
</tr>
<tr>
<td>Speed accuracy (1 1/2 ips, 120 VAC)</td>
<td>0.9% fast</td>
</tr>
<tr>
<td>Speed accuracy (1 1/2 ips, 127 VAC)</td>
<td>0.8% fast</td>
</tr>
<tr>
<td>Wow and flutter</td>
<td></td>
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<tr>
<td>playback</td>
<td>0.05%</td>
</tr>
<tr>
<td>record/play</td>
<td>0.08%</td>
</tr>
<tr>
<td>Rewind time (C-60 cassette)</td>
<td>79 sec</td>
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<tr>
<td>Fast-forward time (same cassette)</td>
<td>82 sec</td>
</tr>
<tr>
<td>S/N ratio (re 0 VU, Dolby off, CBS weighted)</td>
<td></td>
</tr>
<tr>
<td>playback</td>
<td>L ch: 58 dB</td>
</tr>
<tr>
<td>record/play</td>
<td>L ch: 56 dB</td>
</tr>
<tr>
<td>Erasure (333 Hz at normal level)</td>
<td>71 dB</td>
</tr>
<tr>
<td>Crosstalk (at 333 Hz)</td>
<td>48 dB</td>
</tr>
<tr>
<td>record left, play right</td>
<td></td>
</tr>
<tr>
<td>record right, play left</td>
<td></td>
</tr>
<tr>
<td>Sensitivity (re DIN 0 VU)</td>
<td></td>
</tr>
<tr>
<td>line input</td>
<td>L ch: 115 mV</td>
</tr>
<tr>
<td>mike input</td>
<td>L ch: 0.57 mV</td>
</tr>
<tr>
<td>Meter action (re DIN 0 VU)</td>
<td></td>
</tr>
<tr>
<td>L ch: 5% dB high</td>
<td>R ch: 6% dB high</td>
</tr>
<tr>
<td>Maximum output (re DIN 0 VU)</td>
<td>L ch: 0.7 V</td>
</tr>
<tr>
<td></td>
<td>R ch: 0.7 V</td>
</tr>
</tbody>
</table>
the recording quality that we were able to achieve. The meters are the conventional averaging type calibrated from +3 to −20 VU. Though they seem a bit underdamped, it is relatively easy to attain good recording levels with them. This, we suspect, results from the generous safety margin in their calibration (the zero indication corresponds to a recording level 6 dB below DIN 0) and from the exceptionally low noise floor of the A-103. As long as we didn’t let the meters bounce far into the red, we were able to get quiet, low-distortion copies of discs that we selected specifically for the demands they make on a cassette deck. And the tonal balance of the recordings proves very good. It is a trifle bright on the high end, but the brightness is quite welcome compared with the dull, overloaded copies we often have made from these discs.

**Citation 19 Gives a “Big 100 Watts”**

The Equipment: Citation 19, a stereo power amplifier, in metal case. Dimensions: 16 by 4¾ inches (front panel); 5½ inches high overall; 13¾ inches deep plus clearance for controls. Price: $495. Warranty: “limited,” two years parts and labor, shipping paid one way. Manufacturer: Harman Kardon, 55 Ames Court, Plainview, N.Y. 11803.

Comment: Because designers know more now (and are learning all the time) about how to make amplifiers perform well when reproducing music waveforms, the state of the art is definitely rising. Unfortunately, the art of writing specs that define the musical capabilities of amplifiers has stagnated in a way that makes it possible for two units with similar ratings to sound quite different. We are happy to say that the Citation 19’s performance exceeds considerably what might be expected on the basis of its specs.

According to the CBS Technology Center, the Citation meets its total harmonic distortion ratings handily at its full 20-dBW (100-watt) output as well as at 10 dBW (10 watts) and 0 dBW (1 watt). As is often the case, the low-level distortion is slightly higher than that of the midrange, but the spurious components are within 2 or 3 dB of the amplifier’s noise floor. In the intermodulation test, the amplifier proves itself capable of exceeding rated power into
4, 8, and 16-ohm loads without running afoul of the specified 0.08% distortion level. Frequency response is within ± 1 dB from below 10 Hz to beyond 100 kHz, and the excellent square-wave reproduction confirms this. Damping factor, at 113 for an 8-ohm load, surpasses any normal requirement. Signal-to-noise ratio is an excellent 100 dB with respect to rated output.

So much for steady-state tests, for here the Citation 19 performs much as would any good-quality model of similar ratings. With music—that is to say, under dynamic conditions—the amp really begins to strut its stuff. Clipping is evident on an oscilloscope only when it is delivering peak power on the order of 300 watts. This represents headroom of close to 5 dB above rated output and seems an exceptionally generous margin. Clipping is always unpleasant to hear, of course, but the amplifier does not compound the problem with gratuitous misbehavior in addition to the overload. On the contrary, its recovery is very graceful. And the sound does not degrade noticeably as the peaks in the program material approach the limit.

All of this enables the Citation 19 to deliver music that sounds clean at levels beyond what one would expect of a "100-watt" amplifier. Noise is well out of the way; even with very efficient speakers, the listening ear must almost touch the tweeter before any hiss becomes audible. The front-panel display, which the instructions tell you how to adjust for speakers of different impedances, is accurate and quick. When the 0 dB light is set for full power and stays on for more than a fraction of a second, the amp is probably being pushed too hard—though it tolerates this with little complaint.

The Citation offers two minor annoyances along with its extraordinary capabilities: It pops slightly when turned on and off, and the output binding posts (suitable for bared or tinned wires, spade lugs, banana plugs or dual banana plugs) are recessed between the heat sinks on the back panel, making them a little hard to reach. On the plus side, however, the unit is equipped with a back-panel switch for strapping the two channels together to double the output power into 8 or 16 ohms.

All things considered, the Model 19 fits squarely into the Citation tradition of wide bandwidth, low distortion, and good damping. Most important, the amp delivers its best where it really counts—on music.
Ortofon's M-20FL Super: A Sound that Appeals


Comment: The introduction of a new cartridge by a major manufacturer is itself enough to pique our curiosity. When that cartridge represents the top of the line, reviewing it promises to be a pleasurable experience—and so it is with the Ortofon M-20FL Super.

This model and its newly introduced brother, the M-20E, represent the pinnacle of the Ortofon VMS line. (The VMS—for Variable Magnetic Shunt—distinguishes Ortofon's "magnetic" cartridge line from its moving-coil pickups.) The two cartridges are similar, the major difference being in stylus geometry and compliance. The M-20FL sports a Fine-Line stylus—yet another Shibata variant—while the M-20E uses elliptical geometry. The M-20FL has a lower compliance and tracks at a higher force than its slightly less expensive brother.

Actually, it remains a very compliant pickup, although without test data we'll not quibble that the M-20E is even more so. In the SME 3009 arm that CBS Technology Center uses for its testing, the system resonance with the M-20FL occurs at 5.5 Hz, suggesting that a less massive arm would be a better choice. (The pickup itself is, at 5.25 grams, relatively light.) Still, we had no difficulty auditioning the cartridge with another tone arm of at least equal mass.

Although the recommended vertical tracking force is 15 millinewtons (1.5 grams)—a force that we and CBS used for all tests and auditions—the Ortofon cartridge is able to negotiate the standard torture course at a VTF of only half that. The recommended shunt capacitance is on the high side (400 picofarads); the recommended load resistance is the standard 47,000 ohms. Too late for lab or listening tests, Ortofon informed us that the M-20FL Super, M-20E, and VMS-20E will be supplied with a cartridge capacitor of 210 picofarads (CAP-210) bridged across the output pins of each channel to make proper loading easier. The device is removable should it prove unnecessary in a particular installation and apparently can be retrofitted to any of these pickups or to the Mk. II models of the F and FF series.

Each M-20FL Super is accompanied by its own calibration data. CBS tests indicate that, with the exception of channel separation—a test in which measurements are hard to duplicate precisely—our sample exceeded its calibration data. The sensitivity is exceptionally high for a top-of-the-line cartridge (1.63 millivolts per centimeter per second), and the channel balance at 1 kHz is superb (within 1/5 dB).

The frequency response is beautifully flat (within ±1/2 dB) from 20 Hz to 10 kHz, with a separation that is almost consistently better than 25 dB over the same span and better than 30 dB over much of it. Above 10 kHz, the response rises (more on the left channel than on the right) and the separation diminishes, as is to be expected. Yet, there is still more than 18 dB of separation at 15 kHz. The square-wave test exciting a single cycle of overshoot, followed by ringing that is quickly damped out.

The second harmonic distortion is very low (1% or less at 1 kHz), as is the IM distortion—0.6% in the lateral mode and 1.6% in the vertical. The latter figure is especially good for a phono pickup. The vertical tracking angle is 20 degrees, the customary (and specified), if not "standard," value. The Fine-Line stylus displays excellent polish and alignment under the CBS microscope. We would not expect the 15 millinewton tracking force to increase record wear significantly, if at all, considering the larger area of contact that the stylus geometry offers. At the recommended force, it passes the CBS tracking test excellently.

The sound of the M-20FL is appealing. The bass is sonorous but tight, a characteristic that is very evident in the lower octaves of the bass viol and on drums. The sound has warmth but at the same time provides a sense of presence often lacking in "warm" pickups. The stereo imaging is both wide and deep—which, we suspect, adds to the
warmth of the sound without detracting from its up-close presence. We found a slight instability in the exact center image—noticeable, for example, on a solo violin recording—in which the upper partials seemed to favor the left channel. Brass reproduction is very brilliant (perhaps a trifle too much so for some tastes), no doubt because of the raised response at the higher frequencies. The same characteristic adds an appealing brilliance to the cymbals and a less appealing edge to sopranos. The distinction between instruments is very well drawn, the sound having a clarity that cartridges with higher distortion usually lack.

Like many audio components, the Ortofon M-20FL offers a series of tradeoffs in performance. Its low-frequency tracking capability is excellent; high-frequency tracking is nearly as good. Most important, to our way of thinking, is the fact that the general sound and stereo imaging of this pickup are right there among the best—and at what is fast becoming a modest price for a premium pickup. On the vast majority of discs, this Ortofon will unveil the music in a truly righteous fashion.

Soundcraftsmen Integrates Preamp and Equalizer


**Comment:** Here is a product that raises the question: Are the usual preamp response-altering controls really redundant when combined with an equalizer? Tone controls, filters, and even loudness contours can be closely approximated by manipulating the sliders of an equalizer. In the PE-2217, Soundcraftsmen offers a combination preamp/equalizer in which all frequency-sensitive adjustments are made on its ten octave-band controls.

The PE-2217 includes all the normal preamp switching and connections—even dual headphone outputs—and will carry the signal straight through from a phono cartridge to the input of a power amp. Dubbing between tape transports can be in either direction and can take place while you are listening to another program source. Note that the second deck may be connected either to the usual pin jacks on the back panel or via stereo phone jacks on the front panel.

There are, in fact, a number of additional features that will be welcomed by recordists. In particular, the equalization can be switched in either ahead of the decks (to correct shortcomings in the original signal and allow recording of the result) or in the line output (to equalize playback of any source—and for use as a speaker equalizer). The mode switching includes separate right- and left-channel mono buttons (press both for L + R mono) so that individual tracks can be played even if the (stereo) deck itself does not provide switching for the purpose. This last feature is not uncommon among the better preamps, but pre/post equalization switching is all too rare.

In addition to the typical balance control (which, be it noted, lacks a center detent), there are a pair of ZERO-GAIN sliders and four indicators to facilitate adjustment. As Soundcraftsmen points out in the owner's manual, an equalizer is not meant to be an amplifier: Input and output signal levels should be approximately the same at least when averaged over the audio band. Obviously, the frequency balance will be affected by the control setting, but equalization should leave total energy relatively unchanged by the process. This, incidentally, will allow you to determine the effect of the equalizer with an A/B comparison. Furthermore, the dynamic range of the equalizer should be optimized if it is not asked to be a broadband amplifier as well. To obtain an average unity gain condition, you adjust the ZERO-GAIN controls so as to match the brightness of the two indicator lights for each channel. Program material—preferably wideband pink noise—must be present for this setup. A supplied test record contains not only appropriate wideband pink noise, but ten octave bands.

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### Ortofon M-20FL Super Pickup Additional Data

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Maximum Tracking Level (15 millinewtons VTF; re RIAA 0 VU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 Hz</td>
<td>+18 dB</td>
</tr>
<tr>
<td>1 kHz</td>
<td>+9 dB</td>
</tr>
<tr>
<td>10-20 kHz</td>
<td>-5 dB</td>
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bands of noise recorded separately on each channel as well. The record thus provides a convenient means of setting up the unit as a room or speaker equalizer. While the left channel cycles through the ten octave bands, the right channel contains a reference noise band centered on 1 kHz. Each octave-band slider is adjusted by ear until the loudness of the noise band matches the reference. (The reference level shifts for each octave in accordance with the Fletcher-Munson curve so that such “ear matching” works reasonably well in establishing the correct balance.) If you have a sound level meter, the record can be used as a signal source and each slider adjusted for uniform measured sound level at the listening position—and the reference signal ignored. The equalization procedure should be repeated several times, since the sliders interact somewhat. Once your “basic room equalization” settings have been determined, a template can be made (with materials supplied by Soundcraftsmen) to aid in returning to them quickly. Then the sliders can be manipulated about these “normal” settings to achieve whatever tonal alterations are desired for a particular program.

At the lab, the PE-2217 acquitted itself well. The maximum output level is more than adequate for any power amp, and the THD—even with intentionally “difficult” setting of the equalization sliders—is low enough not to cause any concern. IM is a bit higher but reasonably low for such a complex device. The frequency response is exceptionally flat for an equalizer and results in excellent square-wave response at both test frequencies. Each octave-band slider provides close to the ±12 dB spread claimed for the unit. Furthermore, the shape of the curve for each octave is pretty much the same, and the various center frequencies are quite accurately spaced.

The phono equalization is excellent. The phono sensitivity is, if anything, on the high side; the overload point is a bit low but should handle most high-quality cartridges. The sensitivity of the high-level inputs is typical of a preamp, and the signal-to-noise ratio of all inputs is very good; that of the phono section is equivalent to 83 dB referenced to a 10-millivolt input at 1 kHz.

With the help of the test record, and with our ears as a meter, we found it relatively simple to adjust the equalizer to flatten out our listening room's response. Once we had done so, there was a definite improvement in tonal balance. As usual, the improvement is greatest in the lower registers where speakers (and rooms) exhibit their greatest eccentricities. The smoothed bass response of our system was clearly apparent even with casual listening to bass viols, organ, and such.

If we have any reservation about the PE-2217, it is that with our pickups the sound of the phono section—while certainly good—does not have quite the extra midrange clarity and definition that we have commented on in reviewing some of the separate preamps now on the market. This is a subject that we approach with diffidence since some preamps interact with some pickups in unpredictable ways, and we obviously can't try all conceivable combinations. Therefore, we urge careful audition and A/B testing (listen, in particular, to the sound of the upper strings) by the prospective purchaser. The preamp is, in any event, quiet and clean by most standards. Our sample of the test record seemed unduly infested with ticks and pops, and the power cord seemed a bit lightweight for the 1,000-watt (total) rating of the accessory outlets. Presumably, however, Soundcraftsmen's rating means what it says, and of course the test record is not meant for listening, so neither of these points should deter the potential buyer.

And the PE-2217 should attract many. Incorporating the graphic equalizer within the preamp reduces the amount of cabling and circuitry through which the signal must flow. It also places the entire switching logic in the lap of the designer—a desideratum whose import is easily underestimated. It allows optimum control of noise and distortion and the greatest possible functional utility of the switching itself. Soundcraftsmen has done an excellent job of achieving such utility while avoiding the often confusing and needlessly redundant switching of separates. In short, the PE-2217 is a well thought-out and capable unit.

For more reports on equipment, see BACKBEAT.
Things to Keep Records Quiet

Photos by Daniel McCoy
A selected—and selective—bestiary of disc-care accessories

by Edward J. Foster

Among the fauna, so to speak, of high fidelity, record-care accessories might be compared to the insects: They're relatively small, they're exceedingly numerous, and telling the 'good bugs' from the ones that will sting sometimes requires the services of an expert. And the 'good bugs' serve as ecological agents whose importance to record survival is difficult to overestimate, while the look-alikes may be no better than pests. We are only beginning to understand the workings of this microcosm, but—nothing daunted—we plan, in this article, to let you in on our observations of it.

He warned that it is one in which mutants occur with a rapidity unknown in nature, forestalling definitive classification of species and genus; we will simply be describing the specimens in our collection and sketching in the broader lines of classification as they appear at the moment.

Successful products are quickly imitated. For this reason, the many gizmos in our collection fall into relatively few categories. By far the most populous group is the handheld velvet pad to be used either with or without some special fluid. Such solutions often are acclaimed for their ability to deep-clean a record, deposit an antistatic coating, and leave no residue. (How the latter two attributes can exist simultaneously stymies our logical instincts.) Some of the products are specifically designed to leave a lubricating film.

Besides the manual velvet-pad devices, several similar items swap the velvet for a fine-bristle brush—or may supplement the velvet for a double whammy. And the newer types collect the dust and lint onto an adhesive roller.

To loosen the grip that a statically charged record exerts on dust and lint, there are several ionization guns on the market. They use a piezoelectric high-voltage generator, charging a sharply pointed needle. The electrostatic field at the tip of the needle "ionizes" (unbalances the electric charge of) the air molecules, which then conduct away the record's static charge.

For really dirty records, there are several soaking-and-scrub-em approaches and at least one foaming cleanser. And of course, the vacuum-cleaner concept has not been totally ignored.

All of these devices clean the record before it is played. For automatic cleaning during play, a variety of auxiliary devices resembling tone arms (intended to "preplay" the disc and wipe it clean) have appeared. Some of these also are equipped to drain off any static charge that builds up during the listening session. Antistatic mats serve the same purpose. If your stylus should develop a case of the cruds, there are all sorts of cleaning fluids and brushes to strip the dirt from the diamond.

With Net and Magnifier

It would require virtually unlimited time and resources to perform a series of tests sufficient to judge conclusively the practical effectiveness of the many available products. So we attacked the problem in a roundabout way, deducing—rather than measuring—the effectiveness in most respects.

We checked the residue left by each cleaning fluid by dropping some of it onto a clean glass microscope slide. After it had dried, we inspected it visually, noting the amount of residue and its nature: dry, sticky, or oily. (If a residue is left, it would seem best that it have no tendency to hold dust deposits on the disc surface.) We judge any claims that the fluids we checked had permanent antistatic effects to be hyperbole.

Velvet pads and brushes were examined under a 25X microscope to determine the relative size and uniformity of the bristles or pile, and whether they were separate or intertwined. We also determined, both by microscopic observation and by feel, whether the pile had a preferred orientation. Velvet pile generally feels smoother in one direction, that in which it tends to lie. It is logical to assume that passing the pad along the record grooves in the "rough" direction would direct the fibers into the groove and aid in dislodging embedded dirt.

Antistatic guns were evaluated comparatively by determining how brightly they would cause a neon bulb to flash, how much ozone was generated in the nozzle, and how well they discharged a record. The latter is what really counts and fortunately is relatively easy to determine. We charged a disc by rubbing it briskly with a rabbit fur, checked its level of charge with an electroscope, zapped it with the gun, and rechecked the charge level. All guns passed with flying colors.

Our Collection

Our sampling is, once again, far from complete. Some species are hard to trace to their breeding grounds; many record-care products are marketed by companies other than their manufacturers and hence may show up from more than one source—and at more than one price. (Dealer practice also varies; the same device may appear as both a come-on bargain and as a premium accessory.) Distribution is sometimes irregular, and not all distributors would send us samples for evaluation; nor, surely, did we manage to reach all of them. As the company-by-company listing that follows makes plain, our collection already was so large as
to be barely wieldy. But here is what we found with the samples at our disposal.

- **Audio-Technica.** The AT-6008 Rotary Disc Cleaner ($9.95) is a 3¼-inch-diameter plush velvet pad mounted in a holder with a center handle knob. Since the pad rotates with respect to the knob, the velvet pile remains aligned with the groove as it sweeps around the disc, thus reducing the possibility of redepositing the dirt. The pile is short, is relatively matted, and has no apparent wale or preferred direction.

The AT-6008 Record Cleaning Solution packed with the cleaner is applied with a delicate eyedropper (also included) through a hole in the handle. It permeates the pad in a reasonably uniform manner, leaving the pad barely damp. Its ability to discharge a record is deemed good. The solution left a slightly oily residue. (The kit also contains a holder for the cleaner and a stiff-bristle brush with which to clean the velvet.)

The PDQ System ($18.95) consists of the AT-6002 Grounded-Brush Autocleanica ($9.95), the AT-6010 Manual Disc Cleaner ($5.95)—both of which also use AT-608 fluid—and the AT-607 Stylus Cleaner ($2.95).

The AT-6002 Autocleanica, a tone-arm-type automatic disc cleaner, has a velvet plush roller and a soft, electrically conductive brush. The well-finished metal arm adjusts to the desired height and has an integral armrest. The base attaches to the turntable top plate via a double-sided adhesive ring, and the arm is grounded to a metallic part of the frame to drain off the static charge.

The cleaning fluid is injected into an internal storage reservoir with the supplied eyedropper and, from there, metered to a roller made of essentially the same material as that in the AT-6008. The brush has soft, reasonably separate bristles.

The AT-6010 record cleaner is a rectangular velvet pad (1 by 3½ inches) with a hollow handle into which the cleaning liquid is applied. Fluid spreads over the surface of the pad unevenly, with wet spots apparent. The manufacturer provides a holder for the pad (and double-side tape to mount it) along with a stiff foam pad to clean the velvet.

The AT-607 Stylus Cleaner mixture includes isopropyl alcohol and leaves virtually no residue. It comes in a nail-polish-style bottle with a brush in the cap.

- **Audiotex Laboratories.** The Total Concept ($12.95) kit comprises a foaming record cleaner (Record Basic) and a less aggressive cleanser (Record Plus) that also contains a silicone lubricant. Each is packaged in a 7-ounce aerosol can. Also included are a half-dozen lintless wiping towels (12 by 17 inches), a velvet plush pad (3½ by 1½ inches), and a bristle brush for cleaning the velvet. The pad has a short, waleless pile with no preferred orientation. The heavy-duty Record Basic left a substantial but nonoily residue on our microscope slide, while Record Plus left a slight but very oily residue. Audiotex recommends that Record Plus always be used after Record Basic.

- **Ball Corporation.** Sound Guard Record Cleaner Kit ($7.99) consists of a 2-ounce bottle of record-cleaning solution with a pump spray top, a velvet pad (1¾ by 4¾ inches), a sponge, and a grooming pad. You apply the liquid to the velvet pad and wipe lightly soiled records. Badly soiled discs require direct application, followed by a rinse with the wet sponge and a buffing with the pad. In our tests, the fluid left practically no residue. The velvet pile is very short and random in orientation.

When we followed the "light cleaning" directions, the system did a good job of discharging static.

The Sound Guard Record Preservation Kit ($7.99) supplies a bottle of dry lubricant, intended to reduce wear (we attempted no substantiation of this claim), in a liquid carrier. The solution is sprayed onto the surface of the record, which is then buffed with the velvet pad. Ball claims that the 2 ounces of solution provided should be enough to treat both sides of thirty to thirty-five LPs and that the lubricating properties will last through approximately twenty-five plays. The slight residue will cause no degradation in frequency response, judging from tests I made earlier at Diversified Science Laboratories. Applied according to directions, the solution reduces static charge reasonably effectively; after fifteen minutes, the charge is reduced even further.

The velvet pad supplied with this kit looks similar to that with the Sound Guard cleaner, but the pile actually differs greatly. There is a relatively tight wale with reasonably separate fibers that have a preferred orientation along the rib, which is determined by touch.

- **Bib.** The Bib Anti-Static Record Care Kit ($24.95) contains a Groov-Stat ionization gun, an electro-
scope, and a Bib Record Dust Off. The electroscope detects static. When brought near a charged record, the two metal foils in the cylinder will separate; near a neutral disc, they remain together. It can also be used to check the ionization gun. As far as we know, the electroscope is unique to the Bib kit; in any event, it is very handy. The gun itself operates easily and effectively. The needle is reasonably well protected in the barrel of the gun, although a small finger could still reach inside and get pricked.

The Dust Off is a velvet pad (1 1/4 by 5 1/4 inches) that has a relatively deep pile with a preferred direction along the ribs of the wale. Although the instructions don't say so, the Bib Dust Off appears to be more effective when used in one direction than when used in the other. The velvet pad rests in a plastic housing with a foam pad on the base. The velvet can be made barely damp by bringing it into contact with the moistened foam. No fluid is included.

- **Decca.** The Decca Record Brush ($14.95) consists of two 4-inch rows of extremely fine conductive bristles—a million of them all told, according to the literature. (We didn't count.) No fluids are to be used with the brush. A single light pass of the brush totally discharged our record and wiped it clean of surface lint and dust. It is not designed to do much with fingerprints or other greasy residues.

The "tone arm" version of the record brush is the Decca Record Cleaner. It is mounted to the baseboard by an adhesive pad and grounded to the turntable frame. The height of the arm is roughly adjustable via an assortment of spacer blocks. A magnet holds the arm in its rest position.

- **Dishwasher.** This line of record-care products includes the D-3 Dishwasher System, the Zerostat ionization gun, the D'Stat-II antistatic mat, and the SC-1 Stylus Cleaner.

The D-3 System ($15) consists of a wide-wale fabric mounted on a handsome burled walnut handle. The hollow handle stores a 1-ounce bottle of fluid, which left a barely apparent residue. The pile of the fabric is quite stiff, quite long, and definitely oriented in one direction. (The direction in which the pile is to be used is indicated by an arrow on the handle.) Microscopic examination reveals that the individual fibers are uniform and well separated, so they are likely to reach well into the groove to pry out dirt. The wide wale of the fabric leaves plenty of room to collect the dust so it isn't just rearranged on the record.

The fluid is applied in a bead along the leading edge of the fabric pad, which presses against the rotating disc for 5 to 10 seconds. Then the brush is rocked so that the trailing edge contacts the record to dry it and collect the debris. This procedure also relaxes the static charge.

The D'Stat II antistatic mat ($7.95) is a thin conductive-fiber turntable pad meant to neutralize the static charge of a disc resting on it in playing position. In use, we found it reasonably effective in diminishing the charge on the upper surface of the record.

The Discwasher Zerostat ($20) was the first of the ionization guns to come onto the market. It is the only one tested with a mechanical means of protecting the piezoelectric generator from over stress. In practice, the Zerostat completely eliminates surface charge. The pointed needle that ionizes the air is reasonably well protected from little fingers.

The SC-1 Stylus Cleaner ($6.00) is composed of an extremely dense mass of fine bristles that have been sheared to a smooth surface. A few drops of D-3 fluid are applied to the brush, which is then wiped against the stylus—moving from the rear of the cartridge to the front. A magnifying mirror on the reverse side of the brush aids in cartridge alignment.

- **Empire Scientific.** Among the items in the Audio Groome line are the Static Eliminator ($39.95), an ionization gun with two barrels, and the Dust Eliminator ($19.95)—a cleaning brush with conductive carbon-fiber bristles, similar in construction to the Decca brush. (The claimed bristle count is more modest—just "thousands"). A light pass of the Dust Eliminator removes surface dust from a disc and markedly reduces static as well.

The Static Eliminator has its sharp points reasonably well protected from finger contact, although it is just possible to touch the lower one (and receive a shock). Like its competitors, it is very effective in neutralizing static. (With normally charged discs, the extra barrel somewhat suggests overkill, but that's better than underkill.)

- **Fidelitone.** Fidelitone's Record Conditioner with Purifier Fluid ($19.95) resembles the Discwasher system in appearance and operation. It, too, sports a hollow wooden handle (in this case, cherry) that holds a ½-ounce bottle of fluid. When not in use, the Conditioner rests in a wooden holder. On our microscope slide test, the Fidelitone mixture left a very slight but oily residue. The pile, which has a relatively wide wale and a preferred orientation (indicated by an arrow on the handle), is somewhat random in length and the fibers are not well separated. Our sample's pile does not run parallel to the handle and so is hard to orient well with respect to the grooves. The brush also tends to apply excess fluid. The system discharges static effectively.

The Fidelicare Spin & Clean ($19.95) is meant to wash very dirty records. The record is suspended vertically on adjustable rollers so that the grooves are immersed in a tank of cleaning solution formulated from tap water and the Fidelicare Record
Wash. As the record rotates in the tank, brushes force the solution into the grooves to lift out embedded dirt. Our tests indicate that, although the fluid leaves a noticeable (nonoily) residue, it does a better than average job.

**Le-Bo.** The Stat-Brush ($24.95) is an ionization gun but with a difference. The ionized air is generated within a large cavity surrounded by a velvet pad. Dust released by the discharge is swept up by the brush and collected by the pile. The brush bristles appear relatively coarse under the microscope, and the pile is random in character. The Stat-Brush does an excellent job of neutralizing a charged record, but the ionization needle is unprotected in the large cavity—a definite safety hazard in our opinion.

**Memorex.** The tape company has two products in the disc field: the Record Cleaner ($2.59) and the Record Care Kit ($5.49). The major ingredient of each is a velvet plush preening rod 4 inches long and ¾ inch in diameter. The pile is uniform in length and random in orientation. It is not as convenient as using the pad-with-handle types. The simple Record Cleaner may be used dry or moistened slightly with water. The Record Care Kit provides a bottle of fluid and a brush with which to clean the preener. The fluid has an isopropyl alcohol base and leaves very little residue.

Memorex advises weekly use of the cleaning solution to dampen the foam pad on which the cleaner rests and keeping the lid closed between uses to maintain humidity. Since isopropyl alcohol evaporates very quickly and the case is hardly airtight, the device generally turns out to be dry.

**Radio Shack.** The Realistic label offers something in just about every category of record-care product from clip-on record brushes (42-1073, 39c, without arm lift; 42-1072, 79c, with one) to the Discotron ionization gun (42-109, $19.95). There are also replacement inner record sleeves both for 45s and LP's (42-104, $1.49 for ten; 42-132, $1.99 for ten, respectively) as well as a turntable-mounted brush (42-746, $1.19) to capture the dust from a stylus as it passes by.

Of the record-cleaning aids, the least expensive is a sponge cleaning pad (42-121, 88c). Dampered with water, it does wipe the record clean of surface litter and discharge the static. It also leaves it wet—which is not desirable.

Stepping up the line, there is a Record Cleaning Kit (42-1085, $1.98), consisting of a bottle of antistatic fluid, a furry "powder-puff" pad, a clip-on tone-arm brush, and a stiff brush (presumably to clean the pad). The fluid, which left only a slight residue, is effective in neutralizing (but not in preventing) static buildup. It also left the disc wet and sprinkled with fur.

For a penny more, you can get a round rod-type disc cleaner (42-135), evidently meant for dry use. The wale is relatively wide but not oriented to capture debris, nor is there a preferred direction to the pile.

The 78/45/LP Record Cleaner (42-130, $2.99) offers a better approach. This rollerlike device has a convenient hollow handle into which a few drops of water are added to humidify the pile; a tight plastic cover helps retain the moisture. The damp pile does a good job of discharging the disc and picking up and holding lint and dust. (Because of the relatively wide, coarse wale and the fiber orientation—or lack of it—it will not do the job very well when dry.) The record may emerge from this treatment slightly damp but certainly not wet.

Radio Shack's Hydro Stor Cylinder (42-101, $5.95) and Hydro Stor Professional (42-102, $9.95) use the same record-cleaning fluid—one that we find leaves a relatively substantial oily residue. Each Hydro Stor device has a hollow core filled with glass beads that "trap" the fluid. The method is less than successful; each of our samples leaks as soon as it is loaded. The Cylinder model has a round, roller-shaped plush pad stored in a plastic cylinder. The Professional system has a wooden-handled rectangular pad. Each wets the record excessively but effectively neutralizes static. The plush pile has a relatively tight wale with no preferred orientation.

The Discotron ionization gun proves much more successful. Its two ionization needles are well shielded from intruding fingers, and it does an excellent job of neutralizing static.

Radio Shack offers two tone-arm-style cleaners, the Discoclean (42-107, $9.95) and the Discosol (42-106, $19.95). Each has a coarse, long-haired roller to collect debris. The fibers are relatively soft and appear unlikely to pick up any but surface lint and dust. The Discoclean has a bristle brush in...
addition to the roller, while the Discostat features a group of fine copper wires to discharge the surface of the record. The charge is carried down the length of the arm and grounded to the turntable frame. We harbor some reservations about tracing a groove with a mass of copper wires. Each arm mounts on the base via a double-sided adhesive pad, and the Discostat design includes an integral arm rest absent from the Discoclean.

The cleaning fluid used with the Realistic Phonocartridge Maintenance Kit (42-108, $5.99) has an isopropyl alcohol base, and left little residue. An applicator brush, tweezers, a jeweler's screwdriver, and a stylus microscope complete the kit. The microscope—though somewhat beyond the scope of this survey—does not have good enough optical quality to be very useful.

An alternate Stylus Cleaning Fluid and Brush (42-1074, $1.39) also is available. The isopropyl alcohol liquid again left virtually no residue.

- **Recoton.** The company offers us two record-cleaning products: Clean Sound ($15), a half-cylinder velvet pad, and Magic Twins ($7.49), a four-sided rectangular velvet pad. Each uses an entirely different cleaning solution. That with Clean Sound left a relatively large, oily residue; the Magic Twins solution, largely isopropyl alcohol, left the least residue of any liquid we tested.

The fibers of the Clean Sound pad are reasonably well separated and have a definite orientation, determined by feel. The pile on our sample does not run parallel with the sides of the holder. The Magic Twins pad has a soft, short pile with no particular grain orientation. Each is effective in neutralizing static.

- **Robins.** Included in its extensive accessory line is the Stylee phonostylus and cartridge maintenance kit (41-039, $10), essentially the same as the Radio Shack Phonocartridge Maintenance Kit. The stylus microscope sells separately at $3.75.

- **Rotel.** There are four record-care accessories in the line, none of which relies on special cleaning fluids. The RK-66 ($3.50) is a rectangular velvet pad, used dry to preen the record. The RK-77W ($7.00), a similar, somewhat larger, unit designed for barely damp operation, is kept humid by moistening a foam pad in the bottom of the holder. A brush, integral with the holder, cleans the RK-77W pad: a separate piece of hard foam serves the same purpose for the RK-66. The RK-77W is effective in discharging a disc, while the RK-66, being dry, is not.

The RK-88A ($15) is a tone-arm-style automatic cleaner having a soft-bristle brush and velvet roller. You can easily adjust the arm height, and (since only the roller head pivots vertically) no arm rest is required. The velvet pad of all three devices exhibits a tight, random shear and appears matted under the microscope.

The RK-100 Rolling Cleaner ($16) employs an elastomeric sticky roller to pick off surface dust. We saw no traces of residue when the roller was applied to a microscope slide. The roller effectively removes surface lint but does nothing to remove static. Accordingly, the record tends to attract new debris as soon as it has been cleaned unless an ion gun is used as well.

- **Sonic Research.** The Pixoff ($17.50) also is an adhesive roller, with a sticky tape similar in appearance to that of double-sided masking tape. When its surface becomes contaminated, the tape is stripped off to reveal a fresh surface. A roll contains five feet of tape, and replacements are available. The Pixoff is effective at removing surface litter. It does not reduce static charge, however, so the litter soon reaccumulates; again, an ion gun will help. No traces of adhesive remain behind. After each use, a vinyl strip must be wrapped around the roller to prevent contamination during storage—perhaps a minor nuisance.

- **Sound Guard.** See Ball Corporation.

- **Vac-O-Rec.** To use the Model 100 ($44.95), the disc is placed vertically in a slot and spun by a motor. Brushes at the mouth of the slot sweep the surface free of dust, which is sucked up by a vacuum cleaner. The unit appears to be designed for 12-inch LPs.

Vac-O-Rec is adequate for removing surface litter. Its drawback, like that of several other devices we tried, is that it doesn't lower static; and in fact in a dry atmosphere, it charges a previously neutral disc. A new model (1100) was not available in time for the tests.

Similarly, the Duotone Groovac ($89.95), a "pre-playing" arm that vacuums a disc as it plays, did not come to our attention in time to be included.

- **Watts.** This line of record-care products is one of the widest and oldest in the industry. Watts take a systems approach to record care by offering a variety of related products.

For a very dirty record, there is the Record Wash Brush ($5.50)—3¼ inches long with an array of fine nylon bristles in a wooden holder. The bristles are sufficiently stiff, small, and separate to reach deep into the groove. The brush is meant to be used with a solution of liquid detergent and water.

For less contaminated discs (and for drying a disc after washing), the Parastat ($14.95) employs a record-washing brush sandwiched between two velvet pads. The bristles extend slightly above the surface of the pads to penetrate the groove and dislodge dirt. The velvet is relatively smooth and random in orientation but we deem it adequate to collect and hold the dirt.
For automatic cleaning of the record during play, Watts offers the venerable Dust Bug ($7.95), the progenitor of the tone-arm type. A simple plastic arm, pivoted from an adjustable stand, supports a long, stiff-fibered pile roller. A nylon-bristle brush rides ahead of the roller to loosen the dirt. Two bases are provided—one with a suction-cup mount, the other with an adhesive mount.

To clean the preening pads and the Dust Bug rollers, there is the Humid Mop ($4.50) with Anti-Static Fluid ($3.00). The former consists of an assortment of foam sponges forced into a perforated plastic tube, through which the sponge bulges to form a rough surface. A few drops of Anti-Static Fluid humidify and condition the foam. As the Humid Mop works against the surface of the preening pads or Dust Bug roller, it collects the debris and distributes a microscopic layer of the liquid. You clean the Humid Mop itself by forcing it into a bottle stuffed with foam sponge, which can be washed as necessary. Although the Watts Anti-Static Fluid left a considerable residue, the amount that would actually reach a record in this long transfer chain should be negligible. The Parastat/Humid-Mop system proves reasonably effective in cleaning surface litter from a disc, but it does little to relieve a static charge.

Mounting the Specimens

What conclusions can be drawn from these experiments? Is there one universal record-care product? In our opinion, no. Too much depends upon that state of the record prior to cleaning. Just how dirty is it? What causes the dirt to adhere to the record? Is it deep within the grooves or merely on the surface?

A record that is basically in good shape but has static-held surface litter is set to rights simply. Any of the ionization guns will neutralize the charge so that the dust can easily be swept off—and effectively kept off, during play, by any of the tone-arm-type devices. But (with the exception of the Le-Bo), the guns won't do the sweeping. The Decca Record Brush drains off the charge and will sweep away surface litter as well, but its soft bristles are of questionable value for removing dirt captured by chemical (rather than electrical) attraction.

Any of the humid velvet pads also will discharge static and do the sweeping—at least of surface litter. Dampened with a solvent, they should also remove dirt that adheres chemically. How well they do that depends largely on the ability of the solution to break the chemical bond and the ability of the pile to get the solvent into the groove and then pull out the dirt. But the solutions (including plain water) can also attack chemical bonds within the record's surface. Alcohols are particularly dangerous in this respect, but it seems that any fluid in quantity is a threat. From the best information we have been able to get on the subject of vinyl breakdown, we would have to recommend those systems that only dampen the disc for short periods over those that really wet it for any length of time. (The finer points—such as the threat imposed by excessively high alkalinity in the solution—also seem to have been established, though since we are not chemical engineers we must defer to the opinions of those with expertise in this field.)

There are, as well, large differences in the amount of residue left by the fluids. The least was left by Magic Twins (Recoton), D-3 (Discwasher), Sound Guard Record Cleaner (Ball), Memorex, and Purifier Fluid (Fidelitone), in that relative order. The Magic Twins and Memorex fluids have a high alcohol content, an excess of which may, as we have said, remove stabilizers from the vinyl compound and make the record surface more brittle and subject to disintegration under the poundings of the stylus. The Fidelitone product's slight but oily residue would seem less desirable than a dry deposit.

Wet-playing systems (a prime example is Lenco-Clean) appear to contribute to destruction of the record surface in yet another way. New evidence collected with a scanning electron microscope suggests that a liquid film causes the stylus to skid, instead of keeping close contact with the groove walls. In applying the large forces necessary to re-capture the errant stylus, the vinyl can be irreparably damaged. This warning pertains in some degree to any device that applies liquid to a disc while it is being played.

The type of velvet pad used on the cleaners varies widely in fiber type and orientation. Those with a matted surface whose fibers look tangled under the microscope may pick up surface litter but will do little to penetrate the grooves for more deeply embedded dirt. Other velvets have a stiffer, more individual fiber structure and a preferred lie which should make them more effective deep cleaners. Of these, Discwasher's stands out from the crowd. The Watts Parastat is comparable in loosening embedded dirt, which can then be picked up on the velvet. Similar-looking devices vary in the quality of the pile, as noted in the tests. The unaided eye is not a good guide.

If a record is really grimy, it probably will have to be wet-cleaned—for better or worse. Both the Watts Record Brush and the Fidelicare Spin & Clean seem well designed for this chore, which we'd consider a “last hope” for the disc.

Although there is no single record-care product for all seasons, keep in mind the adage about an ounce of prevention. Dust that becomes ground into the vinyl—or the "goo" that you have failed to remove—can be as deleterious to long-term surface quality as solvents that rob vinyl of plasticizers. So the maintenance of a fine recorded library requires care: in the selection of disc-maintenance products and in their use, as well as in their design or formulation.
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Yum-Yum: Yes, I am indeed beautiful! Sometimes I sit and wonder, in my artless Japanese way, why it is that I am so much more attractive than anybody else in the whole world. Can this be vanity? No! Nature is lovely and rejoices in her loveliness. I am a child of Nature, and take after my mother.

Early in 1890, Arthur Sullivan presented Ethel Smyth with a copy of the full score of his oratorio The Golden Legend, remarking, "I think this is the best thing I've done, don't you?" Recalling the incident in her memoirs, Impressions that Remained, Dame Ethel records that candor compelled her to say that she thought The Mikado Sullivan's masterpiece. "He cried out: 'O you wretch!' But though he laughed, I could see he was disappointed."

Connoisseurs may argue about what Sullivan's masterpiece is (though no one has suggested The Golden Legend lately), but the public has always agreed with Dame Ethel. The Mikado enjoyed the longest initial run of any of the operas, and it continues to be by far the most popular. In his twenty seasons with the D'Oyly Carte, Kenneth Sandford has performed the part of Pooh-Bah more than 2,000 times.

Yum-Yum's consciously naive speech tells us something about why The Mikado is so well loved. The opera is beautiful in the directness and simplicity of its ironies, the cleverness of its irritability, the breadth and charm of its characterizations, the range of its wit—and, yes, its human feeling. William S. Gilbert's text has been criticized in his day and in ours for its bloodthirstiness; capital punishment is not the most agreeable of subjects. But this is offset by the vigor of Gilbert's humor and, surprisingly, by the delicacy of his feeling—which is exposed not only in the obvious places (like the chorus "Comes a train of little ladies" or the madrigal "Brightly dawns our wedding day"), but also in the rounded characterization of the elderly and ugly Katisha. Sullivan had demanded a "probable plot." He didn't get one, but he did get probable and sympathetic characters.

Yum-Yum is the most irresistible of the heroines, and the town of Titipu produced exaggerations of what any English village could plentifully supply. The tailor Ko-Ko is a common man for all of his uncommon resourcefulness; and in Pooh-Bah, Gilbert found a name for a personality that had always existed and that will continue to exist as long as committees meet.

Sullivan, too, worked with vigor and delicacy in his score. The concerted numbers are among the most ingenious he ever wrote, for he does not simply pit tunes and rhythms against each other, but also injects personality. He found music for Gilbert's people. The Mikado is artifice so skilled and intricate that it seems artless; for all its absurd removals from reality, it does in fact take after Mother Nature.

The Mikado has been recorded ten times, and eight of these versions are still available. The earliest of them is
the electrical recording of 1926, conducted by George Bynge (Pearl GEM 137/8). The second electrical version was that, from 1936, by Isidore Godfrey conducting the D'Oyly Carte; it has several times been transferred to LP but has not been available for many years. Then in 1950, Godfrey returned to the studios with Martyn Green and Darrell Fancourt to re-create what they had done fourteen years before (Richmond RS 62004).

In 1956, Green, who had left the D'Oyly Carte, went to Hamburg to record Mikado again; that version, originally on Royale, recently reappeared on Everest (3412), the first-and one hopes the last-Mikado to be forced onto a single disc. (It plays more than forty minutes to the first-and one hopes the last-Mikado to be forced to 16 years before (Richmond RS 62004).

A year later Sir Malcolm Sargent made the first stereo recording (Angel SBL 3573) with his usual cast of opera principals are German ("If you want to know who we are, we are gentlemen of Chapan"). Richard Korn's conducting commands respect, though he does not seem to be using the standard orchestration; the chorus and some of the principals are German ("If you want to know who we are, we are gentlemen of Chapan").

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A year later Sir Malcolm Sargent made the first stereo recording (Angel SBL 3573) with his usual cast of opera singers, and, in 1958, Godfrey made his third D'Oyly Carte recording (London OSA 1201, hereafter London I). Then in 1962, the Sadler's Wells company-now the English National Opera-recorded its highly acclaimed production the Alexander Frey conducted (now on Rod McKuen's Stanyan label, 2SR 9009). Finally, in 1975, Royston Nash made the best-recorded version of all (London OSA 12103, hereafter London II); there is a terrific sharpening of the ax in the first-act finale.

Nash's set completes a circle, for his tempos are the liveliest (and the closest to the metronome markings in the score) since Bynge's nearly fifty years before. Faris gets some particularly lovely woodwind playing but curiously substitutes a clumsily assembled overture for the one that Hamilton Clarke prepared under Sullivan's direction. Sargent's version has slow tempos and exquisite detail; Godfrey's 1958 account has even more emphatic weight. Some curious set of chances has determined that none of these includes the spoken dialogue.

Pearl's avid annotator speaks of the artistic superiority of Henry Lytton's Ko-Ko, but I do not hear it on the records. The great veteran seems to be making such an effort to "sing" that he neglects to characterize fully; he also jumbles the words more than once. Still, there's something very touching about his ongoing, vigorous "Tit-willow"—there is poignancy in the gargled octave echo that arises from the suicide's grave.

Peter Pratt (London I) seems to me the best of all Ko-Kos. He sings with the greatest liveliness of rhythm, musical accuracy, and apt vocal coloration. Can one resist the besotted way he sings of how he adores himself with "passion tenderer still"? Geraint Evans' Ko-Ko is the best of his performances in the Sargent/EMI series, but the pointlessness of his delivery of the list song is offset by an excessively lachrymose "Tit-willow"; his timbre is also close enough to those of Pooh-Bah and Pish-Tush to cause some occasional confusion of identity.

John Reed (London II) has a tendency to rush the beat, and he often resorts to the kind of cockney mannerism that Sullivan deplored in the work of some of the early Savoyarids. His echo from the suicide's grave is a gimbickly electrical one, and he spoils an otherwise pleasing version of the song by bursting into sobs at the end.

The actor Clive Revill (Stanyan) takes out after most of the words with real zest; he makes a droll exception in "The criminal cried" when he seems almost afraid to utter the dread word "snickersnee." The recording makes very odd stereo shifts in the middle of the tralas in "The flowers that bloom in the spring," bouncing them from speaker to speaker—perhaps in this emulating one of Green's funniest vocal effects, for he makes this passage sound as if emerging from different throats.

Green's three recordings of Ko-Ko document a progressive deterioration of voice and abandonment of artistic conscience. The 1936 version is his finest recording of any of his roles. The voice is youthful and very beautiful (one tends to forget that Green had been before the public for thirty years and a D'Oyly Carte regular for sixteen years before he made the Richmond recordings for which he is best known) and "Tit-willow" has surpassing simplicity and eloquence; the patter he manages with aplomb and accuracy. For some reason, Green didn't like Ko-Ko's listing of that "singular anomaly, the lady novelist!". In 1936 he went after "the prohibitionist," and in both of the later recordings he chooses to place upon the list "the girl that's never kissed.

There is not much characterizing to do in the music of Nanki-Poo, but the sections of his "Wandering Minstrel" song do want differentiation. Derek Oldham (Pearl), Leonard Osborn (Richmond), and John Wakefield (Stanyan) do this most completely, and of the three Wakefield is the most accomplished vocalist. Richard Lewis is at his most pallid on the Sargent set; Colin Wright (London II) has slovenly musical manners and a baa-ing kind of voice that refuses to blend with anyone else's. Thomas Round (London I) is characteristically direct and pleasing. One "Karl Brock" is identified as the Nanki-Poo of the Royal set (Everest provides no identification at all); the tenor sounds very like Round, who in 1956 had temporarily left the D'Oyly Carte.

Yum-Yum has a lot of skittery music that almost anyone can sing, but her song is one of Sullivan's most difficult. The soprano must sing over the most minimally supportive—but magical—of accompaniments and somehow turn an even series of notes into a supple line by letting the words decree the rhythm; she must differentiate between the verses, and the tone must vie with the sun and the moon. Elsie Griffin (Pearl) is properly mischievous, and she has all the right ideas. though hardly the technique to implement them; Elsie Morison (Angel) is ideal. Margaret Mitchell (Richmond) and Barbara Troxell (Everest) have healthy voices and project personality. Jean Hindmarsh (London I) sings metronomically and uninterestingly; Marion Studholme (Stanyan) is brittle and unappealing, while Valerie Masterson's tone color (London II) is unvaryingly bright.

Bertha Lewis (Pearl) is predictably the best of Katschas, delivering her inventive with terrific bite and energy, yet singing the rest (more meltingly than any Orfeo. Ann Drummond-Grant (London I) and Monica Sinclair (Angel) have vivid personalities, though they do better as tergivers than as woman wronged. Ursula Boese (Everest), for years a Bayreuth regular, swoops imposingly through the music, but her English is imperfect. Elia Halman (Richmond) is dull, and the others are just awful.

Fancourt's Mikado, unlike Green's Ko-Ko, develops in resourcefulness and broadly sketched subtlety over the years (he is heard in the 1926, 1936, and 1950 D'Oyly
of recordings by singers with ties to the earliest years of the D'Oyly Carte Company, tells us something interesting. Richard Temple, the original Mikado, makes a very pompous and lugubrious effect (it should be remembered that he was long past his prime by the time of his few recordings), but it is significant that there is no Mikado laugh. Walter Passmore's "I've got a little list" is mostly spoken, not sung (that got started early), and for the "lady novelist" he substitutes "lady motorist"—already, in 1907!

C. H. Workman's "Tit-willow" is the most absurd disc in the entire survey. He sings most of the song very beautifully, but then—perhaps fearing that we won't have noticed the comic aspects of Ko-Ko's situation—he sallies into a cadenza as elaborate as one of dotty Lucia di Lammermoor's.

The Mikado has been much-adapted. In 1939 there were simultaneous productions of The Swing Mikado and The Hot Mikado on Broadway. Apparently no original-cast recordings were made, though Mildred Bailey did a "Tit-willow" that year that I would dearly love to hear. In 1962, Michael Winner made a movie called The Cool Mikado, and, in 1975, London had a stage hit in the reggae version of the opera called The Black Mikado. A recording is available on Transatlantic TRA 300. The rhythmic insistence of the Titipu Town Band, which played on-stage, gets to you after a while, but some of the singers do skillful and entertaining things. Val Pringle's Mikado laugh leaves everyone else in the genteel-titter class.

Cleo Laine did her own baroquely ornamented version of Yum-Yum's song about this time (British RCA LPL 1-5026), but by far the most bizarre of all Mikado recordings is the soundtrack of the television version Green produced in the late '50s. The Columbia LP has long since vanished, but a few tracks from the performance survive on a British Harmony record (30060) called "Gilbert and Sullivan's Greatest Hits." If you can get through Nelson Eddy singing "I am the monarch of the sea," you will shortly come to a unique version of "As some day it may happen" in which the one and only Groucho Marx delivers all manner of original inflections (such an "irritating laugh") with the most endearing indifference to all notions of pitch, rhythm, tone, and style.

Ruddigore (1887)

Mad Margaret: Mad!?
Yes, very!
But why?
Mystery! ...
But see, they come—Sir Despard and his evil crew! Hide, hide—they are all mad—quite mad!
Rose: What makes you think that?
Margaret: Hush! They sing choruses in public.

"Take it away—give us back The Mikado!" shouted the gallery on Ruddigore's first night; one of the subsequent headlines called the new opera Gilbert and Sullivan's "FIRST FLAT FAILURE." Ultimately, though, the opera ran 288 nights, and Gilbert said he could use more failures like that.

But both of the collaborators knew that something had gone wrong with Ruddigore; the second-night audience saw a much changed show with a sharply reduced second act, and the next opera represented a major departure. Still, Gilbert had had a bright idea when he decided to satirize the conventions of melodrama, opera, and the Shakespearean stage. But when he tried to cross these conventions with those of Savoy opera, he cornered himself into situations he couldn't write himself out of.

There are senses in which Gilbert was in fact giving
audiences back The Mikado: Here are madrigals and ballads and failures in etiquette. Dick Dauntless’ boat is called the Tom-tit, and Dame Hannah’s song about the little flower and the great oak tree uses the same method (nature allegory) and serves the same function (reconciliation of characters) as “Tit-willow.” To reassuring familiarity of characters, like these, Gilbert adds the shameless exaggerations of melodrama, a mad figure from Hamlet, and a simpleminded sailor who descends from all those seafaring, openhearted cousins in Restoration comedy (and collaterally from Tristram Shandy’s Uncle Toby). The plot has everyone falling in and out of love with everyone else with a ready will, and it takes a stroke of madness to bring about an ending. Basingstoke.

Sullivan’s accomplishment was likewise uneven. He was tired of doing all the usual things, and when they turned up in the text his music lacked energy and invention and melodic distinction. (One excepts Dame Hannah’s lovely ballad and that most dizzying of all the patter numbers—331 straight eighth notes—the trio “My eyes are fully open.”) On the other hand, the scene in which the family portraits come to life awakened Sullivan’s imagination, and he wrote a full-scale operatic scene that is at once legitimately effective and cleverly parodic. (The portraits start to sing in the melody of Schubert’s “Wanderer,” and soon we’ve moved to Weber’s Wolf-Glen.) Gilbert thought this was too much—but today this section of the score is the one audiences are likely to respond to most warmly.

After that initial run of 288 performances, Ruddigore disappeared from the D’Oyly Carte repertory until the company revived it in Glasgow in December of 1920; for that revival the conductor Geoffrey Toye had produced a still further revised edition. Gilbert and Sullivan had already shortened the second-act finale until all that remained was a reprise of the first-act finale; Toye also took out a section of the duet, No. 17, “Happily coupled are we,” Robin’s patter song, “Away, remorse!” the melodrama, and a few other short passages. Since some of this music appears in the original overture, he supplied a new one of his own, which is now the one usually played. It is a skillfully put-together parade of hits and makes a brilliant effect, but it gives away too much too early and misses the best joke of the original, the direct parody of the opening of Il Trovatore—timpani roll, string octaves, horn call. (The original overture is played as an entr’acte in Godfrey’s 1962 London set, OSA 1248.)

The 1924 recording now on Pearl (GEM 133/4) is virtually an original-cast recording of the Toye version. Ruddigore has always appealed to performers, because the characters get to change from good to evil and back again, and change is challenge; even the static characters like Dick Dauntless are rather more colorful than their counterparts in the other operas. It is the Pearl cast that is most successful in these kinds of characterizations—and in singing.

Darrell Fancourt and Bertha Lewis make a thing of extraordinary beauty of their ballad, and Fancourt puts on a fabulous display of melodramatic evil in Sir Roderic’s song. Leo Sheffield is an idiosyncratic Sir Despard, and Elsie Griffin brings a delightful little tea-rose voice to the music of the heroine. She cleverly differentiates the speakers in her song and communicates the sense that she is somehow thinking all this up and figuring it out as she goes along.

George Baker and Derek Oldham deliver their music with typical panache, and Eileen Sharp brings a good glassy giggle to the part of Mad Margaret; the bridesmaids do a delightful bit of babysing. There is one scrap of dialogue, something unique in the acoustic series, but it gives you nothing to generalize upon since it is delivered by Baker, who did not perform his roles on-stage.

Godfrey’s 1952 version (Richmond RS 62014) makes even more cuts than Toye, but it is something to have because of the matchless Dick Dauntless of Leonard Osborn (this, apparently, was his favorite role)—he alone sings the song about the encounter with the “parley-woo” in the kind of accent that is implicit in the text. Martyn Green is also excellent as Robin, singing gracefully, accurately, even bashfully in the duet and with great spirit later on.

Ann Drummond-Grant is the most vivid of Mad Margarets, but she sounds far older than the sympathetic Dame Hannah of Ella Halman; Margaret Mitchell brings considerable personality to Rose. Fancourt, although now in leathery voice, sings Roderic’s song with unrivaled energy. This performance, even more than any of his three recorded Mikados, lets you hear what the Illustrated London News was talking about when it spoke of his “priceless gift of attack,” something like “watching high tide flooding across the beach: It is an irresistible swell-and-surge.”

Sargent’s 1962 set (EMI SXDW 3029, imported by Capitol) restores most of the music the Richmond Godfrey set omits, and it boasts superior recorded sound (something more important here than in any of the other
Gilbert was waiting for a train in Uxbridge Station when he saw a poster advertising the Tower Furnishing Company—and, in it, the subject for his next libretto. The beefeater pictured in the station in two flat dimensions set him to thinking about what turned out to be his most three-dimensional text, The Yeomen of the Guard. At last Gilbert gave Sullivan what the composer had kept saying he wanted: “No topsy-turvydom,” Sullivan wrote approvingly of this text, “very human, and funny also.”

“Very human” is usually taken to refer to the fact that Yeomen is the only Gilbert and Sullivan opera that does not have a happy ending. Phoebe—attractive, sighing Phoebe—loses her Fairfax and has to marry the odious, dull-witted Shadbolt. Dame Carruthers snares Sergeant Meryll on blackmailer’s terms.

And, of course, jesting and gibing Jack Point loses his Elsie and “falls senseless” at her departing feet. George Grossmith, the original Point, used to kick his leg up in the air during those last measures of music and wiggle his foot to let everyone know there was life in the private buffoon yet; it was with the next generation—Henry Lytton in London and George Thorne simultaneously in the provinces—that the now-prevalent tradition of a dead Point was established.

But the rich humanity of Yeomen arises from something more than these destinations of its plot. There is little comic distancing in this opera; these characters do not prettily pose in their feelings while Gilbert satirizes them. Instead they express legitimate emotions of frustration and loss, act out of understandable human motive, experience the pain of loving the wrong person or of loving the right person at the wrong time.

The dialogue uses its ingenuities not as abstractions, easily assigned to other characters, but as indicators of personality and situation. The commonplace exchanges of conversation—“Why, how you’ve grown! I did not recognize you”—are not simply the amusing rattle they make in the other operas; here they are charged with urgency and drama.

The verses aspire to, and attain, the condition of poetry. Gilbert had been re-reading Shakespeare for Elizabethan atmosphere—not, he complained, a “rollicking” experience—and there is something of Shakespeare’s songs in Phoebe’s and in Fairfax’ songs. There is something of Shakespeare’s in Fairfax’ songs, in Elsie’s and Point’s ballad, in the quartet “When a wooer goes a-wooing.” Even the contrast ensembles emphasize hopelessness and pain rather than comic conflict of aim—compare that quartet with something like “The flowers that bloom in the spring” in The Mikado. Ruling over everything is the recurrent image of that grim old fortalice, the Tower itself, keeping watch and ward, a sentinel unliving and undying, in whose shadow pass the courses of human lives.

Yeomen was Gilbert’s own favorite among the operas. But up to the very day of the premiere he worried about it because the text and music were so much a departure from the usual G&S manner. The earlier operas, he well knew, had made their work “as much character. Richard Lewis and Elsie Morison are pallid as Dick and Rose, and this may be Baker’s least fortunate characterization. He was nearly seventy-eight when he recorded Robin, and the performance is all direction and no singing tone—after a while one thinks unkindly of those windup sets of false teeth.

Sargent’s reading takes the fast music faster than anyone else, which makes for something marvelous in the madrigal, but he also tends to linger excessively over the rest. The portrait scene is full of weight and color. Godfrey’s second set is also a good one, with John Reed and Kenneth Sandford at their best as the Murgatroyd brothers—Reed has a spectacular success with his smarmy delivery of “As pure and blameless peasant” in the first-act finale. Donald Adams makes a fearful roar as Sir Roderic, and Jean Hindmarsh makes a neatly embroidered Rose.

Jean Allister is bland and innocent as Mad Margaret, which is the way Jessie Bond, the creator of the role, thought it ought to be played. Both Thomas Round (elegant and buoyant) and Gillian Knight (comfortably embossing the music) are in excellent form as Dick and Dame Hannah, and Godfrey gets superb playing out of the Covent Garden orchestra.

The D’Oyly Carte has reportedly been experimenting with restoring more of the original score; it is to be hoped that Nash and company will give us, for the first time, the Ruddigore that Gilbert and Sullivan wrote. That we do not yet have such a thing is madness. Basingstoke.
odyssey for the unusual, "archaic" meter of the Elsie-Point duet. His music draws on darker orchestral colors than before; there is a majestic Tower leitmotiv, even a Dies irae. Everywhere there are predominantly slower tempos to give the words, emotions, melodies, voices space in which to unfurl themselves.

The danger in performing Yeomen is that the conductor will obscure the work's lighter qualities and try to strain its honest sentiment into tragedy. That is why I prefer Godfrey's reading on the 1951 Richmond set (RS 62012) to either of the available ones of Sargent (the deleted Angel set SBL 3596, due for reissue on Seraphim, and hereinafter referred to as Sargent II, or the still later version with D'Oyly Carte forces on London OSA 1258, Sargent III).

Godfrey chooses generally brisker tempos than Sargent, and he refuses to dawdle anywhere. (He also deleted Angel set SBL 3596, due for reissue on Seraphim, and hereinafter referred to as Sargent II, or the still later version with D'Oyly Carte forces on London OSA 1258, Sargent III).

Godfrey makes generally inexpressible cuts in the first-act finale, as well as more traditional decisions to omit the "Rapture, rapture!" duet for Dame Carruthers and Sergeant Meryll.) Sargent's dawdling permits him to do some very beautiful things—he brings a much more lovely flexibility to the quartet—but it also tends to degrade sentiment into sentimality and alter the majestic into the marmoreal.

The key role, of course, is that of the jester Jack Point. The musical characterization emphasizes his hurt and bitterness; much of his music is somehow lopsided. It is a pity, therefore, that none of these sets includes the dialogue so that one could experience his quick-wittedness as well.

Martyn Green's Point was one of his most celebrated portrayals, and the Richmond recording is a fine monument to it—the weariness and inelasticity that had invaded his voice by 1951 can seem a legitimate part of this particular characterization. Green can throw a veil over tears of the sound of his voice, and in a song like "Oh! a private buffoon" he can use his voice to demonstrate the way Point uses wit both as weapon and defense.

John Reed (Sargent III), too, finds in Point one of his finest roles. He sings that first duet in a nice conversational manner, not underlining the ironic story that parallels his own until the reverses of the end; his voice here is only a thread, but he manages some musically very beautiful decrescendos on the sustained notes. Reed is economical with his special effects in the two patter songs, and he sings the close of the opera verymovingly indeed, though I could have done without the Canio-sized sob at the very end.

Cerant Evans (Sargent II) has certain advantages in the crucial concerted numbers—he can join a truly musical sound to the others in the ensemble. But the qualities intrinsic to his voice make Point sound too lugubrious too early on; Evans lacks of vocal mobility means that the allegros have to be very "comodo" indeed—the duet with Shadbolt (Owen Brannigan) sounds like a grotesque lumbering parody of those head-over-heels Cianetta-Tessa duets to come.

Elzie Morison (Sargent II) and Elizabeth Harwood (Sargent III) are simply ideal as Elsie—blooming, sensitive, spirited—while Muriel Harding (Richmond) sounds stuck-up. Ella Halman's Dame Carruthers, on the same set, is one of her best-sung characterizations; Gillian Knight on Sargent III is similarly gentle and attractive, and Monica Sinclair (Sargent II) comes on like a one-woman brass band, which seems a little beside the point, as does her slavering delivery of the refrain about the twisting screw and the turning rack.

Ann Drummond-Grant (Richmond) sounds hoarse and old as Phoebe (she also mispronounces "heigh-ho"), both Ann Hood (Sargent III) and Marjorie Thomas (Sargent II) are splendid, Hood singing with charming dynamic sensitivity. Thomas with a gentler kind of tone and with a delightfully peripatetic, conditional sort of portamento in "Were I thy bride."

Richard Lewis (Sargent II), "bravely coy," sings "Is life a boon?" as if he were asking the question rather than assuming the answer. Philip Potter (Sargent III) sings with an analogous callow timidity but without comparably blandishing tone. Leonard Osborn, shoving his voice up to the notes, at least sounds as resolute and with a delightfully peripatetic, conditional sort of portamento in "Were I thy bride."

Several older recordings demonstrate that earlier generations of performers left the sentimentalizing in this opera to the audience; their approach is far more direct. Robert Evett, a tenor especially admired by Sullivan, sings Fairfax' two songs with great clarity and firmness in the "Art of the Savoyard" set. Walter Passmore, also admired by Sullivan, sings some of Point's music laconically and interestingly. (His duet with Elsie, incidentally, goes without the big accelerando at the end that occurs in all the modern performances.) C. H. Workman, on his Pearl recital record (GEM 124), sings some of the same music with almost licentious liveliness.

Two bits of George Baker's straightforward and touching characterization of Point for the more vigorous Sargent of the 1928 set are on his deleted HMV recital record. The Derek Oldham recital on Pearl (GEM 125) has most of the role of Fairfax, taken from the 1920 acoustic recording under Byngie: his colleagues include Baker, again notably effective. Violet Essex, and the Erda-voiced Nellie Walker.

Finally, a real curiosity: A Pearl miscellany (SHE 509) has Thomas Round and Donald Adams singing the three "lost" arias from Yeomen (really not "lost" at all, like so many others, since it has been known for many years that the New York Public Library had them all along)—one for Meryll, one for Shadbolt, and an earlier version of "Is life a boon?" The singing is terrible, and the orchestrations do not sound authentic.

Nevertheless it is fascinating to hear this music, once. Meryll's song is martial, conventional, and expendable, an expression of parental pride. Shadbolt's song intrigues more because of its slightly off-color text (it's about how Phoebe will allow a cat but not an Assistant Tormentor to lie in her lap) than because of its music. The alternative "Is life a boon?" is written in 6/8 time. Occasionally the melodic contours are the familiar ones ("Yet one would pray to live another moon"), but mostly they are not; the lilting rhythm makes both music and text sound more ornamental than they do in the version we know.
The Gondoliers (1889)

Don Alhambra: I have arranged that you will reign jointly, so that no question can arise hereafter as to the validity of any of your acts.

Marco: As one individual.

Don Alhambra: As one individual.

Giuseppe (linking himself with Marco): Like this?

Don Alhambra: Something like that.

"Something like that," indeed, for Gilbert and Sullivan truly wrote as one individual in The Gondoliers, perhaps the merriest of the operas. Each collaborator set out to please the other and, in doing so, satisfied himself—and the public. After The Yeomen of the Guard, Sullivan thought he wanted more of the same; he made it clear that he did not want to return to "the former type" of collaboration. "The types used over and over again (unavoidable in a company such as ours), the Grossmith part, the middle-aged woman with fading charms, cannot be clothed in music by me. Nor can I again write to any wildly impossible plot in which there is not some human interest."

Gilbert made some apparent concessions—the middle-aged woman with fading charms makes no appearance here—but in fact came up with something of the "former type." (The resolution of the plot depends on the same switched-baby trick he used in Pinafore.) But he worked with such ingenuity that the wild impossibilities become "bright, interesting, funny, and very pretty" (words from Sullivan's diary, written after he had read the libretto). Gilbert touches no deep emotions here, but he does work with the universally appealing theme of people wondering how the other half lives. "We're called gondoliers," Marco and Giuseppe sing, "but that's a vagary." Like all Gilbert and Sullivan characters, they are colorfully costumed Englishmen, calling from the throne room for their afternoon tea.

Everything in Gilbert's book is neatly plotted: Whether he knows it or not, each of the characters is suitably married by the end of the first act, and each domestic relationship (the romantic liaison of Casilda and Luiz, the naive newlywed suburban bliss of the Duke, the worldly wise, combative relationship of the Duke of Plaza-Toro and his Duchess) comments on the others. Each collaborator set down; he keeps lifting words out of music to accommodate the dialogue and a performance of the other operas. The second-act finale, for once, requires musical elaboration rather than a simple reprise of the most appealing tune, and all of Gilbert's tumbling rhymes requires fast music; Sullivan himself explained to an interviewer that there was "more work" in The Gondoliers than in any of the other operas.

"We leave you with feelings of pleasure," the cast sings at the end, and audiences have always reciprocated; it is wonderful to think about the "little, squat figure in black," Queen Victoria, beating time with her hand during her command performance while the cast sang about the advantages of being "a regular Royal Queen." For all of us, The Gondoliers brings a renewed sense that life is indeed a "pleasant institution."

No recording of The Gondoliers has surpassed the first electrical version of 1927, one never issued on LP. (Pearl should cast a possessive eye.) That performance was strongly cast all up and down the line, with particularly lively realizations of the Plaza-Toros by Henry Lytton and Bertha Lewis; and Derek Oldham sings the most mellifluous of versions of "Take a pair of sparkling eyes." Each of the subsequent recordings only partially satisfies, though each makes a useful supplement to one of the others.

The 1990 D'Oyly Carte version (Richmond RS 62010) boasts a demure and fetching Casilda in Margaret Mitchell, a vital, bossy Duchess in Ella Halman, and quite the most energetic Marco in Leonard Osborn. He makes heavy weather of his song, but he actually sounds as if he could oar a gondola instead of just going along for the ride. Yvonne Dean is the merriest of sisters as Tessa; her little song benefits from her cute yodel over the register break. Muriel Harding sings Gianetta with ladylike, "eccented" vowels that amuse, but most of the other performers are unattractive. Alan Styler sounds a very poker-faced Giuseppe, and one with a tendency to rush the music besides; Richard Watson seems very pained to be singing Don Alhambra; and Henry Goodier makes one dull potato of a Luiz.

Martyn Green had extensive experience in this opera—and addition to the Duke, he also appeared at various times as Antonio, Giuseppe, and Luiz—but too much of that experience shows. His voice is tired and tight, and he seems to have grown impatient with what Sullivan set down; he keeps lifting words out of music and into Sprechstimme. Some of the inflections are amusing and show a real gift for mimickry—"Doubtful propriety!" he echoes Halman—but Lytton had those, too, and he sang more accurately.

Godfrey sometimes has trouble maintaining order with this motley crew, but his 1961 remake is one of his liveliest readings (London OSA 1323, three records to accommodate the dialogue and a performance of the rhythmic squabble before returning, chastened, into unisons.

Sullivan had asked for words that would "suggest" music, not "govern" it. Gilbert obligingly worked with great metrical variety, so the score of The Gondoliers teems with dance-forms: There is a waltz, a barcarolle, a gavotte, a tarantella, a saltarello, a cachucha. There is, in fact, more music in The Gondoliers than in any of the other operas. The second-act finale, for once, requires musical elaboration rather than a simple reprise of the most appealing tune, and all of Gilbert's tumbling rhymes requires fast music; Sullivan himself explained to an interviewer that there was "more work" in The Gondoliers than in The Yeomen for this very reason.

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...
Sullivan and Burnand "triumviretta" Cox and Box. There are several attractive performances here: Styler, though singing even more like an aged curate, has the advantage of the dialogue in creating a livelier character, and Kenneth Sandford, dripping condescension, speaks the dialogue as exceptionally as he sings the music of the Grand Inquisitor.

The two sopranos do rather whine, but Joyce Wright has a nice, simpleminded way with Tessa's adorably simpleminded song. Gillian Knight delivers the dialogue impossibly, but she has trouble with the Duchess' singing tirades because her tone is round and the music needs edges. John Reed, her consort, pulls the rhythms about, but his voice is in fine needling fettle; if, as usual, he sounds excessively amused by himself, at least that can be heard here as part of the characterization.

The latest D'Oyly Carte version is scheduled for domestic release this spring as London OSA 12110; the performance has the dialogue, slightly cut, and the discs include a bonus, Sullivan's fustian but lovable Mormon Overture, after Sir Walter Scott. Nash conducts the first-class Royal Philharmonic with great élan and respectfully for the score; he plays Sullivan's overture, taken: Elsie Morison's glamorous Gianetta, Monica Sinclair's incisive Duchess, John Cameron's characteristically firm and supple Giuseppe.

But there is too much disappointment in crucial places. Owen Brannigan is quite uncharacteristically characterless as Don Alhambra; Edna Graham, a little-known soprano, chips away at Casilda with the voice of an ice pick; Richard Lewis sounds inappropriately reticent as Marco, particularly when singing alongside the vigorous Cameron, and Geraint Evans brings to the music of the Duke a voice that is a padded boxing glove when the situation requires a rapier.

There are not many individual recordings from The Gondoliers, because there are so few extractable numbers. C. H. Workman sings bits from two different roles in his series of solo recordings, but the results here are without great interest; rather too interesting is Danny Kaye's grotesque "go" at "In enterprise of martial kind." EMI has recently put together a recital by the tenor Webster Booth (HLM 7109), who was a British version of our own James Melton; the record has on it a particularly clear-toned, nimble, and charming account of "Take a pair of sparkling eyes."


**Phantis:** Yes—bizarre, is it not?
**King:** Most quaint. But then it's a quaint world.
**Phantis:** Teems with quiet fun. Utopia, Limited

The saddest of Gilbert's Bab Ballads is the last of them. We are supposed to laugh at the dilemma of the "played-out humorist" of the title who vainly seeks for jokes that aren't fifty centuries old. "I've come to the conclusion that my mine of jocularity," the humorist writes, "in present Anno Domini is worked completely out." But it isn't easy to smile at Gilbert's assessment of his own situation—and his recognition of the verdict of the public on his last works.

The Gondoliers is usually referred to as the last triumph for Gilbert and Sullivan: for audiences since the nineteenth century, the last two collaborations.
Utopia, Limited and The Grand Duke, have been the
great Gilbert and Sullivan "failures" because that is
what tradition calls them (though Utopia enjoyed a run
only one performance shorter than that of Princess Ida).
the great Gilbert and Sullivan mysteries because they
remained unheard.

The books mention these pieces but never discuss
them, content to repeat what the last study said; pages
go to analysis of the quarrel about carpets; paragraphs
to the last pair of works the great collaborators actually
produced. And those paragraphs usually talk about
how much Utopia cost to put on, and what Melba, "gor-
geous in dark green," wore to the premiere.

This unsatisfactory situation began changing in the
Sixties. The BBC broadcast performances of both op-
eras, with Peter Pratt as King Paramount and the Grand
duke; tapes of those performances gained wide circula-
tion among collectors. The D'Oyly Carte Company, re-
lucent custodian of these works, filled out its 1963
Trial by Jury (OSA 1155, one disc) with five excerpts
from Utopia, neatly conducted by Godfrey, with
Thomas Round giving an exceptionally amusing ac-
count of "A tenor all singers above," that wonderful
song about how the tenderness of emotion can crack a high C.
(Some writers, incidentally, have seen stratagem in
the way Gilbert assigned the name Arthur to this char-
acter who "can't do himself justice" in music.)

About the same time, the semiprofessional Lyric The-
ater Company, of Washington, D.C., issued a complete
recording (with dialogue) of its production of Utopia,
followed in 1965 by The Grand Duke. More recently
Pearl Records added both operas to its catalog: that
same Lyric Theater performance of Utopia (SHE 505/7,
three discs), and a British amateur performance of
Grand Duke (SHE 516/7, without dialogue). Finally the
1975 centenary celebrations prompted the D'Oyly Carte
to stage Utopia for the first time since 1893 and to
present a concert version of Grand Duke—perfor-
mances that led to the recent London recordings.

Since then, the British G&S enthusiast John Wolfson
has produced a book, The Final Curtain (Chappell/
Andre Deutsch), that analyzes these pieces in detail.
Paradoxically, it is through Wolfson's study of operas
few people properly know that we can find out the most
about how Gilbert and Sullivan actually worked to-
gether and put something on the stage—a nerve-racking
process for both of them. "Another week's rehearsal
with W.S.G.," wrote Sullivan after the premiere of The
Grand Duke, "and I should have gone raving mad. I had
already ordered some straw for my hair."

All of this activity has established Utopia as a sur-
prisingly solid repertoire success; unfortunately, it has
also confirmed what has always been said about The
Grand Duke: that it is the one out-and-out Gilbert and
Sullivan failure.

Utopia, in fact, is a wonderful piece. Gilbert got
around his flagging imagination when it came to plots
simply by virtually eliminating that element altogether.
The central situation, a neat reversal of the satiric one in
Montesquieu's Lettres persanes and Goldsmith's Cit-
izen of the World, creates its own self-perpetuating
comic energy: The residents of Utopia have set about
making themselves perfect, just the way people and in-
stitutions are in England.

In some ways this is Gilbert's richest and most amus-
ing work, because its central situation permits him an
almost unlimited (utopian?) range for satiric attack—the
work ranges farther than any of the earlier operas, sub-
suming their themes. Not that "themes" are all that im-
portant ("the stage." Gilbert once said, "is not a proper
pulpit"); it's the topsy-turvy way he addresses those
themes.

Some of the language of address is familiar. The Duke
of Plaza-Toro, we recall, is "limited," too; we get "ser-
ried ranks" from Mikado, a "helmet hot" from Ida, a
world of dolce far niente. The King of Utopia is in touch
with the Mikado of Japan, and Captain Sir Edward Cor-
coran, K.C.B., makes an appearance; the first love duet
turns on the same conditional joke as the one in Mi-
kado.

The first audiences delighted in all of this: it was only
critics who complained that Gilbert had mined himself
out, that he was "repeating himself." Of course he was,
and on purpose, because he always had. That, in fact,
is one of the great delights of knowing more than one of
the operas. Each work is amusing in and of itself, but
it becomes the more so by reference to how these same
counters were played in other games. Here Gilbert's
reminiscences are particularly welcome, because Uto-
pia is such a summary work.

Sullivan's score, too, is one of the most varied and
amusing of the series. It quotes from Pinafore, glances
at "God Save the Queen" (one recalls that Gilbert once
said that he knew only two tunes: "One is 'God Save the
Queen'—the other isn't"), and even parodies Sullivan's
own Lost Chord cadences when the young princesses
sing, "And when I wish to hum a tune/It needn't be a
hymn one." It isn't necessary, perhaps, to join Shaw in
considering the mock-banjo and real-tambourine ac-
companiment to the minstrel ensemble (the wonder of
the opera) the equal of Mozart's orchestration in the
farewell trio in Cosi fan tutte to admire it. And of all the
love duets, the nocturnal "Words of love too loudly
spoken" is perhaps the most beautiful, it too with its echo
(of "None shall part us from each other" in lolanthe) but
with something new as well, that lovely backward-
climbing melody of the beginning.

The blame for The Grand Duke's failure lies princi-
ply with Gilbert, since his words and situations al-
ways generated Sullivan's music. (The finale of Uto-
pia provides the one celebrated exception: Sullivan got
"In lazy languour": two ladies of the Utopia, Limited chorus.
The Grand Duke is Gilbert's worst book. "Dialogue too redundant," Sullivan confided to his diary. Gilbert, not a man given to self-criticism, wrote of his latest "child": "I am not at all a proud Mother, and I never want to see the ugly misshapen little brat again."

Misshapen certainly is: The plot is excessively complicated, and everything in it seems to happen more than once. The subtitle of the opera is "The Statutory Duel," but there are two statutory duels in the first act, and by the end there are who-knows-how-many claimants for the position of Grand Duchess.

The pity of it is that the central situation is so promising and the central metaphor is, of all that Gilbert tried, the one he knew the best: the theater. (What, after all, did he know, or care, about lozenges?) Ernest Dummkopf's theatrical company lives the roles its members assume, and the operation of the company parallels the operation of the government of the Grand Duchy of Pfennig Halbpfennig. There is an amusing bitchiness in the rivalry between the actresses Lisa and Julia: Ernest's song, "Were I a king in very truth," epitomizes Gilbert's method:

"Here claims all hodyens as her rights
(Shes played them thirty seasons)
And G must show herself in tights
For two convincing reasons—
Two very well-shaped reasons."

But the trouble is that Gilbert can't keep his central metaphor at the center. He wants to ride off in all directions but forgets that you have to saddle a horse first.

Sullivan comes up with at least one capital tune—in the Herald's whimsical proclamation—but mostly he supplies tired music, compounding all the old formulas, which this time fail to fizz. But then, who could make music of rhymes like "chooses" and "shoeses"? (It doesn't help that Gilbert calls attention to how far he's had to reach to come up with this.) Listening to it, one begins to feel as queasy as the Grand Duke does singing his Nightmare-Song ripoff, "When you find you're a broken-down critter," over the creepie-crawlies in the orchestra.

Because The Grand Duke is set in the Rutirian world of the Viennese operettas, commentators keep saying that the influence of Johann Strauss Jr. is predominant here—and then they point to the waltz chorus at the beginning, forgetting that there is a better one in The Gondoliers. But the chief influence at work is that of naughty French operetta in the style of Offenbach. That line about the "two well-shaped reasons" has an uncharacteristic leer and wink in it, and there's lots more of that sort of stuff; there is even a direct reference to the popularity of La Grande-Duchesse de Gérolstein. The Prince of Monte Carlo's "roulette song" is only the most obvious attempt of Sullivan to work in Offenbach's gamier manner.

The earlier recordings of both operas are frankly poor, but they have the advantage of reproducing performances that have been properly rehearsed; tempos are established before a piece begins rather than along its course. Throughout, the flesh may fail (the singers are almost uniformly terrible, and the orchestras have an awful struggle getting out all the notes and keeping them in tune), but the spirit is usually right.

The London sets can easily supersede these older ones, but frankly it will not take much enterprise for someone else to supersede them. The Royal Philharmonic under the not-always-steady baton of Nash sounds as if it were sight-reading—it takes a while for the orchestra to get the hang of too many things; many errors of enunciation and textual detail are permitted to pass—Michael Rayner even mispronounces the subtitle of The Grand Duke.

The casts have the D'Oyly Carte regulars in more or less predictable roles: John Reed as Scaphio in Utopia and the Grand Duke; John Ayldon as Phantis and the Prince of Monte Carlo; Kenneth Sandford as King Paramount and Ludwig; Rayner as Mr. Goldbury and Dr. Tannhauser; Meston Reid as Captain Fitzbattleaxe and Ernest Dummkopf; Lyndsie Holland as Lady Sophy and the Baroness of Krakenfeld. The principal-soprano and mezzo parts are split: Pamela Field sings Princess Zara in Utopia, while Julia Goss—Zara's sister Nekaya in Utopia—is Julia Jellicoe in Grand Duke; Judi Merri is Zara's youngest sister, Kalyba, while Jane Metcalfe is Julia's rival, Lisa.

Most of the cast members of Grand Duke (OSA 12106) are in representative current form. This is a good thing in the case of the solid-voiced Ayldon (though his French is pretty awful for a prince from Monte Carlo) and Rayner, not a good thing in the case of Holland, Sandford, and most of the others.

Goss is the most musical and wittiest of the cast, but she misses the main comic point of the role. The "Englishwoman" Julia, as a foreigner among the Pfennig Halbpfennigers, should have an accent (the role was written for Ilka von Palmay, a Hungarian countess who had sung Nanki-Poo in Berlin—her accent, and her bewitching laugh, can be heard in a song called "Butterfly" in Pearl's "Art of the Savoyard"); Goss saves her accent for The Gondoliers. Reed's Grand Duke completes his cycle of all the patter songs and commemorates his twenty-five seasons as principal comedian: unfortunately, this role brings out the italics in him.

The Utopia recording (OSA 12105) is a more attractive proposition, with everyone but Sandford (who sang Phantis to Reed's Scaphio in the 1963 excerpts) in notably better form—that grand veteran makes heavy weather of Paramount, a part that might once have been among his best. One must turn to the Godfrey disc to know what this music can be made to sound like. Both recordings are slightly but not damagingly cut. The Utopia set includes a bit of spoken dialogue at the end, presumably in order to make sense of the finale; since the opera is without an overture, Nash plays the "Imperial March," a piece that is unintentionally amusing in its stodginess. Shaw once said that the music was destined to enjoy a great vogue in the suburbs as a pianoforte duet.

There are not many historical records of music from Utopia, but Scott Russell's "A tenor all singers above" (in Pearl's anthology) is of unusual interest because the artist sang small roles in the original productions of these last two operas. His singing, compared to Round's, or even to Reid's in the complete set, is square, hammering, sturdy in rhythm, marked by fulsome enunciation; it sounds just like one of those Edwardian tenors bursting into "Then shall the righteous shine forth" from Elijah. It is utterly charmless and, for that reason, utterly charming. Gilbert-and-Sullivan is indestructible, you see.
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The Devil in Paris

Paganini's demonic genius left its imprint in the annals of both music and science

NICCOLO PAGANINI a revolutionary? The greatest showman of his time, the most irresistible lover, the most incandescent in temperament, yes. But a revolutionary, and a French revolutionary at that? The Devil you say!

Well, the Devil is exactly who is said to have instigated the revolution. Paganini's Paris debut in 1831 came in the aftermath of another revolution, a piece of political mayhem known as the July Revolution: In 1830 the good citizens of Paris dethroned the gaunt and haughty Bourbon, Charles X, and bottled in his place his cousin Louis Philippe, the fat and friendly Citizen King. But Paganini's preceded two others: a revolution in music led by the young Hector Berlioz against the dead hand of eighteenth-century classicism, to which Paganini might have been expected to contribute but didn't (except for a thousand or so francs every now and again), and a revolution in the sciences led by an angry band of avant-garde experimentalists seeking to uproot the old-guard empiricists who preferred to ponder nature rather than tinker with it. Paganini did, in a strangely convoluted way, contribute handsomely to the latter. For just as things were going quite nicely for this new breed of French scientists, along came Paganini with old Lucifer in tow and threatened to undo all their hard labor by reviving a kind of medieval Devil worship in every faubourg and salon of Paris.

Paganini—tall, cadaverous, long-nosed, spider-fingered, dressed perpetually in black—did, of course look like the very Devil, especially so when he began to play: weaving and flailing, spindly fingers cavorting over the strings, contorted shoul-
ders giving him the appearance of a giant flapping bat. The effect was intensified by the sounds of lightning runs and trills, fearsome double and triple stops, simultaneous pizzicatos and staccatos, whole sonatas played on just one string, unearthly women’s voices screaming from his violin’s sound box. Every motion, every sound seemed to fulfill the nearly 300-year-old reputation of the violin as the Devil’s consort and of the violinist as the Devil himself. This is to say nothing of the notoriety the rumor mills of Europe had distilled for Paganini out of a not unlurid past. Two items that were accepted as fact want special notice. One was that, when Niccolo was only six, his mother made a pact with the Devil wherein she traded the boy’s soul for his career as the world’s greatest violinist. The second was that no sooner had Niccolo attained puberty than he automatically became the greatest womanizer of all time, in which exalted state he killed a woman, imprisoned her soul in his violin, and was using her intestines as an eternal source of gut for his strings.

Thus, by the time Paganini left Italy in 1828 to conquer Europe, the soil had been tilled extremely well for him—most notably so that of Central Europe, which he had decided to use as a staging area for his ultimate goal, Paris. Here the rivers and forests were still inhabited by kobolds and nixies and the natives had never quite forgotten Dr. Johann Faust, a real doctor of theology turned magician, necromancer, and all-around charlatan whom they had conjured into a Devil’s contractee for his wickedness. The Satanic Familiar always ran before Paganini’s mortal entourage, preparing the febrile imaginations of potential audiences for the violinist’s corporeal apparition as well as his dazzling music. This supernatural double usually appeared in somber black as a member of the audience, recognizable from the long black locks, the burning black eyes, and the sardonic smile. But occasionally he broke the pattern.

In Vienna he happened to have been more brash than usual, taking to the stage at Paganini’s side dressed in a red cloak and pantaloons, complete with horns, hooves, and tail, to guide the violinist’s bow arm through a blazing performance of Le Streghe (The Witches’ Dance). In Magdeburg, Germany, he merely raised a violent thunderstorm during a concert and, without appearing himself, conducted lightning to the free end of the bow. But in Frankfurt he actually took possession of Paganini’s body, according to the testimony of an otherwise solid Frankfurter, who looked for a cloven hoof beneath the artist’s trouser leg and, though he saw only a boot, swore he could discern the outline of a hoof within. And so it went throughout Mitteleuropa—in Prague, Warsaw, Dresden, Leipzig, Hamburg, Berlin, Munich—and points west until Paganini, leaving Strasbourg, finally set his path toward Paris.

With all of these harbingers speeding westward for more than two years, Paris was properly agog when his big black brougham clattered up to the Hôtel des Princes on the Rue de Richelieu in the early morning of February 24, 1831. By nightfall he had received a request from the Citizen King for a command performance on March 5 and was being besieged by impresarios brandishing contracts. A recurrence of his pernicious cough and an old throat pain had caught him just as he was entering the city, however, and he was feeling too poorly for such exertions. Instead, he spent the next day at the clinic of Dr. Francesco Bennati, medical adviser to the Théâtre des Italiens and an old friend from his Vienna tour who had treated him for the same ailments in 1828. Together with Dr. Marcel Miquel, a specialist on the stethoscope (which had been invented less than twenty years previously by the great Laënnec, Miquel’s teacher), Bennati explored Paganini’s every inch. When they had finished their poking and probing, they agreed that the patient was sound and showed no evidence of tuberculosis, the disease that had been suspected.

Paganini was sufficiently cheered by this medical verdict to begin canvassing Paris for a likely impresario. He hit upon Dr. Louis Véron, the newly appointed director of the Royal Academy of Music—more affectionately known as the Paris Opéra—and editor and publisher of the Revue de Paris, who possessed the added virtues of being a canny manipulator and a physician. The contract they finally agreed upon called for a series of nine concerts at the Opéra and an escalating scale of admission prices for each, with Paganini receiving a proportion of the box-office receipts.

If the opening concert on March 9 struck Paris with the force of a storm, the second concert, on March 13, was even more phenomenal. For this Paganini had reserved his famous rondo La Clochette (actually the last movement of his first violin concerto) and his new Concerto in D minor, which he had made bold to dedicate to the “brave people of France.” And when he was done Paris was figuratively in flames. The Devil immediately began his operations, concentrating on the fashionable salons along the Faubourgs St. Germain and St. Honoré and achieving an undisputed
triumph when the Comtesse de Lamothe-Langon, the peerless leader of the salon set, confessed that Paganini had so excited her drawing room by his presence that "I glanced involuntarily at his foot to see if it was cloven."

More unusual, however, was the reaction of the literary clique, ordinarily the coolest social enclave in the city. Honoré Balzac wrote of "supernatural talents born of a spark struck from another world." François Castil-Blaze, the otherwise dispassionate critic for the Journal des débats, had to apologize to his readers for being forced "to have recourse to the Devil himself to give you some idea of what Paganini is like." None other than the dean of musicologists and critics, François Joseph Fétis, likewise abandoned his academic composure and confessed in the scholarly Revue musicale: "There is the awesome prestige, the thrill of the supernatural in these works of fantastic genius."

It was at this point that the scientists of Paris began to stir. They—especially the physicians—were the most avid of the drawing-room crowd and as such were privy to all the gossip that went twittering through the faubourgs. At first they were amused by it all, but matters changed when the humanists, their natural allies in the crusade for a new world built on scientific reason, showed evidence of losing their cool over Paganini and his Devil. This defection made the threat of a diablerie imported from Germany and Eastern Europe—where a mystic theology of sin and salvation still whistled through medical philosophy—ominous indeed.

In mounting the barricades of medical protest, none stepped higher or shouted louder than Dr. Bennati. "We consider this foreign invasion as much an affront to the honor of France as to the honor of science," he cried. There was, he insisted, only one thing to do: organize a special plenary session of the Academy of Sciences, the official body that presided over the scientific affairs of France, at which he would present a paper on those intimate medical secrets of Paganini's that only he knew and that would convince the world no Devil stood at the violinist's elbow. Not being advanced enough in research or teaching to have merited election to the Academy, Bennati was forced to act through those who had been touched by this honor: the surgeon Guillaume Dupuytren, the toxicologist Mathieu Orfila, the internist Jean Baptiste Bouillaud, and the great physiologist François Magendie. Ah yes, they all said, but no thank you; this would be descending into contemporaneous mudslinging, too demeaning an exercise for the venerable Academy. There must be another way.

"And so there is," wheezed fat and scrofulous little Dr. Véron, who, sunk deep in his enormous collars, had replaced the Devil at Paganini's side. Publication of Bennati's article in Véron's Revue de Paris would reach a far greater audience, lay and scientific, than any Academy seance could hope for. "Write the article quickly and give it to me," Véron told him in mid-March of 1831. "I will have it in print by May 1."

Bennati wrote not only quickly, but effectively, almost as if he were pouring all his Italianate bent for histrionics through his pen. "I have," he proclaimed in his prologue, "no intention of analyzing the magical effects of Paganini's playing or describing the enthusiasm of his admirers. I have a far more difficult task, that of appraising his physical organism and studying its effect on the development of his genius. In this task, furthermore, I shall not seek the explanation of his marvelous performances in ridiculous legends; indeed, it is my firm intention to destroy them for all time. I shall instead look for it in the development of his sensibility and his musical organs."

With that, Bennati launched first into a catalog of Paganini's past illnesses and habits, a procedure used in all good medical-case reportage since time immemorial as a means of setting the mise-en-scene, and then into his major thesis. There were in Paganini, he said, four major anatomico-physiological characteristics underpinning the clinical aspects of his genius. First there was the "extreme sensibility of his nervous system" as manifested by his rapid but easy breathing, his finely textured skin with its copious perspiration, and his volatile temperament. This was linked directly to the second, the anatomical hallmarks of his musical genius as manifested by "the bump of music, which in Paganini's case is highly developed on the outer angle of his forehead, as well as in the unusual size
of his cerebellum and the broad, deep conch of his ear, indicating an unimaginable delicacy of hearing.

The third and most revealing of this scientific tetrad was Paganini's unusual musculo-skeletal system and the manner in which it was supervised by his nervous system: "the hand, which although of normal size has its reach doubled by the elasticity of the capsular ligaments of the shoulders; the pliancy of the ligaments joining the hand to the forearm, the wrist to the metacarpus, and the phalanges to each other. Thus he imparts to the first joints of the fingers of his left hand, which touch the strings, an extraordinary flexibility which, without the hand changing its position, enables them to move sideways without abnormal tension, and this they do with facility, precision, and speed."

Fourth, there was Paganini's leanness: "According to my diagnosis, which is confirmed by Dr. Miquel, his leanness is constitutional and not a symptom of tuberculosis. Were Paganini stout, he could never twist himself into those acrobatic poses while he is playing, as when he almost crosses both elbows and turns himself into a kind of triangle."

Then, having reached the finale of his presentation, Bennati declaimed with the fervor of a Rienzi, "There, messieurs, is the science of genius. Ecco Paganini!"

This issue shattered all of the Revue's sales records, foreign as well as domestic. Huzzahs sounded from all the great medical schools of France and from the Academy of Sciences, including Dupuytren and Magendie—not only because the article represented a new thrust in medicine, but also because it had the splendor of timeliness. Bennati having based his thesis on the new physiological data Magendie had recently uncovered in his experimental research on the nervous system. The only facet of the article its scientific readers could have quarreled with was the business of the cranial bumps, already being discarded as the pseudoscience of phrenology. But Bennati's paper, he had preserved the revolutionary primacy of French science, they proclaimed, and nowhere in the world could Paris be faulted for allowing the antisience of medieval diabolism to flourish cheek by jowl with the science of the future.

The most prestigious huzzah of all came from far-off Weimar, where the aging lion Goethe wrote of "this extraordinary article that once again demonstrates how well France is suited to reign supreme in the sciences." As for Paganini, "the talent of this extraordinary man is no longer based on a pillar of cloud and flame, but on the incontrovertible fact of his physical organism."

It was inevitable that this "extraordinary man" should share in the benefits of the Bennati-Veron enterprise. The Devil stopped making his rounds of the salons and no longer gained recognition in the learned publications. Instead, the Journal des débats and Revue musicale devoted themselves solely to arguments over Paganini's violin techniques with an occasional skirmish over the aesthetics of his compositions. And when he left Paris in late April (richer by more than a million dollars at today's rate of exchange), he found that the Devil had pulled in his horns elsewhere as well. In the north of France audiences were content to dow him with the euphemism of "the Enchanter," while in England he was dubbed merely Samiel (son of Satan) in attacks of spleen over his box-office avarice. The Irish were considerably more romantic even if they were equally envious. In order for Paganini to cross the Irish Sea to Dublin, they had him book passage aboard the Flying Dutchman. Even Mitteleuropa was forced to reconsider its previous notions, and in Prague and Vienna, Paganini was shortly converted into a nineteenth-century analogue of the Wandering Jew.

So diametrically had the worm turned, in fact, that when he returned to Paris in the spring of 1832 his image had shifted to the opposite extreme. The great cholera epidemic struck the city during this second concert tour, and rather than take to his heels like so many of his other visitors Paganini stood his ground to help calm the panic with his music. As a reward, he was called the Dark Angel.

But this status was to last for only eight years. Despite Bennati's and Miquel's assurances after examining him in 1831, Paganini did indeed have tuberculosis, and he died of it in Nice in 1840—by coincidence on the tercentenary of Doktor Faustus' death. Through an unfortunate quirk of circumstance, he died without benefit of the Church's last sacrament, and the archbishop used this misfortune to deny him burial in consecrated ground. Paganini lay in a friend's villa while his son Achillino sought to have him transported to Genoa, and the good citoyens of Nice began to witness nightly witches' sabbaths on the premises to the accompaniment of weird snatches of violin music. These ghostly fantasies came to a halt only in 1844, when the two Paganinis, the quick and the dead, left for Italy. The dead man was compelled to wait once more for a religious burial—this time on the grounds of his own Villa Gajona in Parma—while Achillino negotiated with yet another corps of ecclesiastics.

For thirty-one years the households of Parma, who had never heard of Paganini's sterling contribution to the French revolution in science, were terrorized by the same diabolical virtuoso violin celebrating nightly sabbaths. It was only when Pope Pius IX consented in 1875 to grant Niccolo Paganini title to his share of consecrated real estate that the Devil left him for good. To those who insist that there is a teleology of fate, this could be considered a just reward—because there is good historical evidence that the Bennati article in the Revue de Paris helped the pontiff arrive at his decision.
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Karajan's Triumphant Nine

Herbert von Karajan and the Berlin Philharmonic achieve awe-inspiring results in their new DG Beethoven cycle.

by Harris Goldsmith

Herbert von Karajan’s Beethoven-symphony discography now spans some three decades—from his pre-LP recordings of Nos. 5, 7, 8, and 9 to the 1975-76 cycle newly released by Deutsche Grammophon.

His first integral cycle was made in London in the early Fifties with the Philharmonia Orchestra (now available in an imported reissue, EMI SLS 5053, November 1976). Since then, with the exception of a Vienna Philharmonic No. 7, all his Beethoven symphony recording has been done with the Berlin Philharmonic. Since becoming its permanent director in 1955, he has by his own reckoning performed these symphonies literally hundreds of times. His first recorded Berlin cycle was made between December 1961 (No. 1) and October 1962 (No. 3), and between the two DG cycles a video series was recorded.

Unlike some of the great conductors of the past, Karajan is obviously interested in leaving accurate recorded documentation of his work. To accomplish this he has been working in close and regular collaboration with his recording team—insisting, for example, that they all use the same home playback equipment to guarantee that they are all hearing the same things.

The new Beethoven cycle was the result of the most thoroughgoing preparation. First came preliminary sessions in which all nine symphonies were taped. The results were put aside for several months, at which time Karajan took these “sketches” one by one, listening and advising his coworkers of the changes he planned. Only then did recording begin in earnest. (Karajan tells us that the Funeral March of the Eroica was completely remade at the final sessions because he ultimately decided that he wanted a slightly different tempo.) The editing too was meticulously supervised by the conductor, and we can thus assume that what we hear on these discs, like it or not, represents his current views on the music.

There is an obvious hazard in the pursuit of “perfection”: The process can result in a scullsless projection of notes and patterns. I am coming around more and more to the view that many of the commercially issued late Toscanini/NBC Beethoven symphony performances (preserved in Victrola VIC 8000) are cut-and-dried affairs of this sort, capturing little of the wonderful humanity of his earlier, less carefully drilled renditions.

No conductor has been as vulnerable as Karajan to the charge of glossy superficiality. Indeed, the late Bruno Maderna made chiding reference to his “chocolate Beethoven.” The complaint had some validity in some of his earlier work, but I am happy to say that he triumphantly avoids most of the pitfalls here. Although the Berlin Philharmonic’s playing is even more refined than before, the increased responsiveness in dynamics, articulation, and nuance is used to project content and energy to their fullest.

For all the meticulous planning that went into the making of these records, seemingly spontaneous details abound: an undulating violin line in the trio of No. 7 the first time around but not the second, the viola/cello line definition at the end of the trio of No. 9, and so forth. These touches impart a constant delight and sense of adventure to these stupendously played performances. This is precisely the sort of variety that survives repeated listening, the sort of subtle elaboration that characterized the best of Toscanini’s work but somehow was expunged from so many of his later studio performances.

The most conspicuous differences between Karajan’s Berlin cycles (hereafter Berlin I and II) are Berlin II’s greater clarity of texture and frequently faster tempos. The former undoubtedly owes much to improved recording techniques, but some of the added clarity is attributable to the acoustics of the orchestra’s present home, the Philharmonie. Judging from the aural evidence, the hall provides as much air...
space as the Jesus Christus Kirche, the Berlin church where the orchestra used to record, but there is less jumbling of textures from reverberation. The sound is uniformly bright and tightly focused; in general it seems slightly lacking in solid bass, but there are exceptions, most notably in Nos. 4 and 7.

Another factor in the textural cleansing process is surely the orchestra's increased sensitization to Karajan's direction. Berlin I, considered on its own merits, boasts better than average execution and reproduction, but it is astonishing to compare with this the miracles of refinement and virtuosity of Berlin II. Phrasings are more delicately graded than before, but without losing incisiveness as they sometimes did in Berlin I. Fortes and fortissimos now have a cutting edge to them in place of the impactive but rather blunted weight previously heard. Most importantly, articulation of fast passages and general intonation are much improved.

Naturally changes of this nature vary from symphony to symphony, and while some of the earlier performances are virtually as well played as the new ones, such instances in Berlin I as the slightly harried wind/string teamwork in No. 1's last movement and the fractionally out-of-tune timpani strokes at the end of No. 4's second movement demonstrate how the Berlin Philharmonic has been transformed from a solid, old-fashioned German orchestra into a gossamer virtuoso ensemble. In 1962, after only seven years under Karajan, the process was well under way; now, clearly, it is accomplished.

If the refinement in engineering and orchestral execution might have been predicted, who would have expected fifteen years ago that the conductor associated with effortless gloss, even "superficiality," would one day champion steady rhythm and Beethoven's controversial fast metronome marks? In a disc interview that accompanies the deluxe edition of the new set (which I have not seen—a transcript of the interview was included in the press kit), Karajan sheds light on the subject, voicing his increasing distaste for tempo fluctuation, and this antipathy is revealed throughout the performances. One or two of the old gearshifts survive in highly modified form, but for the most part Berlin II makes good the conductor's promised intention of delineating structure by means of color, texture, and accent rather than crude tempo modifications, and nearly everywhere the improvement in shape and structure is remarkable. In only two symphonies, the Eroica and the Ninth, do I prefer Berlin I.

Particularly revealing is Karajan's discussion of No. 7: "Of course, when we were young, the generation before us conducted it much slower. And I knew it was wrong, but I couldn't get out of this because of the inner content of the music. It did not—how shall I say—lend itself to a faster tempo; and with time, you seem to be able to— as I would say it very, very grossly—to pack it in a faster tempo. Then both things were joined: the right tempo and the content of it.

Since there are five Karajan recordings of No. 7, dating from the early Forties to the present, we can readily trace the evolution of his interpretation. The Berlin State Orchestra and Philharmonia versions (the latter from 1953) are both relatively sober and staid. Already in the 1958 Vienna Philharmonic version (London Treasury STS 15107) one can sense Karajan's desire to increase animation and luminosity. The tempos are still basically steady, but the textures have greater shimmer, the angles are less severe and forbidding. With Berlin I the plunger to faster tempers is made, but the music sounds hysterical and disappointingly shapeless. In Berlin II everything works triumphantly: The tempos are, if anything, even brisker than before, but there is iron in the rhythm, and structural paragraphs are delineated with an incontestably firmer, more knowing hand—an idea has become actuality. Even the Allegretto, which suffers in all four earlier versions from Karajan's fancy shifting of gears in the motto sections, sounds pretty much an organic whole. This is one of the finest performances of the symphony I have heard.

I sense that Karajan's Eroica has been undergoing a similar, but not yet completed, metamorphosis. He warns in the interview that many will be shocked by his new fast tempo for the first movement. I like the tempo but for other reasons find the interpretation unsatisfying. The counterpoint sounds constricted and trivialized, and much of the expansiveness that gives this militant music its forward-looking, revolutionary character is missing. (Note the feehness of the timpani outburst at bars 266, in the development, and the matter-of-factness of the cellos' and basses' climbing figuration beginning at bar 603.) Moreover, a lack of variety in the articulation takes a considerable toll: Why the buttery legato at the start of the coda (where the tonality drops a whole tone from E flat to D flat)? And why are the sixteenth notes at bars 561-62 so weak? While Karajan tells us he is unequivocally opposed to metronomic playing, I had the unpleasant sensation that in this movement his players are indeed chasing the metronome.

The other movements are better. The fugal portion of the Funeral March builds to a shattering climax and Karajan's impetuosity pays greater dividends in the finale. This is far from a poor Eroica, but I prefer the more expansively conceived Berlin I and Toscanini's great 1953 account, which weds the kind of nervous intensity for which Karajan is now striving with appropriate breadth.

No. 1 combines the forthright grandeur of Karajan's Philharmonia recording with the felicitous grace of Berlin I. The opening movement, with a measured introduction and an Allegro slower than either of the earlier performances, is followed by an Andante just as slow as before but with more fluidity of motion and a better sense of transition. The molding of woodwinds in the development is as impressive as in the Philharmonia recording, and the last two movements, rollicking in their animated gusto, are intense and faultlessly detailed. I particularly admire the way Karajan this time keeps his violins in tempo—and perhaps even accelerates a shade—in the thirty-second notes in bar five of the last-movement introduction.

No. 2 recaptures the blazing solidity of rhythm of the Philharmonia version. (Berlin I, though tonally refined, lacked rhythmic backbone.) In this symphony particularly Karajan has come remarkably close to the late Toscanini manner. The weighty "monumentality" heard in the Philharmonia version's introduction has given way to a terser, more
stinging accent, and, though some may find him a bit rigid in the Alberti-bass passages of the briskly paced Larghetto, the sophisticated undulation of string and wind tone, the thoughtful shaping, and the sheer technical control outshines the perfunctory jog-trot rhythm of Toscanini's similarly paced 1949-51 account. This brilliantly light-textured Second surpasses even the admired versions of Kempe, Szell, and Jochum.

In No. 4, I wondered which direction Karajan would take: Berlin I was a fleet, subtle account in the Toscanini manner, while his earlier Philharmonia version was exaggerated and morbidly introspective. I'm pleased that Berlin II, although slightly slower than Berlin I, is interpretively much like it. The increased definition and sharpness of the new recording perhaps makes the opening of the Allegro seem a bit brdal and blatant (this quality was somewhat veiled by the more opaque acoustics of Berlin I), but the new engineering also reveals a wealth of rich coloration from the violas and cellos. Karajan, like Furtwängler before him and now Haitink in his Philips recording, retains the long appoggiatura at the beginning of the first-movement development—a detail I rather like. There is a wealth of communicative phrase-shaping in the Adagio, and the last two movements romp with unfussy refinement. This is a marvelous Fourth, and I even forgive the indulgence of the large ritards in the last measures of the finale.

Karajan has always done No. 5 impressively, and the new account is perhaps springier in rhythm and more organic in line than the earlier one. The scherzo seems a mite tighter and more formally impelled than before, and, if the double basses in the trio are less vehement and a shade overloaded, the Adagio now blazes more perspicuously, with less artificial pomp and more breathing space around the notes. Even the controversial habit of slowing down for the bassoon and horn phrases at bars 317 et seq. now seems more natural.

It is symptomatic that Karajan, who used to make slight (and not bothersome) ritards on the bassoon phrases in the Pastoral's first-movement development, has gradually eliminated even that modest liberty. Berlin II improves over both excellent predecessors by including the scherzo repeat and tempering the cool momentum of Berlin I with some of the Philharmonia version's richer luminosity. The storm movement makes one want to run for shelter, and the other movements flow with marvelously unaffected momentum.

The opening measures of No. 8, hammered with almost indescribable brilliance and thrust, immediately make one sit up and take notice. Some may feel that Karajan has become a shade too stringent in the second theme, but I like the way impetus is thus carried through. The Allegretto ticks away with sardonic humor, and in the last two movements the new tempos are a blessed improvement. The tempo di menuetto now moves spryly, with judicious expansion and wondrously clear cellos in the trio, while the finale (already brilliantly performed in both earlier recordings) bounds out of sight at an amazing clip. Like Scherchen, Karajan comes close to Beethoven's seemingly impossible metronome marking, and the Berlin Philharmonic brings it off triumphantly; this performance has incredible thrust and fire.

No. 9 resembles the Philharmonia performance more closely than Berlin I. The first-movement tempo is about the same as in Berlin I, but the clarity of the string triplets at the beginning and the greater wind detail slightly later impart a more rhythmic (and, some may say, more academic) regularity to the interpretation: I have a slight preference for the mysterious opening of Berlin I, which makes the first outburst seem more awesome and dynamic. But the scherzo of Berlin II has better-controlled rhythm (as did the Philharmonia account), and the poetic but not overblown Adagio has far more genuine exaltation, less of Berlin I's voluptuous gloss and—indeed—less bombast. Some of the Berlin II solo singing may be less sweet-toned (the quartet—soprano Anna Tomova-Sintov, mezzo Agnes Baltsa, tenor Peter Schreier, and bass-baritone José van Dam—is put at a disadvantage by overly close miking), but on the whole this one is a masterly, exciting finale, even if Karajan's sense of transition is less supple than it was in Berlin I and the balances in Berlin II are less consummately gauged. (Cymbals, bass drum, and triangle are more pugnacious; lower strings lack the needed solidity.)

Karajan remains unpredictable in the matter of repeats. As indicated, he has restored the one in the third movement of No. 6, but he has now eschewed those in the first movement of No. 1 and the first section of the scherzo of No. 9. He has retained from DG I—unwisely, I think—that spurious da capo repeat in the third movement of No. 1. Elsewhere Berlin II follows the practice of Berlin I: First-movement repeats are taken only in Nos. 5 and 8; the last-movement repeat of No. 1 is observed, as are the necessary scherzo repeats of Nos. 1, 2, 3, 4, and 8. (There are no trio repeats in No. 7—not even the first time around.) The conductor's sense of transition is so sound, and his readings so organic, that he makes nearly all his decisions acceptable.

The package is decidedly lavish, including an elegant brochure with copious annotations covering both the music and the performers plus extensive color photography—not only Karajan (many times over), but the vocal quartet and (would you believe?) section-by-section portraits of the orchestral person-
Karajan may not have said all that can be said on the subject of Beethoven's symphonies, but what he has said here will be listened to with awe—and envy—for many years to come.

**Beethoven: Symphonies (9).** Anna Tomowa-Sintov, soprano; Agnes Baltsa, mezzo; Peter Schreier, tenor; José van Dam, bass-baritone; Vienna Singverein. Berlin Philharmonic Orchestra, Herbert von Karajan, cond. [Michel Glotz, Hans Weber, and Cord Garben, prod.] Deutsche Grammophon 2740 172, $53.84 (eight discs, manual sequence). Tape: 3378 070, $53.88 (six cassettes). Also available in a leather-bound limited edition, signed and numbered, with interview disc: 2721 200, $125.


Comparisons:
Karajan/Philharmonia
EMI SLS 5053
Karajan/Berlin Phil. (1961-62)
DG 2721 001

**Sessions’ Passionate and Profound Lilacs**

Seiji Ozawa and the Boston Symphony give eloquent voice to Roger Sessions’ setting of Whitman’s noble Lincoln elegy.

by Andrew Porter

**Roger Sessions’ Cantata When Lilacs Last in the Dooryard Bloom’d** was commissioned by the University of California, Berkeley, in commemoration of the 100th anniversary of its founding, and was first performed there in 1971. A friend in Berkeley wrote to tell me that it was "the American composition"—great music that was also quintessentially American music. And so it is.

Whitman’s noble, romantic vision of this country is not unknown to British choristers, who learn it through Delius’ Sea Drift and Vaughan Williams’ Sea Symphony. Sessions’ cantata has the rapture, the tenderness, and the poignancy of those of the former, and the energy, the grandeur, and the mystical, contemplative calm of the latter; but in it the words are uttered with an American accent, the melodies take shape from the rise and fall of American speech, and the local visions as well as the universal emotions are passionately and vividly present.

Hindemith set the same text—Whitman’s elegy for Lincoln—in 1946, as an elegy for Franklin D. Roosevelt and for those who had fallen in the war; he called it A Requiem “For those we love,” making plural the “for him I love” refrain of Whitman’s first, tenth, and eleventh strophes. (The composer’s recording of the piece, with the New York Philharmonic and Schola Cantorum, was reissued last year on Odyssey Y 35821.) Hindemith’s Requiem is a grave, impressive, dignified, formal piece in eleven numbers, which lasts an hour. Sessions’ Requiem, which is dedicated "to the memory of Martin Luther King Jr. and Robert F. Kennedy," lasts forty-two minutes, and could be described as a long connected song and as a vision, expressed in words and in sounds, which moves from the particular to the transcendental.

Forty years ago, Sessions wrote of art’s striving to create "a spiritual world in which 'the unattainable' in Goethe’s words 'becomes event' and the fragment’s achieve a unity impossible in the real world." The last scene of Goethe’s Faust. Mahler’s Eighth Symphony (the second part of which is a setting of that scene), the finale of his Das Lied von der Erde, the last movement of Britten’s War Requiem, and (without words) the finale of Beethoven’s last piano sonata provide glimpses of that world. When Lilacs Last in the Dooryard Bloom’d is not “merely” a cantata but a profoundly moving, inspired, and visionary composition.

Whitman once declared that in Leaves of Grass his “method of construction . . . is strictly the method of the Italian Opera,” and in late life he was reported as saying:

My younger life was so saturated with the emotions, raptures, uplifts . . . of musical experiences that it would be surprising indeed if all my future work had not been colored by them. A real musician running through Leaves of Grass—a philosopher/musician—could put his finger on this and that anywhere in the book in no doubt as indicating the activity of the influences.

In Whitman’s Lilacs one can discern the analogues of recitative, aria, and chorus. It is hardly a coincidence that Hindemith and Sessions distribute the lines be-
When Lincoln was killed, the lilacs were in bloom; Whitman later wrote that "I find myself always reminded of the great tragedy of that day by the sight and odor of these blossoms." In his threnody, three "themes" are stated and developed in an almost musical way: the Lilacs, representing spring and perpetual renewal; the great Star falling in the west, Lincoln; and the Bird, the reconciler, singing of death with a beauty that makes death "lovely and soothing." In Sessions' cantata, the introductory strophe is with a beauty that makes death "lovely and soothing;" and the Bird, the reconciler, singing of death and renewal; the great Star falling in the west, Lincoln, part vision of broad-spread America, at peace after the long war: "Lo! body and soul! this land! Mighty Manhattan... Ohio's shores, and flashing Missouri, And ever the far-spread prairies, cover'd with grass and corn." The Bird still sings, but the poet's attention is on the national funeral.

The remaining strophes form Sessions' third and longest movement. With "the knowledge of death" and "the thought of death" beside him like two companions, the poet listens to the Bird's Death Carol, "with pure, deliberate notes, spreading, filling the night." And during the long, lovely song, the night becomes transfigured: "Lilac and star and bird, twined with the chant of my soul. There in the fragrant pines, and the cedars dusk and dim." After the Berkeley premiere, Lilacs was next performed at Harvard, in 1975. The following year, Solti did it in Chicago. In April last year, it was done by the Boston Symphony, under Seiji Ozawa; I heard two of the four performances and some of the recording sessions; the disc under review was made at the time. Like most of Sessions' later music, Lilacs does not yield all its secrets at once. Its "song"—or so I found—is not evident at the start; it takes time to sort out background from foreground, to learn the themes, to discover the network of melodic and harmonic associations. But then, when the work suddenly falls into place, one is amazed that one did not respond at once to its vigorous, lucid progress and its full-throated, passionate lyricism. I have been listening to the record with increasing delight in the colors of the music (the vividness of the orchestral writing seems to grow with each hearing) and increasing emotion, and trust that all who buy it will do so.

For the three solo roles, singers with the timbres and expressive resources of Gundula Janowitz, Janet Baker, and Dietrich Fischer-Dieskau would be ideal. But those particular three would not be good casting unless they carefully studied American speech patterns, inflections, and pronunciation. Sessions asks not for meticulous metrical observance of his carefully notated meters but a free delivery "respecting the subtleties of rhythm and stress which are inherent in the words themselves. In this manner the singer will best realize the composer's intentions." The three singers of the Boston performance are not ideal, but as one listens again and again one begins to like them, for they have the heart of the matter right. The sustained high notes of the soprano, Esther Hinds, are not firm, clear, shining, and pure; there is a beat in them. But there is a kind of rapt tenderness in her phrasing and in her utterance a directness that prove very eloquent. Dominic Cossa, the baritone, sings his lyrical narratives clearly and firmly and his reflective passages with feeling. One wants a nobler tone, and at times one wants more accurate pitch ("And thought of him I love" is closer to B flat than a repeated A); nevertheless one warms to him. Also to Florence Quivar, the contralto. Her voice is unconventional, not equalized; the timbre is fuzzy. But she knows how to interpret the Death Carol.

The Tanglewood Festival Chorus is not a virtuoso body, no Philharmonia Chorus or Vienna Singverein, but it sings with confidence. In the recording, it is rather hard to tell exactly where it is. Having been at the performances in Symphony Hall, I know it was in the usual place, behind the orchestra; on the disc, it sounds as if it were recorded rather closely and then added to the sounds of the orchestra in a way that gets the dynamic balance between them right but produces a disturbing aural perspective. In the second movement, it does not distinguish sufficiently between what should be very soft and very loud singing. And the soprano tone tends to lack solidity.

The glory of the performance is the playing of the Boston Symphony. Sessions has said that he writes enough—and far, far more than merely enough—to bring the work to life. In New World Records' "Recorded Anthology of American Music" it is the most important item. For here, as Andrew Imbrie wrote of another Sessions piece, is "a forceful musical personality at work, who has full command over his resources. Here is unconventional music in the great tradition; here is pattern made to sing; here is movement in sound, expressing what is noble."
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Alfred Brendel—a splendid and smoothly reproduced cycle of Beethoven concertos


BEETHOVEN: Concerto for Piano and Orchestra, No. 5, in E flat, Op. 73 (Emperor). Edwin Fischer, piano; Philharmonia Orchestra, Wilhelm Furtwängler, cond. TURNABOUT THS 65072. $3.98 (mono) [from HMV originals, 1951].

BEETHOVEN: Concerto for Piano and Orchestra, No. 5, in E flat, Op. 73 (Emperor). Rudolf Serkin, piano; New York Philharmonic, Bruno Walter, cond. ODYSSEY Y 34607. $3.98 (mono) [from Columbia originals, 1942].

BEETHOVEN: Concertos for Piano and Orchestra (5). Glenn Gould, piano; various orchestras and cond. [Howard Scott (Nos. 1–4) and Andrew Kazdin (No. 5), prod.] ODYSSEY Y 34640, $15.92 (No. 2 mono, the rest stereo) [from various Columbia originals, 1957–65].


BEETHOVEN: Concerto for Piano and Orchestra, No. 3, in C minor, Op. 37. LISZT: Concerto for Piano and Orchestra, No. 1, in E flat. Claudio Arrau, piano; Philadelphia Orchestra, Eugene Ormandy, cond. ODYSSEY Y 34601. $3.98 (mono) [from Columbia originals, 1948 and 1953].

Brendel's new performances of the Beethoven concertos are less innovative and probably more finely considered than his provocative earlier ones for Vox. This is not to say that the new recordings are without intriguing features—Brendel is, after all, a decidedly scholarly, intellectual sort of artist—but rather that some of the erstwhile iconoclastic features have been abandoned for more conventional solutions.

Thus the new Emperor, while still rather chamber-music-like in its crisp, airy texture, is easier in its pacing, less sharply severe in its phrasing, and the new G major, which features a first movement that eschews the usual tempo fluctuations, hangs together far more successfully. Brendel's cooling of ardor can also be noted in his revised choice of cadenzas. Though he still favors the lesser-heard Beethoven alternative in the G major's first movement (an option also taken by Pollini, Gieseking, Gilels, and Moravec), the new recording of the C minor uses the standard Beethoven cadenza in lieu of the short, unidentified intrusion heard in the Vox edition. In the C major Concerto, Brendel formerly used a synthesis of his own devising, wherein the composer's incomplete first cadenza was brought to a workable conclusion with excerpts cribbed from the longer third cadenza; now that third cadenza is played in its entirety. Certain curious textual interpretations remain. Some, indeed, may well have been introduced. I don't have the earlier Choral Fantasia on hand, but in any event I vigorously disapprove of the added flourish in the fourth bar of the opening solo: since this passage is very much a cadenza, it strikes me as nit-picking and pedantic to ruin the asymmetry by transforming the "offending" measure of 3/4 into one that conforms to its 4/4 neighbors (Katchen, by the way, did likewise in his recording with Gamba, London Treasury STS 15211.)

Brendel's performances will not be to all tastes, but there is a lot to be said for them. I found the C major especially congenial. The sharp impetuosity and snap he brings to the tripping upward runs near the end of his opening first-movement solo recalls Gieseking, as does the feathery, patrician passagework throughout. The broadly spacious Largo, more deeply meditative than Gieseking's, is more in the manner of Schnabel and Kempff, while the rondo really sparkles. (Brendel takes great care with his treatment of slurs in the opening solo there.) I found the first-movement tempo of the B flat and C minor Concertos rather too sedate. True, the manuscript of the latter gives the meter as 4/4 rather than the alla breve of some editions, but it is hard to interpret Haitink's tempo as Allegro con brio.

Haitink and the London Philharmonic are of course far superior in suavity and en-

Explanation of symbols

Classical:

Budget
Historical
Reissue

Recorded tape:

- Open Reel
- 8-Track Cartridge
- Cassette

February 1978
seem to weight to the undernourished pickup groups that supported Brendel in the Vox recordings. Unfortunately the wiry, unpleasantly thin piano tone, which I previously blamed on faulty reproduction, is present here too. Brendel is a superb musician in many respects, but I find his sonority and occasionally tight-lipped rigor off-putting. Others may react less severely to these attributes, and objectively this is a splendid and smoothly reproduced cycle of the Beethoven concertos. The Choral Fantasia has spiritualism in this reading but for my taste seems rather precious. When will Columbia give us one of the incomparable Serkin/Casals/Marlboro performances?

It is interesting to hear Brendel's Emperor, a connoisseur's version, in conjunction with that of his illustrious teacher, Edith Fischer. Fischer may have been slightly past his prime when he made his 1951 recording with Furtwangler, heard in a Turnabout reissue; his wartime version, with Böhm and the Dresden State Orchestra, which I have never heard, is said to be more brilliantly virtuosic. Yet I for one am quite willing to overlook a slightly sedate approach to the first movement's bravura octaves and a bit of smeary passagework in the finale in light of Fischer's mastery and substance elsewhere in the performance. Furtwangler, working with the incisive Philharmonia—then in its most virtuoso estate—contributes an illuminating, ripely sonorous, and (for him) unusually straightforward framework. There are, to be sure, a few rhetorical gestures and tempo shifts, but these are of a conservative rather than disruptive nature.

The Turnabout transfer is excellent—clean woodwinds, solid, warm tuttis, and an admirably discreet placement of the solo instrument unusual for concertos of that vintage. The defects are a slight hardness in the violins and a touch of clouding from the reverberation prevalent in EMI's engineering of that period (e.g., it's a bit hard, though not impossible, to distinguish the timpani rhythm at the end). This is a welcome reissue of an interpretation that will always deserve an honored place in the rog alongside the 1942 Schnabel/Stock (Victoria VIC 1511) and 1933 Gieseking/Walter (Turnabout T713 6501).

Although I grew up with—and derived years of pleasure from—the Serkin/Walter Emperor, now available again on Odyssey, condor compels me to note that there is nothing particularly transcendent about that 1942 performance. Serkin plays cleanly, with orthodox phrasing and strong rhythm, but misses the purely tonal allure of Gieseking's early work or the volcanic excitement and tension of Schnabel's contemporaneous pianism. (His entrance in the Adagio is much more prosaic than it was in his concert performances.) Walter and the New York Philharmonic provide lively, unfussy support, but more of that conductor's quintessential lyricism comes through in the earlier Vienna recording with Gieseking. Heard alongside the memorable Furtwangler, the Walter/New York execution sounds relatively coarsely-grained, perfumy—and untruthful, despite Walter's brisker tempos and superficially more metronomic approach. With Serkin still active, I hope that Columbia will give him the opportunity to re-record the Beethoven concertos with engineering and orchestral support worthy of him. I would suggest Kurt Masur or Carlo Maria Giulini as a suitable collaborator.

Columbia, by the way, should be chided for not furnishing recording dates on historical reissues. If the merchandising department fears consumer resistance to identified antiques, it might consider the potential impact on oil sales should these releases be innocently confused with the company's modern product! Complete discographic information would only increase the value of a program of carefully chosen reissues.

The release of Glenn Gould's set is a cause for itself. Listening to the concertos in their order of composition, which was also the order of recording (over a period of eight years), one can painfully perceive the shadow of the interpreter lengthening over the music. In the introduction to Don Quixote, Richard Strauss depicts the protagonist's progressive mental clouding through serpentine inner voices and an increasing density and elaboration of texture; one experiences much the same thing here—an unfortunate change from passionate involvement to neurotic self-involvement, from a refreshing new viewpoint to a grotesquely myopic perspective. The 1957 B flat Concerto may be slightly lightweight, but it remains an attractively lyrical, technically sparkling, and mostly straightforward performance. Leonard Bernstein's accompaniment is sturdy but thin-toned in reproduction. The slightly later C major Concerto is once again straightforward and invigoratingly buoyant, but already some of the former nuance has given way to a hard, machine-tooled veneer and there are some abrasive eccentricities in the form of the pianist's jarred articulations; deliberate tempos become impossibly static, even swooning. Still, in its strange way this is a deeply affecting performance, and much of the nuance of the B flat Concerto has returned. Reproduction of the orchestra (the Columbia Symphony) is still thin and cramped.

With the 1961 G major Concerto, Gould passes beyond allowable liberty into the realm of the bizarre. Inner voices pop up randomly: phrasing is lamed by self-indulgent arpeggiation; deliberate tempos become impossibly slow, even stodgy. Bernstein and the New York Philharmonic make the best of a bad situation, however (the conductor is more in control of himself than in the benefit performance with Ar- ran—see below), and the reproduction, spread over two full sides, is by far the best of these reissued performances.

**Critics' Choice**

The best classical records reviewed in recent months

**BACH, J. C.: Sinfonias. Zirman. PHILIPS 6780 025 (2). Nov.**

**BACH: Brandenburg Concertos. Leonhardt Consort. ABC/SEON AB 6720 02 (2). Dec.**

**Beach:** Piano Concerto. Boehm, Landau. TURNABOUT TV-S 34665, Dec.

**Beethoven:** Piano Sonata


**Brahms: Songs. Ludwig, Bernstein. COLUMBIA M 34535. Jan.**

**Brahms: Symphony No. 3. Levine. RCA RED SEAL ARPL 1-2097. Jan.**

**Bridge: Fantasm. MOERAN: Rhapsody No. 3. Brahms. COLUMBIA M 34537. Jan.**

**Bruckner: Symphony No 7. Wagner: Siegfried Idyll. Karajan. DG 2507 102 (2). Jan.**

**Cimarosa: II Matrimonio segreto. Varady et al. Barenboim. DG 2709 009 (3). Nov.**


**Dvořák: Piano Concerto. Richter, Kleiber. ANGEL S 37239. Dec.**

**Elgar: Cello Concerto. HNH 4042. Dec.**

**Elgar: Enigma Variations. Du Pré, Barenboim. COLUMBIA S 37239. Dec.**

**Handel: Messiah. Handel and Haydn Society (Boston). Dunn. SINE QUA NON SA 2015/3 (3). Nov.**

**Handel: Oboe Sonatas. Roseman et al. NONESUCH H 71339. Nov.**

**Haydn: Orlando paladino. Shirley, Auger, Lukon, Dorati. PHILIPS 6707 029 (4). Dec.**


**Powell: Sonata Teutonica. R. H. Johnson. COMPOSERS RECORDS S 369. Dec.**

**Puccini: Gianni Schicchi. Braithwaite. HNH 4042. Dec.**

**Rameau: Harpsichord Works. Gilbert. ARCHIV 2710 020 (3). Jan.**

**Schumann: Papillons; Symphonic Etudes. Perlaha. COLUMBIA M 34539. Jan.**

**Shostakovich: The Nose. Akimov, Moscow Chamber Opera. EURODISC 89 502 XFR (2). Dec.**

**Sibelius: Symphonies Nos. 3, 6. C. Davis. PHILIPS 8500 142. Jan.**

**Nellie Melba: The London Recordings. EMI/CAPITOL RLS 719 (5). Jan.**

**Music of the French Baroque. Oberlin Baroque Ensemble. Vox SVBX 5142 (3). Dec.**

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By 1965, Gould's musical 'individuality' seems to have deteriorated into full-fledged looniness. Graffiti-like embellishments are created to demonstrate the pianist's Schenker-graph harmonic analysis (he is always intelligent even at his most deranged), and temps are dragged through the mire. Leopold Stokowski, on occasion noted for eccentricities of his own, here sounds merely soft-spaced and inert, while close-up microphonic culinary calls attention to the untidy, understuffed execution of the American Symphony. Hearing Gould's early work again makes his subsequent artistic decline all the more tragic and hard to fathom.

The Arthur/Bernstein G major Concerto mentioned above is part of a gala benefit concert in Munich in October 1976 on behalf of Amnesty International, which seeks to help political prisoners and victims of political persecution all over the world. The artists declined any payment, and I am deeply moved by their gesture. Few composers, however, are worse served by sentimentality than Beethoven, and I found these coarse, lumbering performances all but unendurable.

Granted that Arrau displays a wealth of color and splendid robustness of tone, that Bernstein often commences a movement with admirable assertiveness, that the Bavarian Radio Symphony plays cleanly, that the sound and processing are first-rate. (All applause has been omitted, and the audience is attentive throughout.) Granted all of this, the general music, which can withstand many diverse treatments, is sapped of its energy and communicative power by all sorts of miserable little under-scorings and tempo adjustments. Phrases are manhandled and subjected to various previous, artless diminuendos. Tempos are pulled about in an externalized, hour-on-sleeve manner that would be out of place even in Tchaikovsky. Bernstein displays a limited concentration span. Arrau a decadently limited sense of humor—both of these qualities being essential if Beethoven is to make his full impact. Given the worthiness of the cause, a direct contribution to Amnesty International would be a sensible alternative to buying these records.

As a happy foil to Arrau's depressing G major Concerto, we have a welcome Odyssey reissue of his 1948 C minor with Ormandy and the Philadelphia Orchestra, which also contrasts instructively with the New York performance with Kubelik televised live last season. This vintage C minor is rather direct, uncluttered, and externalized. For all his mastery, Arrau has always been prone to expansive point-making, and a brisker conductor like the Ormandy of 1948 is a perfect antidote: a stimulant—perhaps even an irritant—rather than a yes-man deferent to the pianist's every whim.

In the first movement, Ormandy clearly follows the manuscript's 4/4 marking but, unlike Hartson, does it at a true, brazen Allegro con brio: the resulting performance has more impetus and far more internal shape than the funereal one with Kubelik. The well-balanced sound serves both piano and orchestra reasonably well, although the limited frequency range of thirty years ago of course couldn't capture Arrau's sonority in all its coloristic beauty. (He may have also been a more percussive, monochromatic player in those long bygone days.)

The Odyssey coupling is Liszt's E flat major Concerto, which Arrau rather surprisingly has never re-recorded commercially. I have been told that this 1953 recording with Ormandy was done in a single take, the under-the-wire product of a recording session immediately preceding a musician's strike. Perhaps that explains the splendid panache and note-to-note impetus of this brilliantly incisive, stirring performance. Arrau gives the slow section unusual asymmetrical phrase-shaping without ever losing vitality. The combination of massive sobriety with straightforwardelan and astonishing virtuosity makes this a performance to cherish. Ormandy accompaniments supertatively, and the reproduction, while similar to that of the Beethoven in solidity and balance, has more sparkle and frequency range.

BEETHOVEN: Symphonies (9). For an essay review, see page 57.


Having heard from these same artists a remarkable broadcast performance of the Brahms D minor Concerto—a modern-day counterpart, in its passionate grim austerity, to the old Columbia recording by Rudolf Serkin and Fritz Reiner—I expected great things from their B flat. It does not quite work out that way, although this is still one of the better recordings of the work.

In its basic style, Pollini's account of the solo part is once again reminiscent of Serkin's: This is in general sinewy, chamberlike Brahms, full of light and shade and far removed from the burly weight associated with such older champions of the score as Wilhelm Backhaus. Like Serkin, Pollini opts for animated temps and a kind of tensile momentum. But in contrast to Serkin's rigorous angularity, his work sounds a shade too rounded off and effortless.

A similar complaint can be made about Abbado's conducting. While the orchestral execution is always clean and tonally attractive, a certain shapelessness causes the musical argument to lose focus. Soft strings have a slight ooziness in the scherzo, too many phrases are rounded off with just a hint of ritard. Brahms does need flow, but here he exists. The very beginning and end of the concerto will demonstrate my misgivings—the former slightly too lingering, the latter with an enormously protracted slowdown.

The sound is stunning, with undamped clarity of detail and a wide, undistorted dynamic range. Most listeners, however, will stick with the Serkin/Szell package (Columbia MG 31421), offering superior performances of both Brahms concertos for the price of this one.

H.G.

BRIAN: Symphonies, No. 6 (Sinfonia trauergro), No. 16. London Philharmonic Orchestra, Myer Fredman, cond. HNH RECORDS 4029, $7.98.

Haver Gulf Brian (1867-1972) may qualify as the most neglected musical genius of the twentieth century, and I can think of no good reason for this. Perhaps (and I'm just grasping at straws) the scale of his orchestration has discouraged performances: Symphony No. 16, for example, calls for quadruple woodwinds, brasses including six horns and euphonium, and a percussion section requiring ten players!

The two works recorded here were created in a period of resurgence following the Second World War. Brian had stopped writing during the war; then suddenly his despair left him, and between the ages of seventy and ninety he experienced a burst of creativity that most younger artists would envy. For it was during this time that he wrote most of his symphonies (which number thirty-two in all) and his large-scale operas.

Sinfonia trauergro was one of the first products of this activity, along with a comedy-ouvertu, The Tinker's Wedding. Both were inspired by the writings of Synge—indeed, the symphony was originally conceived as the overture to Brian's opera based on his Dwicke of the Sorrows (thwarted by copyright problems). Symphony No. 16 stems from a remarkable period of fourteen months in 1958-59 when Brian wrote five complex one-movement symphonies for large orchestra.

If you are used to British music only as represented by Vaughan Williams, Elgar, Walton, or even Britten, he prepared for a shock in listening to Brian's works, for they do not resemble those of most of his countrymen. Pressed to give a new listener something to hang on to, I say they resemble works of certain Scandinavian composers: the use of woodwind and percussion in particular evokes Nielsen. If you know the music of E. J. Moore, another writer from the British Isles somewhat un-
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It should be noted that this recording has already been released domestically by Musical Heritage Society (MHS 3426). As fine as that edition sounds, MHN's is even better. The highs are a little crisper yet not at all overhearing, and there seems to be just a little more focus in involved passages. The MHS is a fine production, however, particularly considering its lower price. Whenever you heuric condition favors (the jacket notes, incidentally, are the same), this disc invites you to discover a great symphonist previously unknown to most.

W.R.B.


Martha Argerich, piano. [Rainer Brock, prod.] DEUTSCHE GRAMMOPHON 2530 721. $8.98. Tape A 3 3300 721, $8.98.

Comparisons:
Argerich
Perahia
Rubinstein

Argerich has always impressed me as an instinctive sort of player, whose natural musical perceptions and relaxed facility enable her to excel in Romantic music, of which no better example exists than the Chopin preludes. She apparently is not an "intellectual" artist in the sense of Arrau, Perahia, or Pollini, but she is decidedly an interpreter of stature. whose artistic taste and innate intelligence and love for the music. make a very good combination when added to all the other nice qualities she has. She has a way of achieving a great deal of the Chopin spirit. Which is as much in the way of sentiment as it is in the way of execution. She is also a very sensitive artist. She can give the impression of a great deal more than the music, as well as the music itself.

Thus her new recording of Op. 28 has much in common with the four versions listed above, but particularly with the mono Rubinstein. Like Rubinstein, Argerich gives for overall thrust and line and is sometimes remarkably careless about detail. She rather loses the syncopation in the C major (No. 1), melody, harmonic counterpoint, and bass are something of a jumble in the F sharp minor (No. 8), the flat minor (No. 16). played even more precociously than in Rubinstein's. This is an alarming number of telescoped runs and wrong notes (including a highly exposed one in the bass near the beginning), and there is none of the care both Pollini and Perahia take with the problematical ending of the F minor (No. 18), where Chopin implies a crescendo that begins during a silence.

Having unhurried myself on those points. I will also confess that I love Argerich's performance. Some of her fast tempos are almost breathlessly so, but time and again she achieves a kind of grand exaltation and structural clarification reminiscent of some of Schnabel's teutonic performances. It is no mean feat to successfully combine forward propulsion and expansive breadth. Argerich is also a master at managing a gearshift or illuminating a harmonic change with the subtlest coloristic device, and while sentiment abounds her playing is virtually never sentimental in the manner of more obvious Chopin "stylists."

Let me at least cite the G major (No. 3), with its uncommonly shimmering left-hand passagework: the absolutely sizzling G sharp minor (No. 12); and the wonderfully arching D flat minor (No. 15). Best of all, her cumulative sense of continuity makes unmistakably clear that Op. 28 is indeed a cycle. Some may ultimately prefer Arrau's and Perahia's, but unlike Poli inini and Rubinstein, Argerich's recording includes the two separate preludes. This sound is warmly resonant, but my copy was blemished by surface crackle.

H.G.

Donizetti: Lucia di Lammermoor.
Lucia
Addo
Edgardo
Arturo
Nnorino

Montserrat Caballe (s)
Ann Murray (ms)
Jose Carreras (s)
Claes H. Ahlberg (r)
Vincenzo Belle (f)

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This new Lucia, while not in my opinion a particularly compelling performance, nevertheless commands attention. According to Jesus Lopez-Cobos (who in addition to being a conductor is a musicologist and is editing a new edition of the opera from the Donizetti autograph), the version of Lucia hitherto current is full of mistakes and distortions.

More than a hundred "differences of rhythm, text, tempo, actual notes, dynamics, and scoring," to quote Lopez-Cobos' introductory essay, have been put right in the performance under review. The most notable corrections being those of pitch, especially in the heroine's big scenes. From the autograph we learn that the vocal scores in circulation have Lucia's entrance aria, "Regnava nel silenzio," a semitone too low and both the Lucia/Enrico duet from Act II and the Mad Scene a whole tone too low. In the present recording these three scenes are transposed upward to their original keys. Moreover, the role of Lucia is stripped of what Lopez-Cobos claims to be its spurious furniture: the cadenzas (including the famous flute-accompanied showpiece in the Mad Scene), the variants and decorations, the famous (but, as we now learn, inauthentic) high notes—among them the E flat that so many Lucias in the past have aspired to if not always achieved.

Lucia, he asserts, is a role for a lirico spinto soprano and not a coloratura soprano (by which term he apparently means a soprano leggero). The latter will hardly come as news to those of us who have heard the Lucias of Callas and Sutherland and (thus know Donizetti's opera to be a serious and moving work). In any case, Lopez-Cobos' view of the past is suspect, since he seems to think that both Patti and Melba, whom he implicitly accuses of misrepresenting the title role, were sopranos leggeri. The former, however, sang Aida as well as Lucia in the same Covent Garden season, and the latter sang Mimi as well as Lucia. On the evidence of records and contemporary reviews, I find it impossible to believe either singer to have been, as Lopez-Cobos implies, inexpressive, a mere technician interested more in her high notes and cadenzas than the communication of musical emotion.

On the contrary, it is Montserrat Caballe who, despite the size of her voice and the unadorned plainness of this edition, is inexpressive: a Lucia capable of pretty sounds (and unpleasant ones, too, whenever the music demands power above the staff) but hardly memorable or individual in characterization. The Mad Scene in particular lacks dramatic focus, a sense of inevitability and wholeness. Moreover, a good deal of her singing is ungainly. The authentic Lucia may be more austere than the one we have all grown used to, but the title role still requires runs, trills, and brilliant high notes, in all of which areas Caballe lacks proficiency.

As a vocalist she is outclassed by her Edgardo, Jose Carreras, who is in particularly beautiful voice on this occasion. As an interpreter he is also more involved than Caballe, more ardent and vivid. That fact, however, is not enough to make him a truly satisfying Edgardo. Good as he is now, Carreras will be twice as good when he learns to moderate his volume—presently stuck nearly all the time at mf—and introduce into his performance a modicum of dynamic shading. Unreliable as the Schirmer score I have been following may be, it offers in its expressive markings a surer guide to musical depth than the scarcely unrelied obstreperousness employed by Carreras. Vicente Sardinero makes an unremarkable Enrico, bland in personaliry and grumpy in timbre. The highly promising Samuel Ramey is a good deal better as Raimondo, though I found his vibrato slightly too predominant for pleasure. I regret to say that all four principals tend to fall back on aspires whenever there are difficult passages to negotiate. Incidentally, both Caballe and Carreras occasionally give their words a Spanish rather than Italian pronunciation (e.g. the former's "fu-russo" for "fantasma").

The Ambrosian chorus attacks its rather uninspiring assignment with energy. Lopez-Cobos secures fine playing from the first-rate New Philharmonia and is often lively, sometimes stodgy, never inspiring. As a
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Gems and Curios from the International Piano Archives by Harris Goldsmith

Thanks to an arrangement made last spring, selected releases of historical material by the International Piano Archives, previously available only through IPA, are now distributed by Desmar Music through regular retail channels (listing at $7.95 per disc). While many of the releases to date have already been available from IPA (and a number of them have been reviewed in these pages), some—a fascinating Liszt recital by the enigmatic Ervin Nyiregházi and a collection entitled "The Catalan Piano Tradition"—are appearing for the first time.

All of the recovery has been carefully remastered by Ward Marston under the direction of IPA's GregorHenko and Desmar's MarcosKlorman, both of whom take pains and obvious pride in their work. Almost needless to say, the quality of reproduction varies greatly from disc to disc, limited by the quality of the original source—and the artistic interest varies from performer to performer (and with many of these performers from listener to listener, depending on the individual perspectives). At the very least, each of these records has intrinsic archival value:

Pride of place must go to the rather bizarre Nyiregházi recital (IPA 111). This pianist, born in 1903 and still living in obscurity, began his blighted career as a spectacular child prodigy but from a combination of circumstances—personal naivete—financial distress, and an unhappy psychological relationship with his overambitious mother—was soon living in destitution (and sleeping on the Forty-second Street shuttle in New York's subway system). An IPA representative happened to hear Nyiregházi in one of his rare comeback recitals and, with understandable thrill of discovery, enlisted this strange artist into the recording studio for a single LP side's worth of playing. The record comprises poor-sounding excerpts from an amateur tape of the California concert. Nyiregházi felt that he had done justice to the two "St. Francis" Legends and refused to retape them.

It is worth bearing in mind that this record presents the playing of a septuagenarian who had not regularly played in public for thirty years—and indeed has not even owned a piano on which to practice for nearly as long. In many ways this is the ruin of a great virtuoso, but, as with the Pathénon, what a ruin! Nyiregházi's work is a gospel, like nothing you or I have ever heard. He doesn't so much play the music as paraphrase it, which is probably very much what Liszt himself did. There are all sorts of dynamic inversions, octave-novelties and altered harmonies, and rampant tremolando-not to mention the fact that even the least strict Haydnian octaves are often played on the left eyebrow, but not the right! Nyiregházi's pianism also raises the hair and elevates the senses.

From the outset he commands a haunting bell-like sonority with a spiritual haze, and the dynamic range (especially overwhelming on this live recording of performances) is nothing short of torrential. Even on the basis of this flawed evidence, Nyiregházi impresses incomparably as a towering figure in the annals of Romantic pianism, a precocious and wonderful interpretive voice—appropriate to his way, as distinctive as Rachmaninoff's. This disc may, sadly, turn out to be our only legitimate document of Nyiregházi's playing (he made a few early piano rolls, which in his view do him scant justice); I understand that after this brief comeback, and following the death of his ninth wife, he has retreated into his reclusive state.

IPA 112 brings us the recordings (the Brahms F Minor Sonata, Op. 5, and a number of short works) that Harold Bauer made for the Schirmer label in 1939, previously issued briefly on the Veritas label. The new dubbing is much louder and clearer (a la "live") performances and recording sessions. With the all-star Curtis Orchestra: and that the performances and recording sessions. With the all-star Curtis Orchestra: and that the performances and recording sessions. With the American composer and virtuoso technician for his artistically irresponsible and cynical exploitation of Beethoven, Schumann, Chopin, and Schubert. I am happy to report that his combination of fluency, grace, and ruthless power is magnificently surpassed by Fritz Reiner and the all-star Curtis Orchestra and that the performances and recording sessions. With the American composer and virtuoso technician for his artistically irresponsible and cynical exploitation of Beethoven, Schumann, Chopin, and Schubert. I am happy to report that his combination of fluency, grace, and ruthless power is magnificently surpassed by Fritz Reiner and the all-star Curtis Orchestra and that the performances and recording sessions. With the American composer and virtuoso technician for his artistically irresponsible and cynical exploitation of Beethoven, Schumann, Chopin, and Schubert. I am happy to report that his combination of fluency, grace, and ruthless power is magnificently surpassed by Fritz Reiner and the all-star Curtis Orchestra and that the performances and recording sessions. With the American composer and virtuoso technician for his artistically irresponsible and cynical exploitation of Beethoven, Schumann, Chopin, and Schubert. I am happy to report that his combination of fluency, grace, and ruthless power is magnificently surpassed by Fritz Reiner and the all-star Curtis Orchestra and that the performances and recording sessions.
The first two, featuring William Kapell and Percy Grainger, are offered as special membership gifts with a contribution of $15. The Kapell disc (IPA 507), containing the Rachmaninoff Third Concerto and two movements of Mozart's K. 414, is reviewed separately in this issue; the Grainger disc (IPA 508) is devoted to works of Grieg. Grainger was as celebrated for his performance of the Grieg concerto as Rachmaninoff was for playing his own C sharp minor Prelude. Yet somehow he never recorded the whole concerto commercially. He did make the first movement cadenza in 1908, shortly after working on the piece with the composer, and there have been issues of his piano-roll solo interpretation and also of a late Scandinavian performance recorded in his declining years. Thus, IPA's issuance of a magnificent--and very well recorded--1945 performance by Stokowski is decidedly an event, and the similarity of that version to the playing on the 1908 except, also included, documents that we are indeed hearing the same interpretation lauded by Grieg himself. The second side of the disc, alas, is of far less value: A home-recorded performance of three Norwegian folksongs from Op. 17 is so wavery in sound that it can scarcely be listened to with pleasure, and a later, completely superfine account of the concerto, with a miserable community orchestra, is no better than the cited Scandinavian reading. If only IPA had instead coupled the Grainger/Stokowski performance, one of the finest I have ever heard, with one of Grainger's outstanding shellac albums--the Brahms F minor Sonata, closely comparable to Bauer's, one of the Chopin sonatas, and Schuman's Symphonic Etudes--immediately come to mind.

The other new releases are recordings by Sigismond Stojowski (IPA 115) and John Ranck (IPA 3302), both available in selected retail outlets or directly from IPA at $7.00 each. Stojowski, friend of Paderewski and mentor of, among others, Loesser and Giauillot, was a consummate pianist; he has a methodical and patient listener. His Brahms concerto, performed with strength and character but more often than not displays hard tonal characteristics and many of the less admirable rhythmic exaggerations of the old school. I might have attributed the deficiencies of these late broadcast performances to advanced age were there not similar hard tone and blochy fingerwork in the Chopin A flat Waltz on record in his prime. The second side of the disc is rounded out with performances of Stojowski's music by his pupil, Louis Stojowski, her playing and the attractive modern stereo sound make a far more persuasive case for his music. A much more appealing proposition is the Ranck disc, originally recorded by Zaddic in the early '50s. Ranck's name was unfamiliar to me, but he plays the music of Vaughan, Telemann, Griffes, and Werle with dash, idiomatic identity, humor, and rhythm, qualities that are amply conveyed in the still very sonorous reproduction.

The annotations on all of these discs are detailed and admirably literate.
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denzi (high B flat and all) at the end of "Torni di
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echo notwithstanding, is as supereleptive as the pressings. There is a libertino in Italian, English, French, and German.

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The Opp. 91-93 overtures were written as a cycle dealing with the notions of nature, life, and love: a unifying leitmotiv, repre
sentative of nature, is first heard at the opening of In Nature's Realm. Unlike Sme
tana's Mo Vlask cycle of tone poems, Dvořák's triptych is rarely encountered as such, even on records, where it fits neatly on one and a half disc sides. With Ancerl's impeccable Czech Philharmonic readings available only as a Supraphon import (SUAST 30432, with the My Home overu
ture), and with Keret's exciting but rather brassy and unisonable London Symphony readings available only as fillers for his symphony recordings (the over
tures are gathered on a British Decca disc, SXL 6538, along with the Scherzo capric
cioso), the new Kubelik edition has the pal
nable advantage of mere availability... another plus for its substantial and well
mated filler, the patriotic Husitska overu
ture. To these virtues add the splendidly live and detailed DG sonics, good playing from the Bavarian Radio Symphony, and Kube
lik's sense of the music's color, rhetorical power, and lilting Bohemian charm. With
out lessening my admiration for the disappear
ning Rowicki/London Symphony per
formances (fillers for his Philips recordings of the Dvořák symphonies) and for such classics as Sejna's magisterial Husitska and Talich's tragically desolate Othello (to say nothing of countless Carnival's), I would recommend the Kubelik disc as the sensible way to acquire this music in toto—and all Dvořák fans will want to acquire it. In the ten orchestral Legends, the buyer has had to choose between a musically first-rate but technically second-rate edit
tion (by Pinkas and the Brno Philharmonic on Supraphon 10 1390) and a technically polished but interpretively cool one (by Leppard and the London Philharmonic on Philips 6508). I am happy to report that Kubelik now offers the best of both worlds. The English Chamber Orchestra plays with affectionate style and wit, sumptuous tone, and alertness. Kubelik feels the music warmly, paces it instinctively, and holds these exquisite miniatures together quite cohesively; his Nos 5 and 6, for example, make more musical sense than Pinkas or Leppard's. The sound is warmer, more immediate than that of most of the Munich and Berlin recordings in Kubelik's DG Dvořák series, and the antiphonal separa
tion of first and second violins pays many dividends in this music. A delightful and welcome disc.

Unlike Kubelik, Michel Beroff and Jean-Philippe Collard are "cultural outsiders" to the Czech idiom, and one is often aware of this in their performance of the four-hand
piano originals of both books of Slavonic Dances. I am uncomfortable with the delib
46. Nos 2 and 3, and Op. 72. No. 3, seems a mi
calculated rather than naturally flowing. All this tends somewhat to constricit the outdoor vitality and ruggedness, the pas
sionately lamenting qualities of the music, which are more evident in the performan
cies by Lejsek and Lejskova (Supraphon 11 1301/2. March 1976). Moreover, some will find the piano sound rather close for comfort—as if the microphones were right under the piano lid. All this said, I must note that Beroff and Collard, even if lacking in Slavic "soul," certainly use their heads and their fingers impressively in these performances. Crisp, clean, and superbly coordinated, their playing lays bare the harmonic interplay of the music in a way their phonographic predeces
seors haven't—one repeatedly notices fresh textural details organically related to the forward progress of the writing. The en
gineering, for all its lack of concert-room ambience, is clean and wide in range. and Irving Kolodin's informative liner notes communicate infectious enthusiasm for the greatness of each of these sixteen masterpieces.


Paul Hindemith has too long languished, due to the boom rap of "scholasticism," in the same kind of semi-obscenity from which Sibelius has lately been emerging. With this release conducted by the gifted young music director of the Quebec Sym
phony, Delos restores to the catalog two "closet masterpieces" (both written for the halle) whose life-affirming spirit and preci
dion workmanship get full due.

The Four Temperaments is a theme-and-variations set for piano and strings, whose sections describe in turn the melancholic, sanguine, phlegmatic, and choleric charac
ters also portrayed by Nielsen in his Second Symphony. While Nielsen allowed himself to cast each movement in its own metac
structural, and rhythmic frame, producing some very vivid "types," Hindemith worked within the narrower confines of one motive source: a smaller and more limited instrumental texture, and a tripartite
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structure for each section (evocative of that temperament's range of activity and passivity). Considering the stringent demands of that temperament, the movement could be said to be even more impressive.

Nobilissima Visions is a suite describing episodes in the life of St. Francis of Assisi. It sounds like a lucky exercise in multimedia sonorities, but in fact the grand opening movement is extraordinarily scored for strings and clarinet, later strings and flute. The final Passage--a grandly triumphant peroration--is thematically akin to its great C minor masterpiece by Bach.

In lush works, Preist's readings can stand comparison with the composer's own (mono) recordings. Not that there is any slavish imitation here. The bright-eyed approach that the De Preist and pianist Curial Rosenberger take to The Four Temperaments benefits from orchestral playing lighter than that of the Berlin Philharmonic on Hindemith's DG recording. I do miss the way in which the DG pianist, Hans Otto, stilled through the allegretto section of the 'Phlegmatic' movement in an unaccountably lazy and jazzy style not heard from the generally brisker and more-wealth, choleric or even sanguine Rosenberger. A minor point, though, and such a pianist/conductor team is in every other way impressive.

De Preist's Nobilissima is also a bit more mercurial than Hindemith's (with the Philharmonia, for EMI), though sturdier, as if building this allegro con moto score, than the somewhat hot-blooded Martinon/Chicago one recently deleted by RCA. The new version is closer to the scooter's marking for the Passacaglia than Hindemith's incredibly broad-spanned performance, and I think it works both ways. In the March, I miss the tautness and weighty swagger of union horns and trombones eight bars after No. 21 as heard in the composer's recording, but Delos picks up a point for clarity (one of many) in the finale between Nos. 39 and 40, where the clarinet chimes can be heard equally with the flutes. The Delos recording is clearly focused and airy throughout these splendid performances. The pressings and the jacket annotations and designs are elegant. A.C.


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Compositions--symphony

Stokowski: American Sym
Serenade: London Phil
Comparison--Central Park
Bernstein, Ozawa, Peress: N.Y. Phil

Col. MS 6775
Col. MS 6775
RCA ARL 1-0569
Col. MS 6843

A new recording of the ives Fourth is always welcome. The symphony is a complex work that no single performance can possibly encompass, and different recordings tend to place the piece in radically different perspectives. This is certainly true of the present release Ozawa puts together a picture of the work very different from any I have previously encountered.

Although Ozawa's version is not without its rewards, I am afraid that for me it will be necessary to characterize it mainly through negatives. But let me at least begin on the positive side. The texture is generally quite rich, even in the more complex passages in the dense thickets of the second movement. I hear details that I don't remember having heard before, and everything has obviously been worked out with great care.

Curiously, it is just this sense of great care that for me proves to be the undoing of Ozawa's reading. The whole thing has a rather mechanical quality--as if the problems were worked out to the point where all life and spontaneity had been drained from the performance. It is difficult to imagine this piece really falling flat (whether one likes it or not), but it comes remarkably close to doing so here.

In the opening movement, for example, the chorus sings the hymn 'Watchman, Tell Us of the Night' in a sort of lusty campfire manner that is completely out of character with the air of mystery that Ives has so impressively written into his setting. The questioning quality, already present in the text and underscored by the composer in numerous ways (e.g., by not allowing the tune to reach its expected cadence), is missed entirely. Rather than mysterious (a quality that should have been unfolded with ever greater intensity throughout the work), we get an aggressive and rather pedestrian rendition of the vocal line.

The second movement suffers also. In general, everything sounds calculated, robbing the music of much of its freshness. More specifically, the tempos are levied out so that the movement, which should at least to some degree sound like a hedgepodge of violent contrasts, moves along on an even and rather dull keel from beginning to end. To cite one particularly egregious instance, the issue at rehearsal No. 18, where the texture is dominated by the main melody in the brass, plays much too slowly and tentatively, whereas at No. 22, which is marked 'slower' and should serve as a kind of lyrical interruption of this previous section, the pace is actually accelerated a bit. Thus the essential relationship between the two segments (which is of course more than just a matter of tempo, as it encompasses the entire character) is thrown off balance.

The third movement's fugue comes off considerably better (it is, in any event, less vulnerable to the considerations of the second performance.) But the last movement, which is one of those transcendental Ivesian visions that should appear to float in a kind of timeless vacuum, is played with too much rhythmic punch and drive, which ironically has the effect of grounding it in the present.

Let me say that I admire Ozawa greatly and that over the past few years I have had occasion to hear him give two truly extraordinary performances of large-scale twentieth-century works (Schönberg's Gurre-Lieder and Messiaen's Turangalia), both of which I consider among my unforgettable musical experiences. But he seems to have little ear for the rhythms and gestures of Ives's (admittedly rather special) musical language. For me the most illuminating Ives Fourth remains Stokowski's classic Columbia recording. It catches both the spirit of the work remarkably well and despite certain problems (including, as with Ozawa, the tempo relationships of the second movement), I would not want to trade it for any other.

For clarity of execution of the second movement, always a very special problem, I would recommend Sereneicker's RCA ver-
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LISZT: Concerto for Piano and Orchestra, No. 1—See Beethoven: Concertos.


Comparisons—Transcendental Etudes.

Berman

Col. Mel. 23/5252

Van. Ev. 33/45

Any doubts about Arrau’s technical fitness, at seventy-five, for the stern Transcendental Etudes are put to rest by the opening “Preludio,” which is not merely note-perfect—and far more beautiful in sound. In both playing and engineering, than Lazar Berman’s Columbia/Melodiya version—but also marvelously robust and fully up to tempo.

“Wilde Jagd” and “Mazeppa” are firm in outline and steady in rhythm; both abound in the kind of meticulous detail that Russell Sherman achieves at the expense of impetus and line in his Advent/Vanguard Everyday performances. Note, for instance, the clear outlining of the left-hand dotted figuration in the central section of “Wilde Jagd” or the luscious separation of the basic melody from the clouds of dust in “Mazeppa.” “Paysage” moves with taut simplicity, the horizontal lines beautifully colored and wondrously clear. “Vision” progresses with arrowlike straightness, its textures cleansed by sparing use of the sustaining pedal, and the same may be said of the swirling F minor Etude, only a hairbreadth more deliberate than Berman’s precipitous reading. “Chasse-neige” is bleak yet varied, and “Harmonies du soir” rivals Richter’s 1958 concert performance for arching subtlety.

My only reservations in this masterfully rendered cycle, and they are slight, concern “Feux follets” and “Cadenza.” It is not the slowish tempo of Arrau’s “Feux follets—that bothers me (the tempo marking, after all, is allegretto), but rather his somewhat ponderous emphases and insufficiently delicate pianissimos. His “grand manner” again obtrudes in “Cadenza,” which lacks Sherman’s exaltation and gracefully spun filigree.

The three Concert Etudes—less fearsome technically than the Transcendental Etudes, fare well too. Arrau’s “La Leggerezza” and “Un Sospir” rival the respective achievements of Godowsky and Bauer.
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All of this music is heard in by far the best sound it has yet had on records—Philips captures the full velvety richness of Arrau's sonority without any of the tubbiness that sometimes intrudes. Since the pianist has returned the compliment with some of his most spontaneous-sounding playing on disc, I would say that his Transcendental Etudes, with due respect to the competition, are a clear recommendation. This set is a triumph in nearly every way.

H.G.

Mozart: Concerto for Piano and Orchestra, No. 12—See Rachmaninoff: Concerto for Piano and Orchestra, No. 3.

Ockeghem: Vocal Works. Pomerium Musices, Alexander Blachly, dir. [Marc J. Aubert and Joanna Nickrenz, prod.]

None/Such H 71336, $3.96


This most attractive recording brushes away some of the mysterious that so often surrounds the Third Concerto is an inspired but flawed creation. Some of Rachmaninoff's most compelling music may be found here—e.g., the piano's plummeting first entrance into the muck of the second movement—but, possibly because of its grand design, the work fails to make the overall satisfying impression that the less ambitious Second Concerto does. There are structural problems and many passages where Rachmaninoff apparently succumbs to his own ether themes and goes nowhere. Contrast this with the Second Concerto, where he more nearly follows the course of Tchaikovsky's First Concerto, with simpler, more firmly delineated themes and a logical line of development that never falters.

It seems to me that the composer himself must have considered the work uneven, for he did suggest some cuts—and his 1939 recording with Ormandy is slashed to ribbons. Let's pin those cuts down. First movement: from the tempo precedents three bars after rehearsal No. 10 to No. 11. Second movement: from the vivavivo six bars after No. 37 to eight bars after No. 28. Third movement: from Reprise, coda, and Orchestra, No. 46 to two bars after No. 52 to No. 54. These excisions range from valuable (the second cut in the third movement) to disastrous (the first cut in the third movement), which eliminates the first appearance of the important second theme where it is most needed—all well and good that the preceding bridge passage presents the theme in choral form, but it doesn't make its emotional impact.

Some of the other recordings listed here—the Kapell/MacMillan, the Wild/Horenstein, and both Horowitz versions—are also cut, but none, interestingly enough, precisely duplicates Rachmaninoff's cuts. According to the annotator for Columbia's new, uncut Berman/Abbado recording, Horowitz claims that Rachmaninoff never made that infamous first-third movement cut in actual performance. But could the great pianist's memory be inventing the facts slightly? His first recording of the work, made nearly a decade before the Rachmaninoff/Ormandy during the period when he studied the work with the composer, observes all the sanctioned cuts ex-
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cept the one in the first movement. The Wild/Horenstein account utilizes the same text as Horowitz/Coates—i.e., first movement complete but all three cuts in the second and third movements identical to those of Rachmaninoff/Ormandy. The Kapell/MacMillan, a 1948 air check of a live concert performance, makes the standard cut in the first movement, offers the second movement complete, and makes a single original cut—from No. 51 to No. 54—in the third movement. This is certainly less harmful to the work than the composer’s suggested mayhem, but everything considered—and this may sound like heresy—I am coming more and more to feel that Horowitz’ second recording (with Reiner) provides the ideal solution: the first movement complete, in the second movement a tiny (and perhaps ineffectual) six-bar cut beginning, like the standard cut, six bars after No. 27 but running only to No. 28; in the third movement the second standard cut but not the first. If Horowitz’ announced intention to make his forthcoming third recording complete is based on sensitivity to purist “policeman” critics rather than his own structural convictions, I urge him to reconsider. Without that second cut in the third movement, the work rambles badly.

The second textual question concerns the performer’s choice of first-movement cadenza. Rachmaninoff wrote two versions of its first part. The first of them, favored by the composer in his recording, is thirty-nine bars long and rather mercurial in texture, with the recapitulation of the first theme given a scherzando restatement. This version of the cadenza was used by Horowitz in both his recordings, by Ashkenazy in the first of his three recordings (with Fistoulari), by Wild, and more recently by De Larrocha (on London CS 6977). Nowadays, this once overwhelmingly preferred edition has been supplanted by the alternative: fifty-five measures of muscle-bound thundering and lumbering chords. Gieseking’s eccentric 1939 broadcast performance (once offered on an IPA disc) opted for this, but it was Van Cliburn who made it stick. Regrettably, all of the more recent recordings except De Larrocha’s adhere to this artistically inferior version.

The final textual variant is of slight import: the rarely encountered quadruplet-octave alternative at the end of the work. Interestingly, among the recordings under discussion this pyrotechnical option is taken only by Vasary, whose performance seems somewhat deceptively the least showy and virtuosic of the lot. Indeed, the only other pianist I have heard play this variant is André Watts (whose rather unsatisfactory Columbia recording with Ozawa has little else worthy of attention). All four of the new releases are reasonably successful, but ironically the most seriously handicapped performance, Kapell’s, towers over the others. Quite apart from the cuts, it suffers from rather poor and ill-balanced orchestral playing and dated sound (which starts out as decent more but falls off badly in the third movement). What a tragedy that Kapell never lived to record the work commercially. From the very first notes, stated simply and luminously, his pianism and musicianship are in Horowitz class. He begins more
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If you prefer... RCA's Ashkenazy/Ormandy version is an instructive corrective. No other recording clarifies the sometimes trivial, sometimes meaningful instrumental comments so well, but at the same time both piano and orchestra have air space in that lushly agreeable ambience. Berman's reading is a good one, but, even with Abbado eliciting...
builds many an impressive climax. Yet his reading, too, is not one that I would care to live with. He is, to be sure, a romantic (with both upper- and lower-case r) player, but the flavor is more akin to Schumann or Chopin. Vasary is as breathtakingly fleet-footed as anyone here the Horowitz, Rachmaninoff/Kapell class, and, while it is admirable that he never exploits his equipment in a tasteless manner, in the end his performance seems disappointingly well bred and even-tempered. Much of the blame, I think, can be laid at the conductor's feet. Aranovich doesn't pull temps to the degree that he did in the First and Second Concertos (DG 2530 717, June 1977), but his rubato nevertheless sounds lame and unintuitive. Nor is the recording outstanding by DG standards; a rather under-recorded, reticent, unforthcoming pickup. Though the individual timbres are true enough, physical impact and individual definition merge into a generalized euphony. The leggiero piano work at the end of the second movement sounds rather dry and prickly.

In the Quintessence/Reader’s Digest issue, the conductor is a strong temperamental asset and the impactive and impressive sound, though it dates back more than a decade, yields only to the much newer Ashkenazy/Ormandy in suavity and meaningful clarity. Wild is a powerhouse technician, and some of his playing is strikingly forward-impelled. It would sound more arresting still were it not so unvaryingly loud of touch. This pianist is rarely attentive to the markings dolce, p, and pp—surely as frequent in the score as ff. Hence the huge climaxes are robbed of much of their effectiveness by want of contrast. Still, Hornerstein’s sharpness of texture (which can almost be described as “barbed”) and the feeling that everything is “in place” give this kinetic rendition an absorbing vitality. Even with its cuts and lack of solo dynamics, this is an attractive (and of course inexpensive) edition.

H.G.

**Stravinsky: Chamber Works. Tashi and guest artists.** [Max Wilcox and Peter Serkin, prod.] RCA Red Seal ARL 1-2449, $7.98. L’histoire du soldat: Suite for violin, clarinet, and piano (Ida Kavafian, violin; Richard Stoltzman, clarinet; Peter Serkin, piano); Septet (Stoltzman, Robert Rouhil, horn; Bill Douglas, bassoon; Kavafian; Daniel Phillips, viola; Fred Sherry, cello). Pastorale (Kavafian, Serkin). Three Pieces for Clarinet (Stoltzman). Suite Italienne (Sherry, Fred Sherry, cello). Pastorale (Kavafian, Serkin). Three Pieces (Ida Kavafian, violin; Richard Stoltzman, clarinet; Peter Serkin, piano). Septet (Stoltzman; Robert Routch, horn; Kavafian, Serkin). Atelier de realissation, the conductor is a strong temperament asset and the impactive and impressive sound, though it dates back more than a decade, yields only to the much newer Ashkenazy/Ormandy in suavity and meaningful clarity. Wild is a powerhouse technician, and some of his playing is strikingly forward-impelled. It would sound more arresting still were it not so unvaryingly loud of touch. This pianist is rarely attentive to the markings dolce, p, and pp—surely as frequent in the score as ff. Hence the huge climaxes are robbed of much of their effectiveness by want of contrast. Still, Hornerstein’s sharpness of texture (which can almost be described as “barbed”) and the feeling that everything is “in place” give this kinetic rendition an absorbing vitality. Even with its cuts and lack of solo dynamics, this is an attractive (and of course inexpensive) edition.

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**SESSIONS: When Lilacs Last in the Door-yard Bloom’d.** For an essay review, see page 70.

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H.G.
the whole thing works here because of the wonderfully spirited and pointed playing. Only five movements of the original score are included in this version, and Stravinsky mavens will be fascinated to examine the transcription in detail, for it isn't simply a matter of the violin and violins retaining their original lines and piano filling in the rest; on occasion, the clarinet and violin even inter-change lines. And Stravinsky's piano reproduction of the Tango's percussion accompaniment is particularly delightful.

The cello version of the Suite Italienne is another of those cases where one has wondered: "Is this transcription really necessary?" Again, the performance, much leaner and cleaner than those by your standard virtuoso cellists and subservient accompanists, provides its own answer. The charming Prelude, with its purring melody and staccato accompaniment, is an old favorite; the other new violin-and-piano recording I have traced, in Columbia's six-disc Szegedi box, isn't really of this transcription, but a straight rendition of the song, without the extensions that Stravinsky added for this and the parallel violin-and-cello solo playing here isn't perfectly secure, but the piano part is delightfully set forth—in fact, Peter Serkin's command of Stravinsky articulation is one of the disc's continuing delights.

Another is Richard Stoltzman's clarinet playing, notably in the Three Pieces, which haven't been done better in my experience. Stoltzman's tone is more pliable than that of Guy Deplus (on the Boulez Stravinsky record, Everest 3104), and his phrasing more relaxed. Further, he uses the right reed- and string recording (Deplus played the first one on a B flat clarinet instead of the instrument in A that Stravinsky preferred), and he avoids Deplus's rhythmic errors.

From two decades later than the other pieces comes the Septet, an incisively serial work that manages to be both buoyant and knotty at the same time. The players succeed in releasing both these aspects, and this is definitely the recording of choice. Fine, clear recorded sound, and excellent program notes by Michael Steinberg.

VERDI: Simon Boccanegra. 
Amelia Mirella Freni (s) Maria Fauta i Callisti (f) Scilla Gaggero (bb) Jose Carreras (t) Antonio Vescia i (b) Aron Coraggio (dd)
Conductor Gianandrea Gavazzeni (g)

Radio Recorder (r) Tone Recorder (t) Radio Recorder (n) Tone Recorder (l) Radio Recorder (c) Tone Recorder (m) Radio Recorder (s) Tone Recorder (a) Radio Recorder (d) Tone Recorder (e) Radio Recorder (f) Tone Recorder (g) Radio Recorder (h) Tone Recorder (i) Radio Recorder (j) Tone Recorder (k) Radio Recorder (l) Tone Recorder (m) Radio Recorder (n) Tone Recorder (o) Radio Recorder (p) Tone Recorder (q) Radio Recorder (r) Tone Recorder (s) Radio Recorder (t) Tone Recorder (u) Radio Recorder (v) Tone Recorder (w) Radio Recorder (x) Tone Recorder (y) Radio Recorder (z) Tone Recorder (A) Radio Recorder (B) Tone Recorder (C) Radio Recorder (D) Tone Recorder (E) Tone Recorder (F) Radio Recorder (G) Tone Recorder (H) Radio Recorder (I) Tone Recorder (J) Radio Recorder (K) Tone Recorder (L) Tone Recorder (M) Tone Recorder (N) Tone Recorder (O) Tone Recorder (P) Tone Recorder (Q) Tone Recorder (R) Tone Recorder (S) Tone Recorder (T) Tone Recorder (U) Tone Recorder (V) Tone Recorder (W) Tone Recorder (X) Tone Recorder (Y) Tone Recorder (Z)

Simone, despite its growing acceptance as fairly regular repertory, has had a poor time of it in discs, in both quantity and quality—this is only its fourth recording, and just the second in stereo. The current Schwann's list two of the earlier versions (the Angel mono and the RCA stereo), and the other, the Cetra mono, remains widely available at low price in its Everest edition; given the narrowness of the field, I shall give all three some comparative attention here.

To briefly characterize our story to this point: 1) Cetra's effort, circa 1951, is vocally somewhat monochromatic and quiet, but at least vigorously. With a representative full Italian cast of the period and with more mellifluous conducting from Francesco Molinari-Pradelli than we later grew accustomed to expecting from him, it hangs together as a performance, though hardly a memorable one. Unfortunately, its just presentable mono sound has been further devastated by a typical Everest reanchoring. 2) The Angel version (1958), with somewhat clearer though still hardly vivid sound, offers a strangely assorted cast (more comment below) and an intermittently dull, albeit sometimes lyrically pleasing, reading under Gabriele Santini. 3) The RCA street is, regrettably, a generally poor performance with nothing really distinguished about it, under a conductor (Giandrea Gavazzeni) from whom we could have expected better things. In addition, its engineering (dynamically restricted that cannot be comfortably adjusted on home stereo systems) is shabby, widespread spread that turns its performing forces into a Thin Red Line) is of a sort that makes me prefer dated mono.

Which brings us to the new performance, a serious and thoughtful one that is far better recorded than any of the others, and so in a basic way more of a pleasure to listen to. Like the recent Macbeth (DG 2709 062, January 1977), it is based on the current La Scala production, directed by Giorgio Strehler.

Perhaps it will be most helpful if I discuss some casting specifics first. In an opera written for dramatic voices, predominantly of lower range, there has been an increasing tendency of late to cast with lighter, brighter voices (except, oddly, for the role of Paolo once generally taken by high baritones, later, often by light coloraturists). This recording follows the trend in almost every role. Mirella Freni, whose vocal structure is that of the straightforward Franco-Italian lyric soprano, is invading Rethberg/Tebaldi territory. Jose Carreras, well suited to Edgardo or the Maestro Des Grieux, is pretending to a true tenor for part, most effectively taken by such singers as Tagliavini, Martindelli, Tucker. Piero Cappuccilli, who on a clear day is a solid Paolo in the older tradition, assumes Boccanegra for the second time on records.

Freni seems to me to be making the classic error open to full-voiced lyric sopranos in midcareer: A slight increase in weight and darkness in the upper-middle range lends a specious "dramatic" color to the timbre that seems to indicate a more dramatic capability, which it really indicates is the necessity for extra attention to lightness and balance in the voice.

In this part, there are numerous phrases that turn on an arch through this moderately high territory, and at many of these points Freni sounds firm and legitimate. A slight increase in weight and darkness in the upper-middle range lends a specious "dramatic" color to the timbre that seems to indicate a more dramatic capability, which it really indicates is the necessity for extra attention to lightness and balance in the voice.

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mante" in her first scene with Gabriele, sustained top A natural down to a turn firmly grounded on the middle D natural) or to lift an ascending line through a rich lower-middle "mix" (as at "Mi bacio, mi bene-
disse" in the great interview scene with the Doge).

Further, long stretches of relatively quiet dialogue sit in the middle range, where they are supposed to sound not merely easy and pretty, but authoritatively "present" in a way commanded only by a more dramatic caliber of voice. In all these circumstances the best that Freni can summon is more or less well-calculated compromise, either attractive but lacking in the requisite force or unsatisfactory but lacking in the requisite force (noticeably in her shedding of the pleas in the Council Chamber Scene, where a "baby chest" intrudes on G and A flat, too high to be healthy and too thinned to be effective). Interpreatively, she offers perfectly solid, idiomatic phrasing that conveys pleas in the Council Chamber Scene, where the best that Freni can summon is more or less technique and experience to back solid, idiomatic phrasing that conveys.

Driving an overly open tone above the tenor is simply too lean for the music, and able for the new recording. His fine lyric voice no better suited to the music, nothing very individual.

For all this, she must be preferred to RCA's Katia Ricciarelli, who has a pretty lyric voice no better suited to the music, with less technique and experience to back solid, idiomatic phrasing that conveys pleas in the Council Chamber Scene, where the best that Freni can summon is more or less technique and experience to back solid, idiomatic phrasing that conveys.

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The There should be more than the usual near-captive specialized audience for this release by what is one of, if not the, finest of all contemporary brass ensembles. First trumpet Philip Jones and his group (here ranging up to nine other brass players plus a piccoloist and percussionist) play as well as ever and again are recorded to gleaming perfection despite the fact that an anonymous engineer of the Swiss Claves organization has replaced their usual Argo engineer, Stan Goodall.

But in this novel program the ensemble turns from its usual serious and contemporary repertories to pay homage to a batch of trumpet/conductor/arranger/arranger Elgar Howarth's divestissement-settings of Swiss folk and traditional tunes: "Basel March," "The Cuckoo," "Lucerne Song," "Zurich March," "The Old Chalet," and "Berner Patrol." And these along with Howarth's manically elaborate up-to-date variations on Carnival of Venice and Alan Civil's jeu d'esprit encore piece Turunroin--add up to the most witty, sophisticated, and irresistible instrumental musical entertainment imaginable. There are various suites drawn from Walton's Façade. As distinct from the broader, sometimes almost slapstick burlesques of the Scottish Hoffnung Festival and the American P.D.Q. Bach concert series, this is strictly musical humor to be savored not by every audience; however, there is an understanding that gets most entertainment right, but that somehow leaves passion, color, and edge by the wayside. It is a profoundly conservative sort of performance, and for me just doesn't add up to a memorable operatic experience. And by "getting things right" I do not mean to imply a literal quality in the reading—the decisions made are extremely right—but that the dramatic pauses, but to be dramatic, a pause must be filled with something already prepared—transitions must be from and to something of living significance. Where is it?

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In Canada: Superior Electronics, Inc.
Reel Unicorns come horning in. In these days of music cassette domination of the recorded-tape realm, it's a pleasant change in news worthiness to find the first American tape representations of the enticing British Union catalog appearing in the open-reel format. Barclay-Crocker does the admirable Dolby processing for the now-modest price of $7.95 per reel, and the initial program materials are imaginatively diverse.

The great Gervase de Peyer leads off with the first challenge to Benny Goodman's 1964 Columbia propi-
torship of the Copland clarinet concerto. De Peyer and Bernard Jacob's London Mozart Players may softly still one of the rowdier jazzy elements of this music, but they reveal hitherto unsuspected depths in it. No clarinet aficionado can afford to miss Unicorn/B-C D 0314 for either the Copland work or its coupled record first: a jolly yet truly Grand Concerto, Op. 5, by the now-forgotten Finnish virtuoso Bernhard Henrik Crusell (1775-1838).

Then, Brucknerians will find novel illuminations in the Master's first major achievement, the 1848-49 Requiem, and his four orchestral-scoring experiments of 1862, all earnestly sung and played by a vocal quartet, the Alexandra Choir, and the London Philharmonic under Bruckner authority Hans-Hubert Schonzeiler (D 0210). And anyone who finds more in the music of Samuel Barber than I can will welcome the Measham/London Symphony program comprising the First Symphony, First and Second Essays, and Night Flight, a revamping of the Second Symphony's slow movement (D 0342).

For passionate audiophiles (and Herrmanns as well), the prime Unicorn/B-C attraction is D 0237, in which the composer leads the London Philharmonic in two of his finest film-score suites: The Devil and Daniel Webster and Welles Raises Kane. The still gleamingly bright 1968 Pye sonatas and the prodigious wealth of scoring ingenuities might have been expressly devised to demonstrate the outstanding reel-processing technology involved. (By mail-order only from Barclay-Crocker, 11 Broadway, New York, N.Y. 10004.)

Varied Beethoven sonata slants. Back in the ever-expanding music cassette universe, there are distinctively different Beethovenian contributions by pianists Russell Sherman, Vladimir Ashkenazy, and Vladimir Horowitz. The first, who emerged from provincial Bostonian fame only in Advent's 1975 Liszt Transcendental Etudes, is again mighty impressive for both magisterial eloquence and persuasively personal sonality in Sonatas Nos. 4, 17 (Temp- pest), 21 (Waldstein), and 23 (Appassionata), superbly recorded in Advent E 1057 (Nos. 4 and 17) and E 1060 (Nos. 21 and 23). $7.95 each; notes booklet $1.00 extra.

Ashkenazy's interpretations are characterized as much by their youthful ardor as by their assured bravura in the early Sonatas Nos. 2 and 3 and the later Nos. 28 and 30 (Opp. 101 and 109), in London/BST 7026 and 7029, $7.95 each. Of course, most concours are the incomparable Horowitz readings of Sonatas Nos. 8, 14, and 23, conveniently combined in Columbia MT 34509, $7.98. The ultra-cool Moonlight and rhapsodic Appassionata have been available before. in 1974's MT 32342 and 31371, respectively, but the grand-scaled 1964 Pathétique, sonically reborn in flawless Dolby processing, is new to cassettes.

The Stokowski legacy, cont. If one of the two posthumous Columbia releases I referred to last month can be given only qualified praise, the other warrants unreserved enthusiasm. The former, with Bize's two L'Arlésienne and two Carmen Suites (MT 34503, $7.98), is welcome for the return of some Stokowskian old favorites. But the lack of an idiomatic French accent is more evident nowadays than it once was, and the National Philharmonic members are no Philadelphians! However, not only do they play much more dramatically in "The Great [non-Bach] Transcriptions" (MT 34543), but audio technology exploits far more of the imaginative scoring skills than we ever heard in the earlier recordings. The "Fête-Dieu à Séville" from Albe- niz's Iberia, and Debussy's "Soirée dans Grenade" are the largest works here, but there is kaleidoscopic variety in the shorter pieces by Chopin, Debussy, Nováček, Rimsky-Korsakov, Shostakovich, and Tchaikovsky. In several of them with morendo endings, the conductor draws out the final chords as if reluctant to say his last farewells.

Serendipping. Every so often one's listening routine is suddenly and unexpectedly enlivened. Among such pleasant music cassette surprises is Ev-
erest 3407 ($5.98), which presents the "legendary" Lazar Berman not only in top virtuoso form in the Liszt "Funérailles" and Hungarian Rhapsody No. 9, but also in delectable Schubert-Liszt transcriptions: "Der Leiermann," "Tauschung," "Die junge Nonne," "Ave Maria," and "Wohin?" It is better processed than most recent Everest tapes and better recorded than most oldish Russian Melodiya masters.

Outside the Viennese Light Music Society's activities, I don't think I've ever encountered an all-Johann Strauss I program before the Rapt/Straus-Lanner Orchestra's five waltzes, galop, and quadrille—all new to American listeners, at least—by the father of the Waltz King. And they're properly done, too, by a relatively small ensemble featuring concertmaster Anton Straka's solo fiddling (Musical Heritage MHC 5396; no notes: $6.95 list; $4.95 to members of the Musical Heritage Society, 14 Park Rd., Tinton Falls, N.J. 07724).

Then I found quite surprising fascinations in the belated tape release of Vol. 1 in a series of Paganini's works for violin and guitar. The music itself often escapes from its presumed salon genre, especially in the Contabile and Sonata concertante in A in which guitarist Sonja Prunnbauer plays more than a merely accompanying role. But the other six sonatas are disarmingly attractive; Gyorgy Terebesi proves to be a well-nigh ideal Paganinian virtuoso fiddler; and the recording itself is arresting(ly) vital (Telefunken 4.41300, $7.95).

And there are endlessly surprising, as well as expected, delights in the incredibly precocious Mozart Con- forme Mass starring Gundula Janowitz and Frederica von Stade with the Vienna State Opera Chorus and Philharmonic Orchestra under Claudio Abbado (Deutsche Grammophon 3300 777, $7.98; with text); the late David Munrow and his London Early Music Consort's piquant combination of au-
thentic little Elizabethan pieces and modern British short pieces by Vaughan Williams, Peter Warlock, Edmund Rubbra, and Clive Richard- son, all mostly for recorders (Angel 4XS 37263, $7.98; no notes); the ne-
glected Sibelius Symphonies Nos. 3 and 6 finally given irresistibly persua-
sive conviction in the continuing郭

L.-B. Davis/Boston Symphony Sibelius series (Philips 7300 519, $7.95; Tele-
mann "Heroic Marches" with Handel, Valentino (Valentin?), and Boismor-
tier sonata transcriptions in magnifi-
cent, if nonbarouquian, versions by trumpeter Maurice André with organ (RCA Red Seal FRK/FRS 1-7021, $7.98 each; no notes).
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Heart: The Hassles Paid Off
by Patrick MacDonald

Amid all the attention generated by Heart’s phenomenal rise to pop music prominence in the past two years, neither fans nor pundits seem able to get past the fact that two women front the group. Perhaps it was inevitable, since sisters Ann and Nancy Wilson are featured on the covers of the group’s two platinum albums “Dreamboat Annie” and “Little Queen,” their only releases to date. But the repercussions, as manifested particularly in the media—from the cover of Rolling Stone to concert reviews in daily newspapers—have led the Wilsons to insist that, if they had it to do over again, they would not only try to ensure that the entire band was shown on the jackets, but retain control over advertising as well. “The guys give as much as we do,” Ann said recently during a break at Seattle’s Sea-West studio. “It’s their band as much as ours. It’s like the Stones—it isn’t just ‘Jagger’s band,’ ..., it’s the Stones.”

“The more people see us in concert, the more they understand,” added keyboard player Howard Leese. “The early press was aimed at the girls. People would look at a news story and think, oh yeah, two girls. The press’s view is exploitive, though, you know?” Nancy put it more succinctly: “The sexy image is flattering and all that junk, but it gets dangerous. Damn dangerous.”

The point is that it isn’t the two female leads that make the band’s story so remarkable. It’s the fact that

Patrick MacDonald, former program director of KOL in Seattle, is a music journalist on the staff of the Seattle Times.
an unknown group recording for a tiny label (Mushroom Records) in the westernmost province of Canada somehow made it to the top of the international LP charts in the course of one year, and with almost no promotion.

That was in 1976 with "Dreamboat Annie." But Heart goes back to the mid-Sixties, when lead guitarist Roger Fisher and bassist Steve Fossen started a high-school band in Seattle called Army. They wore khaki and played psychedelic rock, a response to the Vietnamese war. "But there was a lot of misunderstanding about the name," recalled Fossen. "especially when we played near the Army base. So we changed the name to White Heart—which nobody understood either." That was eventually shortened to Heart, and

"They slept in shifts, stole fruit from . . . trees, and survived through intermittent club dates."

the group became popular on the local dance-hall circuit. Ann first heard them at a roller rink when she was just getting started as a songwriter/guitarist/singer. At the time she was with Tex Blaine and the Skyway Ranch Boys. "We didn't even play real country . . . because Tex was English!"

After Tex and the Boys broke up, she met Roger and Steve through a mutual friend, and they formed a new band, Hocus-Pocus. Their first gig was in Bellingham, Washington, a college town close to the Canadian border. Roger's brother Michael, who was living in Vancouver, B.C., came down to see the band. "We saw each other and . . . BONG!" said Ann. "It was one of those things where you look at each other and you know. That was in 1971. From then on we were marked people."

Since Ann and Mike wanted to be together, the whole band moved up to Vancouver. It wasn't entirely because of the romance, however: The Seattle area had been hard hit with unemployment, and the music business was suffering. It was healthier in British Columbia, where there was a much larger club/dance-hall scene. "Also, it would be new—like a clean slate," Ann said. She persuaded her younger sister Nancy, a folksinger and guitarist, to come up and join them. Nancy and Roger repeated the Ann-Michael thing (the two now share a home on Lake Sammamish, outside Seattle, not far from Ann and Mike's house), and the entire band moved into a tiny one-room house in West Vancouver. They slept in shifts, stole fruit from the neighbors' trees, and survived through intermittent club dates and frequent forays into western Washington, where they knew they could always draw a crowd.

But times were tough, and more than once, according to Ann, they thought of quitting. She credits Mike Flicker—the group's partner, producer, and engineer—with keeping them together. "Mike has been one of the driving forces behind this band from the beginning," she said as Flicker sat in the nearby control room editing tape. "He never let us get discouraged. He was the one that quit school, went out and pushed the band, got the equipment, even sold his bicycle so we could eat. I know it sounds melodramatic, but he was the one who held it all together. . . . He's an incredibly strong man and motivator."

The fact that Flicker produced and engineered "Dreamboat Annie" in a small, technically old-fashioned sound studio in Vancouver—Can-Base Produc-

Heart's Wilson Sisters Confess: "It Was Only Our First Time!"

Certainly the most incredible story of the year is the Cinderella success of the exciting new band, HEART. In a span of less than six months they've come from virtual obscurity to become perhaps the hottest band in the world today. "Dreamboat Annie" in a small, technically old-fashioned sound studio in Vancouver—Can-Base Productions—certainly attests to his technical prowess. Unlike most of today's transistorized recording equipment, Can-Base is entirely tube-based. Flicker thinks that's the main reason the album has such a full, rich sound. "Dreamboat Annie" was recorded over a three-month period (Ann and Nancy had written most of the material prior to the actual recording) while the band continued to grab every gig it could get between sessions. The lineup was basically Nancy and Roger on acoustic and electric guitar, Steve Fossen on bass, Mike Derosier on drums, Howard Leese on guitar and synthesizer, Ann on flute and—with her sister—vocals. "It was great," she said. "We didn't really know what we were doing, so we just went in and tried stuff and whatever worked, we kept."

Howard Leese was a friend of Flicker's who had been called in to add guitar and keyboards, often working at night while the band was gigging. In fact most of the guitar work on the album is Howard's. "I liked what they were doing," he said, "and, after I finally met them, decided I'd like to join." The feeling was mutual, and Howard became a part of the band in 1975. At about the time "Annie" first came out, So did drummer Mike Derosier, after a successful audition in his bedroom. (He still lives at home with his parents.)

The first single Mushroom released from the album was How Deep It Goes. It didn't do very well. "Ninety-nine with an anchor," was how Steve described it. The band was a little discouraged, but addi-
ing Leese and Derosier had given them new confidence and improved their stage show.

The second single, Magic Man, was not an immediate smash—"Mike would call and say some station in Alberta was playing it, and we'd have a party," Ann said. But gradually, with the help of Mushroom's vice president and general manager, Shelly Siegel (the band credits much of their early success to him), it caught on, first in Canada, then in the U.S.

Having a hit record opened many doors for them, including their first big gigs in Canada as the opening act for Rod Stewart, the Bee Gees, Led Zeppelin, and other big names. "The moment we made it big, I think," Howard said, "was when we opened for Rod Stewart in Montreal. We had just been fired from this terrible disco club in Vancouver because we didn't think," Howard said, "was when we opened for Rod Stewart in Montreal. We had just been fired from this terrible disco club in Vancouver because we didn't wear matching costumes. Just a few hours later we got this offer to open for Rod! That led to breaking Canada's airwaves and from there to the rest of the country."

But gradually, with the help of Mushroom's vice president and general manager, Shelly Siegel (the band credits much of their early success to him), it caught on, first in Canada, then in the U.S.

Magic Man slowly spread to Seattle's and Portland's airwaves and from there to the rest of the country. But keep in mind that a tiny label has a tiny promotion budget. As Ann put it, "It was a grass-roots thing... We didn't get any press at all. The record happened because people liked it."

As if to prove that Heart wasn't an overnight fluke, Crazy on You followed closely on the heels of Magic Man to become their second smash single. And, to further establish their foothold, in 1976 the Canadian Academy of Recording Arts and Sciences presented them with two Juno Awards, one for Best Group and one for Best Producer. By this time, "Dreamboat Annie" was rapidly gaining ground on the Top LP charts, and it looked like smooth sailing ahead for Heart.

But that was not to be. A series of small squabbles with Mushroom Records came to a head in late 1976 when the group returned from their ten-month tour and saw an ad for themselves they thought degrading to sound. It's hard to explain, but when you're an gypsies, six vagabonds traveling from town to town," said Ann. "It has a different feel from the first LP. It's heavier, it's more alive, not quite so sweet-sounding. Derosier's drumming and Howard's piano and guitar style had a lot to do with it—the character of the band changed once they became full-fledged members."

They like to take their time with an LP, allowing the songs to take proper shape. In fact, the writing for the first one took over a year. "Little Queen," however, was written and recorded over a period of three months, since Portrait wanted to get an album out quickly and all of the material the band had developed for "Magazine" had to be scrapped. (There are signs of haste there—including some "borrowed" ideas from Led Zeppelin, one of their inspirations.)

Currently they are in the writing stages of an album scheduled for spring release. "Nance and I usually write the words, and we take them to Flicker, who's always very open and honest," Ann said. "Then, when we have a good idea of what we want, we work with the whole band on the music." She says they don't know how the next album will sound but maintains it won't be as rushed as the last. "Release an album in the spring, tour in the summer—that's our band's biorhythm," she said.

Having risen from nowhere to become one of the world's top rock bands, after going through a crash course in the less palatable results of media attention and the legal intricacies of the music business, the group has—to say the least—matured. They're still unassuming, fun-loving bunch that can be impressed by something like meeting Mick Jagger (which they did recently in London). But they've learned—albeit the hard way—to stick to their artistic guns and to hang together. Ann and Nancy may have been the initial attraction and can't help but be a continuing one. But the last couple of years have fused the band's once-disparate elements into an organic unit.
Input
Output

Instruments and Accessories

Guild Model B-302 Electric Bass Guitar.

Offhand, I would say that 95 percent of the electric basses used in recording are Fender Precisions. And with good reason. They record beautifully, and the sound is consistent from bass to bass, from day to day. Until now, every other bass I've recorded has needed a bit more effort spent to get the sound right—and some never come out right at all. C'est la guerre. But here's something new that shows a whole lot of promise and could actually give Fender some stiff competition.

To begin with, the Guild B-302 is beautiful to look at. It's cut away to the twentieth fret, so you can climb all the way up there comfortably. It features two separate pickups, each with its own tone and volume controls, each with eight pole pieces. That's two pole pieces for each string. This means that you have much more room to bend and pull the strings without losing volume or punch. The machines are well built and hold pitch very well, the rotary pots for tone and volume feel good, and the sound is clean and full.

The B-302 was field tested by James Mason, late of Roy Ayers' Ubiquity, who found that the sound wasn't as warm as that of Precisions he's played, but we both felt that this could have been due to the instrument's newness. The saddles on the bridge are fully adjustable and exposed (you needn't take the guard off—there isn't one). The instrument uses a 1/4-inch jack for output, and comes with a double-ended male phone-plug cord (otherwise known as a guitar cord) and a wipe cloth so your sweaty palms don't ruin the strings.

The best part of all, though, is the sound. Mason was impressed by the B-302's ability to deliver lows and highs without sacrificing one for the other, punch without the rubber-band twang, and good clarity on low notes. He attributes most of these assets to the new design of the pickups, which makes a lot of sense. The B-302 costs $450, can be wired for stereo for an additional $30, and is available with a fretless fingerboard for no extra charge. It still weighs a ton, but considering the quality, it's well worth staying in shape for. The optional 4529B hard-shell case ($95) is sturdy and slim. If you're a bass player, this instrument belongs at the top of your check-it-out list.

Beyer Dynamic Microphone Model M-101N (C). Back in the "old days," about five or six years ago, Beyer microphones all seemed to have had connectors that required more adapters than I had in the studio. Yet when finally put to work they seemed to perform well, if unspectacularly. But in a time when a condenser microphone was as basic as a toothbrush to the professional engineer, nobody I knew got too excited about dynamic microphones, unless they were tried and true. Recently, however, Beyer Dynamic started claiming that their Model M-101N (C) could do wonders for a bass drum. Since the pursuit of a truly satisfying bass drum sound is one of my never-ending quests, I immediately ordered one for review.

When it arrived, we put it to work right away. Now the task of a bass drum, or kick, mike in a modern studio is punishing. It sits near—or right inside—the drum itself, suspended by a shock mount, and hears virtually nothing but the omnipresent thud of the drummer's right foot against an overworked wafer of plastic. Not very romantic work, by any stretch of the imagination, but nonetheless significant. If the bass drum sound isn't right, the track is lost. Imagine a sloppy one on a disco record, or Billy Cobham playing a dull thud instead of a tight snap.

As it turns out, the M-101N (C), despite its rather complex designation, is a straightforward dynamic microphone with unusually pleasing qualities. It has a frequency response of 40 to 20,000 Hz with a rise from 7.500 to 10.000 Hz that seems to give the sound of the drum added character. Most of that sound is in a much lower part of the frequency spectrum and, considering the absorptive surfaces in and around the instrument, getting some natural highs via that high-end-rise adds a nice edge. We had no overload problems (as we have had with some other mikes on the same job) and the 200-Ohm impedance suited our lines just fine.

Just for a change, we tried the M-101 on a solo piano. It didn't yield a particularly special sound, but there were certainly no obvious deficiencies that would make a user think "...well, back to the bass drum." Aesthetics are another positive factor. The housing of this mike is made of brass (plated black) and the resultant heft feels good in the hand. A windscreen and three-conductor cable are supplied, and an XLR male connector is built into the microphone. No more adapters. Even if this model doesn't rate high on the Richter scale for its world-shaking qualities, it is a product...
to be reckoned with. Cost of the M-101N (C) is $159.95.

CIRCLE 124 ON READER-SERVICE CARD

Frap Model T 3-Dimensional Transducer System. The Frap Model T picks up the sound of your instrument and gets it cleanly to the amplifier and ultimately to your ears—in that sense, it works fine. Although the actual transducer is a standard unit, the Model T preamp is new and has been designed to be "affordable" at a suggested list price of $135. The transducer attaches to your instrument by means of adhesive wax, which is supplied with the pickup. The housing for the preamp circuit, a metal box about 4 by 2 by 1 inches, contains an input minijack that mates to a miniplug extending from the transducer and a standard 1/4-inch phone jack to the amplifier. A volume control is located next to the input jack. The Model T uses two 9-volt cells (for $5.95 Frap offers an optional keychain battery checker) and has no on/off switch—or need for one—because the output jack is of the switching type: When something's plugged into it, it's on. According to the manufacturer, which infers the specs from calculations and performance, the system is "ruler-line flat"—from 40 Hz to 100 kHz for the preamp and from 1 Hz to 1 MHz for the transducer itself.

After marveling at the literature enclosed with the Model T, we tested it on a Martin D-28 acoustic steel guitar. We tried five different positions for the transducer, including that recommended by Frap—on the treble side of the bridge. The output was routed to a Fender Twin Reverb amplifier and then to an Ampeg B-15. We observed that the pickup does in fact color the sound of the instrument somewhat (this probably is unavoidable with a pickup of this type), that it picks up string noise (moving from fret to fret), and that it does feed back very easily to both amplifiers. None of these characteristics are desirable, though most are found in varying degrees with all pickups. For that matter, pickups themselves are not all that desirable—just a necessary evil for an acoustic instrument in an electronic context.

Although the Model T is clean and free of hums and buzzes, it fails to deliver the miracles promised. For instance, the flyer claims "No inherent feedback.... Beats mikes hands down!" Yet, on page 5 of the instruction manual, there's a paragraph that tells you to move or face away from your speakers if you're getting acoustic feedback. Those sound like the antifeedback procedures to be used with a mike. So how is that winning hands down? And though the promotion folder asserts that a single transducer "can be attached to virtually any resonating instrument," another paragraph in the manual advises, in a roundabout way, that a single Model T may not work for a piano—two may be required.

The point I'm making is that, although this system is better than acceptable, and perhaps even very good at what it does (it is used by a substantial number of big-name pros), the promotional literature and manual make promises that the Model T cannot deliver, even subject to the hedging later on in the instructions. This is a disservice to the owner that may obscure the good points of a perfectly respectable product.

FRED MILLER

CIRCLE 122 ON READER-SERVICE CARD

CIRCLE 124 ON READER-SERVICE CARD

COMPOSITION WAREHOUSE

Mail Order Discounters Extraordinaire

120 watts RMS SX-1050 $452

per channel

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All equipment is in factory sealed cartons with full warranties.

CIRCLE 9 ON READER-SERVICE CARD

February 1978
The 58th AES: Convention: Digital Is Here
by Fred Miller

During the first weekend of last November, some 4,500 engineers, producers, station managers, salespeople, and audiophiles crowded the floor of the grand ballroom of the Waldorf Astoria in New York—but not to dance. The occasion was the 58th convention of the Audio Engineering Society, a semiannual gathering that is a combination Old Home Week for industry professionals, sales promotion device for audio equipment manufacturers, and instant university for those of a technical bent.

There were many more women attending this convention than ever before, a sign that even in the "technical" world, which was so long dominated by men, understanding and ability have nothing to do with sex.

The "university" segment provides forums for the delivery of scientific papers dealing with a wide variety of subjects: transducers, disc mastering, digital recording, audio in medicine, and electronic music, among others. While these sessions tend to be highly technical, they are sometimes fascinating in their scope. That on digital recording—for which "fascinating" would be an understatement—was filled to capacity, standing room and all. (A detailed look at digital recording—its current state, its potential, and its ramifications for the listener—will be provided by Harold Rodgers in next month's issue.) Briefly, digitally recorded sound is the best you've ever heard, and it will likely revolutionize the audio industry within a few years.

Digital technology was represented at the exhibit section of the convention by 3M Company, which displayed and demonstrated a thirty-two-channel recorder that uses one-inch tape moving at 45 ips, and by Soundstream, Inc., of Salt Lake City, which played a recording of the Boston Pops orchestra on its four-channel machine. Mitsubishi had a two-channel system using quarter-inch tape, as well as a cassette recorder and a PCM (pulse code modulation) disc player for home use. This disc player and a similar version from Teac spin at 1,800 rpm, instead of 33⅓, and read the pits in the record (no grooves) with a beam of laser light. Sony showed a digital-encoding device that can be used with a standard video recorder. Both Ampex and 3M already are marketing digital audio recording tape; 3M is expected to deliver its first studio models this year, and consumer models may be in extensive use within a couple of years. You won't believe how good it is.

In other news on the exhibition floor, Neve had a constant crowd around its Neve/Necam automated console display. In Neve's system, the mix set up by the engineer is entered into computer memory banks and then updated as necessary by simply moving the faders to the new level positions. By using the Necam console, which sits conveniently on a music rack over the faders, mixes done years before may be retrieved with accuracy. No need to strain your brain to remember how you got that magical blend in the horn section.

Automated consoles also were shown by Harrison, whose excellent reputation among its customers has made it one of the major console manufacturers in recent years. With a price schedule that begins around $80,000, Harrison's boards had better include some heavy-duty technology, and they do. The console on display was a masterpiece of engineering with enough circuits available on every fader module to do anything you might need to do, from sending eight cue mixes to equalizing an equalizer from another fader.

Allison Research, maker of Memory's Little Helper, was on hand with its outboard automation system that can be used with nonautomated consoles should the owner decide to modernize. Nonautomated consoles from Audirronics, El/Tech, Tangent, Trident, Peavey, Sound West, and several others were very much in evidence. Audirronics featured a console for sound reinforcement with thirty-two inputs and enough outputs for almost any sound-reinforcement application, plus patching facilities for direct recording on location.

Semipro audio, recognized at this convention as being a major and growing force in the industry, was well served by...
The author drools over the Harrison 4032.

The MCI JH-500—demonstration in progress.

Reprogramming the 4032.

At the Ampex booth: men, women, balloons, and ATR-100s.
Teac's Model 15 mixer is explained to two semipros

3M's 32-channel digital recorder: 45 ips!

Marshall Time Modulator—one of many signal-processing devices on display

some of its top proponents—MXR, Teac, Otari, Peavey, Sound Workshop, Sony, and Yamaha all had displays with friendly, knowledgeable people on hand to explain the tape decks, mixers, phasers, limiters, digital delays, and other accessories now available to a market that five years ago couldn't have cared less. Signal-processing devices were so abundant that it was impossible to see them all. In addition to such perennials as Urei—which now has a digital delay as well as its usual complement of limiters, filters, and equalizers—there were booths for Orange County Electronics, makers of high quality (and high complexity) sound modifiers, and Orban-Parasound, which showed its famous "de-esser" and reverb device.

Aside from digital recorders, there weren't many really new tape recorders for the professional market, but Telefunken had a brand new sixteen-track machine—expandable up to thirty-two tracks—using two-inch tape. And there were more Ampex ATR-100s on the floor than ashtrays. This ATR-100 is a beautiful machine and well worth seeing.

Eventide had a prototype of its Model 1066 (wasn't that the year of the Battle of Hastings?), which is a digital-delay system with sixteen output taps and two discrete output channels. A total of thirty-two programs can be selected by four pushbuttons on the front panel. Eventide plans to market this device "with a catchy name" in the spring.

AKG had a full line of microphones on display, including the C-424, a quadriphonic condenser microphone system. Sony had its "back electret" mikes, and Sennheiser, Beyer, and Electro-Voice all showed their new products. (See "Input Output," December 1977 and this month for reviews of equipment from Electro-Voice and Beyer, respectively.)

Ken Schaeffer Group had long-haired guitarists strolling around the balcony of the ballroom demonstrating the Schaeffer/Vega Diversity system, a wireless device that frees the musician from cords and cables between instrument and amplifier. Ken Schaeffer claims that the system is far ahead of anything available in the field, and it has found popularity with many rock musicians and bands even before being put on the market.

With well over a hundred different exhibitors and several thousand pieces of equipment, it's impossible to describe the breadth of the convention, but for anyone interested in sound, an AES convention is a must. The society publishes a journal and encourages membership, but if you're new to the field you can pay a small fee and attend a single convention. I recommend it; the next one is in Los Angeles in April.
Where, Oh Where Does Your $7.98 Go?

by Sam Graham

While the figures used in this story are typical of the industry, the Embryo Patrol and their record label are fictitious. The author wishes to thank Jay Cooper, one-time president of the National Academy of Recording Arts and Sciences, for his help in preparing the article.

The song Jackie O. Is a Punk Rocker has gone to the Top 10 in England. Its proud creators, the Embryo Patrol, are the first band to successfully combine disco and New Wave, and they’re Europe’s hottest new musical property. And now the news is all over the streets of Hollywood: They’ve just signed with Blank Czech, their first American label, and the long-awaited debut album, “On Maneuvers,” will be out in just a few months.

Lured by the propaganda that will precede the record’s release, you will probably hustle out to buy it at your local emporium. If you look closely at the jacket’s spine, you’ll see “0798” near the bottom, indicating a suggested list price of $7.98 (which, relative to the $6.98, is now the unfortunate rule, not the exception). Pop records can usually be had for well under list, so you’ll pay only $5.29 or $4.99, or whatever discount you can find. But do you ever find yourself wondering what that mythical $7.98 means and where your real $5.29 goes? How much to the record company, how much to the Patrol, to the distributors who deliver the LPs to the stores, to the individual retailer from whom you bought it?

This is a new band. Do they and Blank Czech expect to make a profit on the first album? They may have wowed ‘em at small-club soirees back home, but over here they’re just another fresh-faced contender in the big-money record industry. The bottom line is the number of copies eventually sold, naturally, so the results won’t be in for some time. There are, however, certain conclusions that may be drawn even before “On Maneuvers” is in the stores.

After signing with Blank Czech, the Patrol made what is known as a production deal with renowned producer Lance Svelte. Production deals are increasingly common these days: Svelte will be paid off through the band’s own artist royalties as they roll in (assuming the record sells). Blank Czech has agreed to advance producer and band an “album fund” of $75,000 toward the recording costs of “Maneuvers.” (That sum is fairly standard even for an unknown quantity; many better-known artists’ album funds soar well over $100,000.) If it costs more than $75,000, the Patrol foots the extra bill: if it costs less, they pocket the difference.

It sounds great—lots of support and confidence for the new band from their new label. But there’s a hitch. The Embryo Patrol and their producer will actually receive no royalties until the $75,000 is recouped by Blank Czech. The contracted artist royalty is 10%: 7% for the band and 3% for Svelte. That 10% means 10% of the suggested retail price, which is where that mythical $7.98 comes in. But it actually amounts to a little less than 9% because the record company first deducts its own 10% or so for a “packaging allowance.” So the artist royalty weighs in at about 70c per album sold. Since the entire 70c is first applied to recovering the album fund, the Embryo Patrol will have to sell almost 110,000 records before making any money themselves.*

But by the time they do, Blank Czech will already be in the black, even with its additional $25,000 up-front investment in advertising and promotional support. It’s a system of automatic profits that’s built into most contracts, which, as the following breakdown of costs will show, usually insures that the label will make nearly $1.00 on each album.

Blank Czech records, being only a moderately sized company by American standards, gets its product into the stores through an independent distributor. (Larger companies such as Columbia/Epic

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*The Embryo Patrol’s contract is typical: a five-year pact divided into one year and four “option years,” with one or two albums per year. If the $75,000 album fund for “Maneuvers” is not fully recouped, the unpaid portion will be added to the obligation of the second album’s fund, assuming Blank Czech picks up their option to renew. If not, the record company simply assumes a loss, and the Embryo Patrol goes label shopping.

The author is an editor for Record World magazine.

February 1978
and WEA—Warner/Elektra/Asylum/Atlantic—have their own branch distribution.) Blank Czech will sell "Maneuvers" to its distributor for about $3.65 per copy, theoretically. With various deals for free goods—"Tell you what: you buy seven copies, we give you the eighth for nothing"—the actual figure will come down to about $3.40. Since the company is reasonably sure that the Patrol will hit big here, they've decided on a first shipment of 100,000 units. (Normally a new act's first pressing order is from 25,000 to 50,000 copies.) But while these records have ostensibly been sold at $3.40 a piece, every last one of them is "subject to return." The profits are not counted until an album is sold at the retail level, until the Sam Goody customer rides himself of some hard-earned cash. Every copy that isn't sold will be sent back to the distributor by the store and finally to the record company by the distributor. This process has further implications: Gold and platinum albums (those that have sold 500,000 and 1 million units, respectively) are certified by the RIAA on the basis of wholesale, not retail, sales, which are subject to return. For this reason, according to Jay Cooper, "very frequently in the front pages of the trades you'll see somebody smiling with the president of the company, having just received a gold record: and in the back pages you'll read that the artist is suing the company because he only got a royalty statement for 100,000 records"—the number actually sold.

As Blank Czech collects its $3.40 for each LP sold at retail, the money is distributed roughly as follows:

First, the slightly reduced artist royalty is applied on the first 110,000 units to repaying the album fund. An additional 28¢ worth of royalties goes to publishing, based on an average of 24¢ for each of the album's ten songs. The Patrol writes its own material and owns most of its own publishing rights, so they see the bulk of the publishing royalty. Then 1 1/2% of suggested retail (that $7.98 again), or about 12¢, goes to the musicians' union, so Blank Czech is now looking at a $2.30 figure. Record pressing (and more packaging) costs account for another 60¢, which, along with about 45¢ for shipping and in-house salaries and overhead, reduces the $2.30 to $1.25. Of course, once "Maneuvers" is on the streets, it must be advertised and promoted (Blank Czech has developed a clever campaign: "The Embryo Patrol—they take you back to the womb") at a further cost of about 27¢ per album.

So Blank Czech's gravy amounts to about $1 for every copy of "Maneuvers" sold. They will recover their approximately $100,000 up-front investment ($75,000 for the album fund and $25,000 for initial advertising and promotion) after 60,000 units have been sold; since each of those units yields 70¢ from the artists' royalty and $1 from their own gross profits. Keep in mind that only $42,000 of the recovered $100,000 goes toward repaying the album fund. So if no more than 60,000 "Maneuvers" are sold, the Embryo Patrol...
will still be $33,000 short on their advance, but the record company will have broken even. If they do sell enough to pay it off, Blank Czech will by that time be nearly $50,000 in the black.

The distributor, the middleman between the manufacturer and the store, typically works on a 15% profit basis. After buying the LP from Blank Czech for $3.40, he'll sell it to retailers for over $3.90 (recent increases have resulted in a figure nearer $4). But only the larger retailers, including such chains as Sam Goody, Tower, and Discount, will pay the under-$4 amount. The smaller outlets—such as the so-called Mom and Pop stores—will pay almost $4.25 since they are not high-volume operations and must buy from yet another middleman, the “one-stop” distributor. Unlike WEA or Columbia or Blank Czech’s independent, which distributes only one or two record labels, one-stops carry many labels, so a smaller store can take care of all its needs at a single distributor, as its smaller volume dictates.

One-stops buy their records at basically the same rate as Tower and Sam Goody, so they must make their profit from Mom and Pop. They in turn make their profit at your expense, and the obvious moral of the story is you’ll find lower prices at the larger, higher-volume record stores.

So it all comes down to you and your $4.99 or $5.29. (It would be your $7.98 were it a name act.) To be sure, Blank Czech would like to attract enough buyers to not only deplete the first 100,000-copy shipment, but to set the presses rolling again at furious rates. But if “On Maneuvers” sells only 70,000 units, it will still be considered a success and a good foundation for future albums by the Patrol. Many companies, in fact, are content to break even on a new act’s first, especially if the act is shaping up as a successful concert tour attraction. But the Patrol probably won’t be an overnight sensation here—it will take time and heavy promotion to establish them as the uncontested masters of a form so technically exacting, yet so blissfully ephemeral, as disco/punk.

*Many publishers employ the services of the Harry Fox Agency, which is essentially a collection agency for these so-called “mechanicals” or publishing royalties. (The agency will take about 3% of the amount it procures.) There are also other publishing royalties, outside of those obtained strictly from the sales of this LP: airplay, cover versions by other artists, use of a song on TV or in a movie, sheet music, jukeboxes, etc. These will be discussed in a subsequent article.

*The I2c is split evenly by the union into two separate funds. The first, the Music Performance Trust Fund, covers musicians’ fees for free concerts in parks, hospitals, etc. The second, the Special Payments Fund, is paid to the session musicians who performed on a particular record (in the Patrol’s case, no session players were employed); it is payment above and beyond the regular union scale wages paid to the musicians.
Contemporary Masters Series: Davis, Mulligan, Parker, Young

by John S. Wilson


The Lester Young Story Volume 3, Enter the Count. Michael Brooks, producer. Columbia JG 34840, $8.98 (two discs). Tape: JGA 34840, $8.98.

Like all the other major record companies, Columbia missed the boat on bebop, not to mention—as CBS Records President Bruce Lundvall candidly admits—most of the jazz flow of the Forties and Fifties, with the notable exception of Miles Davis. To make up for this lapse, the label has come out with a series of LPs that focuses on those years. The Contemporary Masters series draws its material from three sources: air checks (most notably those of the legendary Boris Rose), amateur concert recordings, and recordings in CBS's own files, most of which have not been previously released. The second and third Lester Young volumes are an exception in that most of the material was well distributed initially and has been reissued in scattershot fashion since.

"Summit Meeting at Birdland" projects the flavor of the early '50s broadcasts from that "Jazz Corner of the World." (Birdland closed in 1965 and was replaced by a Latin disco, Casablanca II.) We hear, very briefly, the voice of Charlie Parker, as well as that of Symphony Sid Torin doing his effusive introductions and his insistent pitches for the club ("One dollar admission—how could you go wrong?"). Bob Garrity, Sid's stand-in, is also on hand.

One side contains a 1951 broadcast that brings together Parker, Dizzy Gillespie, and Bud Powell, the three outstanding gurus of the bop movement. The cuts are some of the most frequently played standards of the era—Anthropology, Blue 'n Boogie, 'Round Midnight, and Night in Tunisia—and, while all three musicians fly fluently through the up-tempo numbers, it is Parker who is the consistent vitalizer, who adds an extra lift to the ensembles, and whose solos have the most finished quality. In general, the sound is thin but not objectionable; although Midnight's slow tempo does emphasize the wobbly nature of the recording.

Side 2 is a 1953 broadcast of a Parker quartet that includes John Lewis on piano and Kenny Clarke on drums. The
spotlight is more consistently on Parker here, and his performances are light, airy, and fluent. Lewis at this point already had this strong, insistent piano pulse that later developed into the swinging core of the Modern Jazz Quartet—although he plays a more modest, even role here, especially in his solo work.

The only other live-performance disc that CBS managed to get out in time for the launching of the series is the Miles Davis-Tadd Dameron Quintet at the Paris Festival in 1949. In Davis' case, it's a very revealing set. He was a thoroughly frustrated trumpet player in the mid-Forties, trying in vain (and with much public embarrassment) to emulate the dazzling virtuosity of Dizzy Gillespie. But by 1949 he was coming to terms with his own capabilities and had discovered, in his so-called "Birth of the Cool" nonet, the laidback, low-key manner of his own potent style. Those particular performances find him playing with the flashing flair that had eluded him earlier and using a very warm, open, singing attack on ballads. Echoes of Lester Young run through James Moody's tenor saxophone lines, while Dameron plays some two-handed, chorded piano that is unusually full and driving for the basically single-noted bop era. The sound is thin and tubby at best and, in some sections, is on a level with the scratchy old 78s on which we used to listen to the jazz of the Twenties.

The third basic source for the series is represented on "Gerry Mulligan, the Arranger." One side of it is previously unsued material by a fifteen-piece band led by Mulligan in 1957—a predecessor of the Concert Jazz Band he unveiled in 1960. His arrangements are rich, full, and flowing, a colorful backdrop for his bumptious swinging solos, the meditative counterpart of Bob Brookmeyer's valve trombone, and some very airy saxophone solos by Lee Konitz and Zoot Sims. Other material includes two Mulligan-arranged numbers—"How High the Moon" and "Disc Jockey Jump"—played by Gene Krupa's band in 1946 with a magnificently crisp, clean sound, and "Between the Devil and the Deep Blue Sea" and "Elevation" as arranged for and performed by Elliott Lawrence's orchestra, which used a softer, mellower sound than Krupa's. Mulligan is heard only once with these two bands, on a 1949 solo with Lawrence that has a soft-edged vanguardish (typical of the sax style of the time and strikingly different from the firmness and assurance of his solos with his own orchestra eight years later.

Despite the fresh material contained in these three discs, the gems of this first batch of releases are in the Lester Young volumes that continue the chronological issue of everything he recorded for Columbia. Vol. 2 focuses on Lester's years as part of the basically Basie groups that backed Billie Holiday, while Vol. 3 represents him and the Basie band when they moved from Decca to Columbia. There are several alternate takes in each set, and, although the Holiday sides will be familiar to most of her followers, there are still surprises. Revealed here are the talents of Countess Margaret "Queenie" Johnson, a pianist who played one delightful solo on You Can't Be Mine at a 1938 session and then went back to Kansas City, where she died, according to Jo Jones, "at twenty-one or thereabouts." (One of the consistent delights of these volumes is Michael Brooks's notes. They defy tradition by taking a totally irreverent attitude toward the dreamier aspects of grinning out records, for a mass market.)

While Vol. 2 concentrates on the warm, loving Lester, with Basie he comes in all emotions and reaches a peak on the glorious Taxi War Dance (two versions) a virtual Basie-Young duet. There is also one more Billie Holiday session and three strange efforts to team Lester and Lee Castle, who plays commendable Buck Clayton-style trumpet, with organist Glen Hardman. It didn't work, and yet in a way it did. As Brooks points out, "Amid the burbling and the hiccuping there is some of the best Lester Young ever put on wax."
This delicious album shows just what we've lost from the production overkill that has afflicted so much black music in the last five years. During the early 1970s, the Emotions were part of the Stax stable. When the label folded, Earth, Wind & Fire's Maurice White steered the group to CBS, where they have made two highly successful albums in the new mass-market vein. Now Fantasy Records has begun reissuing some of the old Stax catalog, and "Sunshine" is part of that venture—a bunch of singles, backed by Stax house musicians, none of them previously released on albums.

The result is pure and amazingly cohesive joy. Without once departing from the classic framework of female group rhythm & blues, "Sunshine" is as rich and varied as anything I've heard in months. With only one exception. Any Way You Look at It, every number positively drips with tasty touches in arrangement, singing, and playing. Confining small references to r&b styles of the past add up not to a pastiche or a nostalgia binge, but to a loving use of what, by the time these tracks were recorded, was a fullblown tradition. Most of the arranging and performance was solid enough to make the songs instant standards. What could have been a golden-olive rehash comes across sounding fresher than most of this month's new recordings.

That's partly because of the sheer quality of the tracks, but it also stems from the album's origins. First, singles (real singles, as opposed to "off the album" singles) lend relatively little opportunity for producers' self-indulgence. Second, the songs are all by different people—and songwriters at that—from Carl Smith to Bill Withers. Third, different production styles also add to the album's variety of flavor. There's a cultist view, which rings truer as albums get more pompous, that the best r&b is confined to singles. "Sunshine" adds evidence to that viewpoint.

Mary Kay Place: Allin' to Please. Brian Ahern, producer. Columbia PC 34908, $6.98. Tape: • PCFT34908, • PCA 34908 $7.98.

Many were eager to—and did—attack Mary Kay Place's first album as being false and synthetic. Farmgirls, they reckoned, could become country singers, but actresses could not. I didn't agree. I didn't approach the LP with an open mind. Only to discover that it stunk. Her singing was awkward, the lyrics were too given to cuteness and satire, and the music was mundane. It was the sort of drool hymn to the filter tip that satisfies. All things considered, I'd rather listen to Mary Kay Place than Dolly Parton. N.T.


On "News of the World," Queen is finally trapped by its own calculated rock heroism. From the beginning, this English quartet has distinguished itself chiefly through stylized choirboy harmonies and an assured pose of star-dom as a fait accompli. But while the harmonies remain as prominent as in the past, the continual reiteration of the will to win sounds increasingly smug or contemptuous, depending on the song. The members are stars now, yet they appear to have found little else to sing about.

Of the eleven songs included, at least half are obsessed with fame, often confusing it with freedom, justice, and other states of grace, yet always homing in on recognition as the principal goal. We Are the Champions, released prior to the LP as a single, offers this narcissism in its purest form: A heavy metal plagiarism of My Way, it employs the same ascending melodic shape for its verses, offers similar proud boasts of strength in the face of adversity, and incidentally contradicts the band's earlier identification with its audience. "No time for losers, we are the champions." They sing to a melodic fragment that sounds disconcertingly like the jering chants cruel children use to torment their victims. If that comparison sounds exaggerated, We Will Rock You, another slice of pure self-assertion provides more evidence. It is an a cappella chant paced by the sort of ominous foot-stomping tattoo common to bloodthirsty crowds at rugby matches or football games.
The Dahlquist DQ-10. Time...and Time again.

Critics and audiophiles agree—the listening quality of the DQ-10 is unexcelled. What accounts for its superb performance?

**Time**

Much credit for its smooth coherence must be given to the precisely matched transient characteristics of the five drivers. And, a good deal has been written about the DQ-10 and its extraordinary solution to the problems of time delay or phase distortion. It is not surprising that other high quality speaker designers have followed suit in offering their versions of time delay correction.

...and Time Again

The real "secret" to the unprecedented performance of the DQ-10 lies in Jon Dahlquist's patented method for reducing diffraction, a more audible and destructive form of time distortion. The separate baffle plate on which each driver is mounted is dimensioned to minimize diffraction in the frequency band in which it operates. Thus, the effect of the sound we hear is that of a driver mounted in free space, without obstructions or surfaces to distort the original sound source.

It can be said that the DQ-10 eliminates inaccurate reproduction caused by time elements—inertial time delay, and diffraction time delay—distortions that limit the performance of conventional speaker systems.

That's why the more critical listener will select the DQ-10. Time and time again.
Lead singer Freddie Mercury has always played off a gauche melodrama against a champagne-and-diamonds delivery that he attributes to traditional pop stars like Frank Sinatra and Liza Minnelli. And here those extremes are typified by familiar Mercury poses—particularly the feverish satyr and the jaded sophisticate. Those are the poles of Queen's rococo heavy metal style and betray their underlying cynicism, especially on the odious Get Down, Make Love, an utterly graceless, loveless view of sexual aggression that makes Led Zeppelin's most preposterous phallic hymns like Heartbreaker and Whole Lotta Love sound like Schubert's Lieder.

The other, more traditional facet of Mercury's approach surfaces in the precious, after-hours-cabaret ambience of My Melancholy Blues, which embodies the singer's camp apprehension of torch singing while bringing him no closer to an understanding of its emotional imperatives; he sounds appropriately weary, to be sure, but the lyric's vulnerability is just another pose.

Musically, the band attempts to offset its recent fondness for larger-scaled studio epics by including several stripped-down, hard-edged rockers closer in style to their earlier records. That move suggests a new awareness of the emerging punk/New Wave sensibility, especially on drummer Roger Taylor's grinding, pointlessly vituperative Sheer Heart Attack. But given Queen's past obsession with the Big Time, the shift doesn't work. They can't have it both ways. try as they might, and "News of the World" precisely exemplifies the kind of self-importance that the best New Wave artists attack with such relish.

Production, as always, is a canny balance of densely textured multiple overdubs (especially on vocals and guitars) and razor-edged solo highlights. But the content is wearing thinner, the poses are dangerously familiar, and the down side of their trajectory seems imminent. S.S.

**Boz Scaggs: Down Two Then Left.** Joe Wissert, producer. Columbia JC 34729, $7.98. Tape: • JCT 34729. • JCA 34729, $7.98.

Boz Scaggs has been fine-tuning his synthesis of contemporary rhythm and blues with pop and rock elements since the inception of his solo career, and the success of his last album, 1975's "Silk Degrees." has proven the underlying pragmatism of that direction. Its successor, "Down Two Then Left," accordingly preserves the last efforts' smooth mix of crisply rendered rhythm playing and spacious string, horn, and choral coloring.

While the new album is clearly designed to consolidate the commercial appeal enjoyed by "Silk Degrees," neither Scaggs nor producer Wissert can be accused of merely duplicating the earlier work or emphasizing its tasteful integration of strong dance rhythms as an inroad to disco play. If anything, "Down Two" is almost too respectable. There are several attempts to simplify the arrangements in search of a more restrained and explicit r&b style, as on Hard Times, the first single and one of the more haunting songs here. Those re-
Never Caine) makes that shift seem less utilitarian, though. And the craftsmanship displayed throughout the record has been a constant of Scaggs's career. Some of these songs will probably emerge as radio favorites, putting other records to shame with their classy intelligence. For much of the audience gained during the success of "Silk Degrees," the new album will be just what they hoped for. But for Scaggs's oldest fans, "Down Two Then Left" sounds like a holding action, albeit a respectable one.

Hank Williams Jr.: The New South.
Richie Albright & Waylon Jennings, producers. Warner Bros. BS 3127, $6.98. Tape: MS 3127, $7.98.

Hank Williams Jr. made his professional debut in 1958. He was eight years old, and he sang his daddy's songs—the songs of a stranger, for the son had no memory of the father who had died in 1953. The debut was a morbid spectacle, and for years the career that followed was merely a continuation of that spectacle. The Only Begotten Son of Hank recorded for MGM, just like his daddy. The records were not good. Some, like his 1964 duets with Connie Francis, were so bad they could make your flesh crawl. Then, in the late Sixties, the boy began to sing for real, and to write for real. By the time he turned twenty-one, he was one of the most brilliant artists in country music. He is now a far better writer and singer than his overly esteemed father ever was. If such a statement is heresy, so is this album.

Of the many who sing of the South, I can think of only three whose visions transcend tedium: Randy Newman, Delbert McClinton, and Hank Williams Jr. (Lynyrd Skynyrd now gone). In New South, Hank rejoices that there is no New South: "the Florida girls still wear no underpants and we all get drunk at the football game."

Hank's personal reworking of Steve Young's Montgomery in the Rain—like Hank, Standing in the Shadows, Living Proof, and Daddy in previous albums—tells of the curse and the blessing of being Hank Williams' son. But even more telling is a menacing, mean version of his father's 1949 hit You're Gonna Change (Or I'm Gonna Leave), a performance that assaults with wrath the spectacle of those youthful sideshow years. Like much else here, the cut rocks harder than most rock & roll; it's a sort of country music shorn of sweetness and poise. In other words, the real thing. N.T.

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Rick Danko & Levon Helm: Two Band Members Go Solo
by Sam Sutherland

With the Band dismantled as a touring unit and recording plans nebulous at best, the arrival of the first two solo albums from its members tests not only the durability of the quintet's legend, but several assumptions about its evolution. Its emergence in the progressive rock milieu of the late Sixties challenged a number of then-dominant trends, not the least of which was the rock star system. In contrast to its more self-conscious peers, the Band had no stylistic distinction; its strength emanated instead from a true ensemble approach that sounded revelatory alongside the monolithic dynamics and extended solos of the day. Its five principals weren't paragons of hipness, but maverick adherents to an older tradition that prized experience as much as the energy of youth.

If the group had no front man, its ranks did suggest a subtler hierarchy—at least to critics. Robbie Robertson rarely sang more than a few lines of backing harmony, and his brilliance as a guitarist was compressed in brief but bracing solos and delicate ornamental comments on his partners' playing. But the group's thematic concerns and coherence were generally attributed to him. It was Robertson the songwriter who supplied the Band's historical sensibility and its recurrent theme: the vanishing innocence and vitality of America.

That bassist Rick Danko and drummer Levon Helm should embark on separate solo careers challenges the legend of Robertson's supposed control over the ensemble's mood and message. Both albums allude directly to the original arranging style as well as its thematic perspective; it is the degree of variation from that style that sheds new light on how actively each musician contributed to the original process. Both "Rick Danko" and "Levon Helm and the RCO All-Stars" succeed as credible extensions of their respective authors' personalities and further suggest that the Band's seminal arranging approach and song sense were indeed arrived at collectively. At the same time, neither set quite approaches the scope or intelligence of Robertson's best songs as performed by the original quintet.

In Helm's case, that gap is less obvious because he isn't really trying to reincarnate the earlier style. While he has co-written one song, he isn't a songwriter, and his choices as an interpreter reveal a much more traditional range of interests than either Danko's or Robertson's. The songs are evenly divided between originals by members of the All-Stars and vintage r&b. And it is the down-home wryness and the central topic—romance in the real world—that unify the material. Without the burden of a more serious objective, Helm and the All-Stars—Booker T. and the MGs, a crack horn session, Mac Rebennack's keyboards, Paul Butterfield's chugging harmonica, and Helm's spare, snappy drumming—can focus on playing. The results are predictably close to the Band's later recordings, which likewise balanced concise rhythm arrangements against crisp horn parts, but the overall feel is more relaxed and less mannered. Helm's affable vocals hold the session together without obscuring the band's playing. And the MGs sound particularly tight and energetic as the foundation, working in the classic Memphis style they helped create a decade ago, rather than in the elaborately modernized variants used since their reformation.

On the best songs—Rebennack's "Washer Woman," Helm's "Blues So Bad," Earl King's "Sing, Sing, Sing," and Chuck Berry's lesser known and atypical mood piece, "Havana Moon"—the confidence of the playing more than compensates for the slightness of the material's overall content.
Danko, on the other hand, strives for a more explicit continuation of the old group’s style. And while his best songs cut deeper than Helm’s, capturing the taut, nearly hysterical energy of Danko’s best performances in the Band, his lapses are more jarring. The personnel varies more from song to song than on Helm’s set, yet a common reverence for the Band’s trademarks inhibits marked stylistic divergence: As Eric Clapton, Ronnie Wood, Doug Sahm, and Blondie Chaplin switch off on lead guitar, each subordinates his own style to follow the Robertson primer. When Robertson himself appears in that capacity, the difference is obvious. On Java Blues, a whimsical rocker whose tone undercuts Danko’s anguished singing to comic effect, he drives the session harder and faster than is done at any other point on the album. His wonderfully wired, crackling lead playing is the perfect illustration of the song’s feverish worship of the dread toxin, and when Danko desperately endorses “the only pick-me-up that’s here to stay,” those razor-edged guitar lines are convincing testimony that coffee is the ultimate drug. As a result, a track that likely started as a throwaway becomes the LP’s best.

Danko’s power as a vocalist and some excellent songwriting by Bobby Charles and Emmett Grogan provide other highlights on What a Town, Tired of Waiting, and New Mexicoe (sic). The first captures some of the Band’s early ebullience; the latter two share the restlessness of much of Robertson’s writing and Danko’s early collaborations with Bob Dylan. A separate identity emerges on those two cuts, one less preoccupied with generational problems and more with private conflicts of the spirit. And on Brainwash, another track that gradually establishes a convincing desperation, Danko lends a certain fractured surrealism to its imagery, despite a somewhat awkward lyric.

Yet those peaks only reinforce the album’s overall reliance on the Band’s master plan. Whether or not he is trying to compete with those earlier records, Danko’s current solo style is in danger of being overshadowed by his past association. While the best songs partially justify the risk, Helm succeeds in separating himself more effectively from the past at the cost of a thematic gravity he appears to care little about.

Rick Danko, Rick Danko, Rob Fraboni, producers. Arista AB 4141, $7.98. Tape: ATC4141, AT 84141, $7.98.

Levon Helm and the RCO All-Stars. Levon Helm and the RCO All-Stars, producers. ABC AA1017, $7.98. Tape: 5020 1017, 8020 1017, $7.95.

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The America songbook is soft-sell, tender, and melodious but, at the same time, uncompromisingly swinging. Much of the material features heavy-artillery left-hand sixteenth notes that slug it out with right-hand counter-rhythms, and the folio becomes a mined field too dangerous for the average Joe. If America wants to make music, not war, a change of notation strategy is in order.

Best of the Doobies. WBP, 11 songs, $6.95.

This folio contains Takin’ It to the Streets, Listen to the Music, and nine other chart busters, most of which are notated as rhythmic instrumental figures with the vocalist supplying the melody. It will require the best of your piano technique, especially since the Doobies have seventy fingers and you presumably have the regulation ten.

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New York, New York. UA, 16 songs, $4.95.

New York, New York is not a completely original movie score, but a combination of twelve evocative band-vocalist standards of the ’40s (Don’t Be That Way, Once in a While, Honeysuckle Rose are a few), with some incidental music by John Kander and Fred Ebb. Those two minstrels have spent a decade at the court of one particular queen; the challenge is to assert your own voice and good taste and avoid becoming Instant Minnelli.

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