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OCTOBER 1981



North Central Studio Suppliers MARKET FAVORS VALUE, EYE TOWARD VIDEO

According to the people who supply equipment to the recording studios in the upper midwest region of the U.S., their clients tend to be more involved in jingle work than music projects. The feeling seems to be that while commercial recording is growing in volume and sophistication, music studios outside of Chicago have felt a pinch as artists have equipped themselves with budget 4 and 8 track systems to make their demos at home. Says Jonathon Lipp, of Full Compass Audio in Madison, Wisconsin, "There are so many of these basement and garage studios now that many musicians only go into the big studios for a very serious project. The smaller scale recording that was the bread and butter of the medium size studio doesn't exist anymore, because people are doing it themselves."

As the jingle work has become a larger share of business, value, quality and resaleability have played a larger part in the buyers' shopping habits. "This is a turnabout from previous years," says John Loeper of Flanners Pro Audio in Milwaukee, "when people would buy anything you put in front of them. Now people are becoming far more conscious of what they're purchasing. They are checking with different dealers to get better deals and more opinions before they buy."

Jerry Milam of Milam Audio in Pekin, Illinois, also stresses that value is a primary concern and feels that the buying market is going for the cost effective equipment. 'The people who were spending \$80-90,000 for a console a year or two ago, are now looking at the \$30-60,000 console because the quality is there and money is tight. I have been preaching for years that studio owners should get rid of the ego and get down to the hard facts of the financial ability of the studio, which is far more important."

Video is looming in the expansion plans of many studios, according to John Borman of AVC in Minneapolis, although he notes that, "For the most part we are seeing video people *buying* better audio gear, while we are seeing audio people *preparing* to get into video."

In areas where the economy has taken some of its greatest tolls, things seem to be on the rebound. "I am definitely seeing the light at the end of the tunnel," says Henry Root of Ann Arbor, Michigan's Hy James Audio. "We are very busy now with several studios investigating video coupling and a lot of interest in sixteen and eight track equipment." Many suppliers have also diversified to find clients for recording equipment. Bill Schuermann of Antech Labs, in St. Louis, has found that, "While there has been little expansion at the major studio level, we have seen extreme growth in industrial sales to the corporate type companies who are building their own jingle rooms. These are usually no larger than eight track operations but the business has been very, very good."

AES 70th Convention

The 70th Version of the Audio Engineering Society Convention will convene October 30, at New York City's Waldorf Astoria Hotel. The four day event will feature 75 technical paper presentations, six floors of technical product exhibits from 185 manufacturers, a special Tape Machine Maintenance Clinic and ten Workshops in such areas as Audio/Video Interfacing, Synthesizers and Electronic Music, Sound Modification Devices and Basics of Mixing Consoles and Applications.

A large U.K. contingent, 23 strong, will exhibit professional audio equipment at the AES $% \left({{{\rm{AES}}} \right)$

Convention. Among the British products on show at the Waldorf in New York will be amps, technical publications, components, consoles, speakers, mikes, mixers, recorders and record cleaning aids.

FAS Relocates

FAS Audio Services, resulting from the recent merger of Filmways Audio Services and ACI/Filmways, has moved to 5219 Craner Ave. in North Hollywood, California. According to FAS president Larry Metz, the 12,000 square foot operation is equipped for sales with sophisticated demo facilities; full service department, headed by Glen Eckes; and a rental department with over \$2 million worth of inventory. Rental manager Rick Convers has already gotten the rental division off to a big start with contracts for the Billboard Video Show, the L.A. Rams' broadcast sound and a gala 50th anniversary party for Julio Gallo in Modesto, California, featuring the San Francisco Symphony, Frank Sinatra and a \$20,000 rental bill for FAS sound equipment.

notes

The second annual Wally Heider Garage Sale will be held October 23, 24, and 25, at the old ACI premises at 7138 Santa Monica Blvd. in Hollywood, Many LA studios will be contributing to the audio swap meet. For more information, contact Ike Benoun at 213/877-9711...Otari Corporation, the Northern California based professional tape recorder manufacturer, has announced the appointment of Mr. John Carey as Product Manager...Soundcraft Electronics U.S.A. has announced the appointment of Northwest Marketing, Inc. as their manufacturer's representative for professional mixing consoles in Washington, Oregon, Alaska, Western Montana and Idaho...TDK Electronics, manufacturer and marketer of quality audio and video recording tape products, held groundbreaking ceremonies on August 17th for its new American headguarters facility in Port Washington, New York ... Ray Combs, Vice President of United Recording Electronics Industries, has announced the appointment of Garry Margolis as Director of Sales...Furman Sound, Inc. has moved into larger guarters at 30 Rich St. in Greenbrae,

California. Diane Poole has been named Furman's new National Sales Manager...The Board of Governors of the Chicago chapter of NARAS has elected Robin McBride. President: Paul David Wilson, 1st Vice President; David Webb, 2nd Vice President; Tony Rufo, Secretary; and Hank Neuberger, Treasurer; with Chuck Suber, Chuck Colbert and Murray Allen as Trustees for the 1981-82 term...Nortronics has retained Audities 2001 of Denver, Colorado as its manufacturer's rep for Montana, Wyoming, Colorado, Utah, Southeast Idaho, New Mexico and El Paso, Texas...Dr. John D. Holm has been appointed technical director of 3M's Magnetic Audio/Video Products Division...Imaginearing Audio, of Milwaukie, Oregon, has undergone staff & executive changes. The new line-up looks like this: Albert Troutman-Chairman and Chief Executive Officer, Robb Bacardi- Sales, Bob White-Media Placement, and Carol Derrington—Public Relations. No longer with Imaginearing Audio are Cliff Miller and Scott Moir who are leaving to pursue other business oppor tunities



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NORTH CENTRAL

At Pearl Sound, in Detroit, Michigan, Rockets drummer John Badanjek and manager Gary Lazar are supervising mixes for Detroit group Radio City. Cub Koda (ex Brownsville Station) just finished production on the second LP by Blue Money (featuring ex Woolies member Jeff Baldori), with engineer Ben Grosse. Ron Asheton (ex Stooges guitarist) producing The State, which includes ex MC5 bassist Michael Davis. Asheton also completed work with The Ragnar Kvaran Group for ATC records with engineer Ben Grosse. Frank Fischer and Geoff Michael at the controls with Belfield & The Cats for Tremor Records with Frank Fischer producing.

At the Chicago Recording Company studios, in Chicago, Soul singer Barbara Acklin recorded her new Chi-Sound single produced by Gener Chandler & Willie Henderson, and engineered by Phil Bonanno and The Ressurection Band, a leading Christian hard rock group, recorded their forthcoming LP for the Light label. The band produced; Phil Bonanno engineered.

The "Storms" from Toledo, Ohio are putting the finishing touches on their album—"Black & Blue." Ron Lehmann producing and Bill Cuson engineering at Tape-Tracks Recording Studio, LaSalle, Michigan.

Recording activity at Studio A, Dearborn Heights, MI. includes, producer Eryck McClinton laying down tracks for self-produced project. Songwriter Mike Hoffhiens cutting tracks with Greg Southwell handling vocals; Eric Morgeson producing. Morgeson at the board for both projects.

NORTHEAST

At Sigma Sound in Philadelphia PA, Gamble & Huff are putting the finishing touches on albums they're producing for Teddy Pendergrass and Patti LaBelle with Sigma's president, Joe Tarsia, engineering.

At Sigma Sound in New York, mixer Francois Kevorkian working with engineers Jay Mark and Carla Bandini on "Inch By Inch" by The Strikers for Prelude Records.

Recently at Blue Rock Studio, New York: Rupert Holmes producing his own upcoming album, Bill Stein engineering. Swollen Monkeys recording an album produced by Hal Wilner for Recent projects completed at Unique Recording Studio, New York City, include Richie Havens, in with Timmy Cappello, producer, recording Timmy's composition "A Part of You", the theme song for a new film currently being shot in New York.

Composer David Amram is one of the winners of \$1,000 in free 24-track recording time at Variety Recording Studio, in New York City. Other winners include "The Pseudos," Sound Concepts of Woodbridge, Connecticut, and Issachar Miron, composer of "Tzena Tzena Tzena."

At Secret Sound Studio, in New York City, David Buskin is recording his new single produced by Jeff Kent, formally of Pierce Arrow, engineered by Jack Malken and assisted by Lisa Romano.

SOUTHEAST

Truc Of America, a rock comedy show band, is recording their first album at Triiad Recording Studios in Ft. Lauderdale, Fla. After several weeks, the self produced project is nearing the mixing stages with all the engineering being done by Michael Laskow, Vincent Oliveri and Robert Corti.

Trusty Tuneshop in Nebo, Kentucky has several projects going on their 8-track Otari. Rodney Richardson finished the first complete song for his up-coming album. Rodney produced his session and house engineer, Michael Cain engineered the session.

Single Bullet Theory has been recording at Alpha Audio Recording Studios, in Richmond, Virginia with producers Carlos Chafin and Barry Gottlieb for the production company of Mad Dog Music for the Messes.

Activity at Reflection Sound Studios, Charlotte, N.C., includes Ted Daryll producing Rick Bowles for Polygram, Ron Carran and Steve Haigler engineering. Eric Aucoin producing PTL Family Album for PTL Records, Bob Whyley engineering.

Fire Flight, a group from Trinidad, at Criteria Recording Studios in Miami recording an LP, with Carl Beaver producing and Bruce Hensal engineering.

SOUTHWEST

From Alexandria, Louisiana Southern Recording & Video Productions, Inc. has completed Chaton Studios in Scottsdale, Arizona just taped the Louis Belson drum clinic on location, Stephen Moore at the board.

From Manchaca, Austin, Texas, Reelsound Recording Company's remote bus has been on the road lately with projects in Austin and Duluth, Minn. for Ted Nugent. Malcolm H. Harper, Jr. was engineering with Mason Harlow and Mark Gitterle assisting.

CBS Records booked the **Omega Audio** Mobile, out of Garland, Texas, for a 24-track date with **Earl Slick** and **Silver Condor** at the Agora Ballroom in Dallas. The recording was mixed later for record release to AOR stations. Engineering was by **Paul Christensen** and **Russell Hearn**. Producer was **Earl Slick**.

NORTHWEST

Current projects at CSS Recording Studios in Las Vegas, Nevada, include Diana Ross producing her own album, her first for RCA. Staff engineer Scott Spain at the board. Also at CSS The Fifth Dimension cutting a new album with Tony Camillo for Venture Productions, Barney Perkins engineering.

Long John Baldry is in Mushroom Studios in Vancouver, Canada working on his next album scheduled to be released by Capitol Records. He has acquired the production services of Vancouver's own Bill Henderson and Brian MacLeod whose many credits include Toronto, Chilliwack, Headpins, The Good Brothers and Kickaxe. Local engineer Rolf Hennemann, has joined them again for this project.

Recent recording activity at Sea-West Studios on the north shore of Oahu, in Hawaii, includes: mainland rock group "TKO" completing their second L.P. with Rick Keefer producing & mixing and "Danny Mirror" from Holland doing an L.P. of Elvis Medleys with the orginal Jordanaires for CBS/Holland.

Recent activity at Angel Voice in San Jose, CA, includes Pablo Telles, author of Suavecito, completing pre-production work for a new album, with Vince Sanchez at the controls and, Pat Kelly is doing overdubs and tracking for his new album on Rock Candy Records, Vince Sanchez engineering.

Currently at Fane Productions Studio, Santa Cruz, CA., The Garcia Brothers wrapping up their latest album for Bullseye Records, Tom Anderson producing and engineering; The

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REVERB TIME --





Secretes putting the finishing touches on their new single for Secret Sound Productions, **Pete Carlson engineering**

At Mobius Music Recording in San Francisco, CA, The Dead Kennedys have completed their compilation album "Let Them Eat Jelly Beans" The Kennedys are presently working on their new EP produced by the band and engineered by Olive DiCicco assisted by Annette Olesen.

Recent activity at Different Fur Recording in San Francisco includes: The David Grisman Quartet tracking and mixing their forthcoming album for Warner Bros., engineered by John Haeny and assisted by Howard Johnston.

SOUTHERN CALIFORNIA

At Soundcastie in Los Angeles, Kasim Sulton of Utopia working on overdubs for his new solo

album on EMI America. Bruce Fairbarin producing, Joe Chiccarrelli engineering, Mitch Gibson assisting.

At Mystic Sound in Hollywood, "Sheiks of Shake" in for a shake-down session with their new bass-player Paul, Ysef Rahmen producing Bill Streitfield.

At Monterey Sound Studios in Glerdale, Ca., Steven Soles producing himself for Good News Records, Larry Hirsch engineering with David Goldstein assisting.

At Fifty Four East in Pasadena, CA, Electric Light Orchestra bassist Kelly Groucutt has completed the tracks for his first solo album project with Llew Horrowitz engineering the A.P.I. custom designed 48 track conscle. Fellow E.L.O. member Richard Tandy sat in on keyboards, while the band was on hiatus before their world

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tour in the fall

At Skylight Exchange in Granada Hills, CA, singer/songwriter Grey Singing Horse is finishing tracks and is soon to begin mixing in preparation for his up-coming record release Grey Horse has backed such greats as Jackson Browne and Taj Mahal. Players on this project include members of the Kenny Loggins, Kittyhawk, and Melissa Manchester Bands.

Richie Furay has been at Mama Jo's in North Hollywood, Ca, recording his next LP release for Word Inc. with David Diggs co-producing with Furay and using Jack Joseph Puig at the controls with Gene Meros assisting. Producer Brown Bannister and Michael Blanton were finishing some final mixes on Amy Grant's live album with Jack Joseph Puig engineering.



Transparent Recording in San Francisco announces the acquisition of a Studer model 169 mixing console. The 10-in/2-out board is primarily for use in live on-location recording.

Faithful Sound Studios of Urbana, Illinois announces the installation of an eight-track Ampex 440B master recorder. According to Chief Engineer Mark Rubel, initial eight-track projects included sessions with The Edge, Erin Isaac, and album pre-production work with Adrian Belew.

Fantasy Records, Berkeley, CA, has acquired two Mitsubishi PCM digital audio recorders and plans to offer state-of-the-art digital recording and mastering services both to its in-house clients and to others in the Bay Area on a rental basis. Fantasy studio manager Roy Segal said the two units are the X-80A console recorder, a twotrack, fixed head unit which Fantasy will maintain in its mastering facility, and the portable X-80 recorder for additional in-house mastering and for rentals. A DDL-1 delay system completes the Mitsubishi mastering package.

Pat McDermott has taken over as operations Manager at City Recorders in Hollywood, CA.

Sound Stage Studios in Nashville has recently updated their "A" studio with the installation of a new Trident TSM console. The console is custom designed with a special 32 meter overbridge and a separate monitor mixing section located on the left side to accommodate the layout of the studio and control room. The Trident console was supplied by Wilson Audio of Franklin, TN.

Nashville's Music City Music Hall recently became the first studio in the United States to take delivery on the two newest recorders from Studer: the A80VU MKIII 24-track with transformerless amplifiers; and the A80VU ½-inch 2-track mastering recorder, also with the new transformerless amps.

At the site of the old Dusk Recording Studios in Santa Clara, Hot Tracks Recording has opened with new owners, new equipment and a new approach to recording excellence. Hot Tracks owners are Don Heinsen and Phil Jamison. Studios _____ Can-Base Productions ____ Capitol Records ____ Celebration Recording ____ Cherokee Studios ____ Columbia Siluvius ____ One recording ____ Cherokee Studios ____ Columbia Siluvius ____ One recording ____ Cherokee Studios ____ Columbia Siluvius ____ One recording ____ Cherokee Studios ____ Columbia Siluvius ____ One recording ____ Cherokee Studios ____ Columbia Siluvius ____ Cherokee Studios ____ Columbia Siluvius ____ Cherokee Studios ____ Columbia Siluvius ____ Cherokee Studios ____ Cherokee Studios ____ Columbia Siluvius ____ Cherokee Studios ____ Cher Wally Heider Studios _____ The Hit Factory _Jack's Tracks Recording Studio _____ teria Recording Studio Kendun Recorders____Konk Studio__ _Delphine Studios____D studio ____ Le Studio. Morin Heights ____ ension Sound Studios arms___Love 'n' Comfort____MCA/ e Enactron Truck____Gro _Master Disc____Media Sound____T ____Hansa Tonstudios____ id____The Mixing Lab____Muscle S se of Music, Inc.____Jacks North American Recording Corpora Kaye-Smith Productions P.S. Recording Studio ____ Pacific Vegas Recording Studio iio____Paramount Recording_____ Longview Farms____Lov Plaza Sound Studios _____Polar N MCA/Whitney Studio____ on____Pumpkin Records____Qu Viddle Ear____Minot Sound_ _Muscle Shoals Sound Studio Quadratonic Sound Studio __Recording Studio MEDIA. va Studio____One Step Up___ ic Recording Studio ____ Param _Remote Truck____Ridge Far t_ _____Phase One Studios_____P _Rusk Sound Studio____ Music Studio ____ Power Station Sea-West Studios ____ Secr s____Quadradial____Quadrato lio____The Shelter Studio___ ecord Plant Recording Stud Sound City Studios Criteria, Middle Ear, Sound Labs & Mediasound AWARDED TO: Barbra Streisand Reel Sound Recording Co. FOR: GUILTY udios ____Sound Labs ____ uck_____Ridge Farm Studio_____F STUDIO Sound Recorder Studios A net of record. This GOLDEN REEL io Malace Sourio Fil Siuvius Studio in the Country Studio Masters Studio One Studio Sound Recorders Sundance Pro-Soundworks Studio Acousti Studio in the Country Trailey Trail Sourd Studios University Descriptions Studio Acousti International Pro-Suurio Virks Suurio Acousii Suurio in me Counitry Suurio invasiers Suurio One Suurio Souna Recording Studios United Sou lance Productions, Inc. Superdisc The Townhouse Trolley Track Sound Studios Virtue Onate The Virtue December of the Virtue Onate Studios Inc. Mining Sound Systems, Inc. United Western Universal Recording Studios Western Western A • D December Average Studios Western Average Studios Western Average Studios Average S United Sound Systems, Inc. ____United western _____Universal necording Studios ______ victor Studio ______ A & R Recording Studio ______ A & R Recording Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio ______ A & R Recording Studio ______ Wishbone Studio _______ Wishbone Studio ___ Apogee Studio Applewood Studios Ardent Recording, Inc. Dale Ashby and Father Atlantic Studios The Au

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Again, thanks to all of you. Sincerely,

eny Milan



by Mia Amato

CABLE: ROCK JUSTICE REDUX

The guiding behind the Grateful Dead's highly successful cable tv debut on Showtime is none other than East Coast promoter John Scher, who provided the seed money for the project that has reportedly grossed over \$2 million in video revenue from pay-tv, videocassette and disk deals. Scher's next project will be to resurrect "Rock Justice," a musical comedy penned by Marty Balin and produced onstage in San Francisco in 1979. Rock video fans my recall that the SF show was videotaped originally for EMI, which shelved the project after the subsequent dismantling of its EMI Videograms division in the U.S.

The new version will be shot in the New York area, with Balin in the lead role and a rock-starsprinkled cameo cast. Len Dell'Amico, who directed the Grateful Dead program, will also direct this shoot scheduled for taping this Winter. The Dead program, by the way, will be released as an RCA videodisk this Christmas.

NEW COMPANIES: LA, CHICAGO

Several new companies announced video/ music projects and services: International Automated Media is launching video post production capability under the supervision of Jim Rose, a video veteran whose credits include tv work with Sonny and Cher, Tony Orlando and Dawn, and Burt Bacharach. Ruggles Reber & Associates have hung out a hybrid-technology shingle in Marina Del Rey following the completion of two programs for VHD videodisk. In Chicago, On Track Productions is attempting a documentary on local bands and the Chicago club scene.

BROADCAST: DIGITAL JAZZ FOR PBS

Master Digital of Los Angeles is handling the final mix for "JazzAmerica," a history-of-jazz concert series airing on PBS this fall. The tv series is the first to feature digital soundtracks and will be simulcast in stereo over the National Public Radio Network. The show is produced by Paul Rosen for KCET-TV. Chief engineer for the project is Arne Frager, Head of Master Digital and Spectrum Studios

videotaped in Avery Fisher Hall, featuring the music of Dizzie Gillespie, Max Roach, Gerry Mulligan and other jazz greats. Location audio was provided by Record Plant-in analog-and mastered on digital at Spectrum using the Sony PCM 1610 digital audio processor. The final video mix was done at Pacific Video on one-inch type C videotape, which can carry stereo tracks.

The television stations will be able to broadcast in stereo directly from the one-inch tape," says Frager, "or they can broadcast directly from the digital tape."

Frager says future concerts in the series will be recorded on digital at various sites around the country; mobile audio and video services will be subcontracted locally. "JazzAmerica" is also slated for videodisk release. "There will also be a series of LPs using the same stereo mix," adds Frager. "That's one of the reasons the project was done in digital-to get that super-high-guality audio. Going to PCM gave us the advantage of being able to mix to a digital master and to tape simultaneously."

CASSETTE/DISK: CHRISTMAS CHEER

The Videography Company is exploring the home video market under the "Synthetic Symphonies" label. The LA-based firm has a rep for award-winning television commercials: the first release is expected to be "a Christmas album" on cassette.

PROMO: CABLE USE UPDATE

Last year the pay television service Home Box Office used record company promo clips to fill 10% of its "intermission" time between features. This year nearly 40% of its programming before and after film showings will be filled by promo. Promo also got a boost when several other satellite networks went 24-hour this year, and programmers turned to free clips to round out telecasts in the wee hours. "We just keep repeating the current clips, especially late at night," confided one scheduler, "but because they're music, they seem to hold up to repetition better than other kinds of programming."

But before you go running off to grab your video camera, bear in mind that the satellite services only air clips from major labels. "Please tell your readers we don't take any promo from independent video producers," warns Lisa Tumble-The First program is a 90-minute concert son of HBO. "I don't care how good it is, it's got to

have a record company behind it." The reason, says Tumbelson, is that cablers feel a band's label should be willing and able to share the responsibility should any legal or royalty problems arise.

Record companies still regard cable's use of clips with some suspicion, and some firms, like the Polygram group, would like to see cable services paying for the use of promo material. That's one reason Polygram will not allow any of it's artists' promos to air on Warner's 24-hour music channel. MTV began telecasting nationwide via satellite on August 1, and has yet to win over more than a handful of record companies to its concept of "radio with pictures." The service responded to what it hopes will be a temporary shortage of clips by playing more "video oldies"- tapes of songs no longer on the charts-and accelerating paperwork on its planned concert "specials."

MTV has a top-40 format, not surprising since its program director is Bob Pittman, lately of ABC radio in New York. At this writing the program is not transmitted live but is videotaped. Besides clips, viewers watch five disk jockeys (they call them VJs) provide the wraparound and seque into commercials—eight minutes an hour. The ad space is, again not surprisingly, a showcase for Warner's record and movie divisions; other advertisers include Pepsi, 7-up, and Bubblicious Gum.

Another problem MTV has is that it can't be seen in any major U.S. city. No cable system in New York, Los Angeles, or the other Top Ten markets has elected to carry the 24-hour channel. But MTV is being beamed to 251 cable systems in smaller cities and towns and it currently claims two-and-a-half million subscribers; industry observers say it's the most successful launch of a cable channel this year.

SHOW DATES: VIDEO ART

Fall is the video festival season-a great opportunity to see creative experiments in form and content. The long-running prestigious Athens Video Festival will be held in Athens, New York October 22-24. This year's San Francisco International Video Festival will be the largest ever, October 24 through November 2. The Chicago Film and Video Festival is also an international event and runs November 6 through 25. Each of these festivals also tours its winning tapes at museums and galleries around the country, and you won't find a better introduction to non-traditional television and video art.



You'd like the outstanding sonics of digital recording for your next project. Problem is, buying a system is expensive, and it could be outdated before you even finish. Using another studio is out because that studio/ artist/producer relationship is not established in one session. What do you do?

Call us. We're Digital Services and we can provide what you want in equipment and expertise at a price that won't peak out your budget. Through us, any studio anywhere can offer digital capabilities to their clients with our highly reliable Sony PCM digital system. Digital recording, mixing, editing, and mastering is only as far as your phone. And, because the system is SMPTE time coded, we can do digital audio for video synchronization and simulcasting. Whatever your project, we'll help you keep first generation quality audio all the way through. After all, our middle name is Service. Now, how do you go digital for a song?



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TUDIOSCOPE

MORE ON digital RENTAL

by Dennis Buss and Chris Haseleu and Los Angeles.

In last month's column we were discussing the merits and options for renting digital recording equipment. We considered the Soundstream and JVC systems and mentioned some of the operations that have evolved to deal with the business of digital recorder rental.

Soundstream is the only digital manufacturer directly involved in the rental business. They offer the DTR 1/8, DTR 1/4, and DTR 1/2 systems. There are 8-track, 4-track, and 2-track respectively. Their rates are as follows:

For Recording:

DTR $\frac{1}{2}$ or DTR $\frac{1}{4}$ --\$120 per hour for the first 3 hours; \$80 per hour thereafter.

DTR 1/8---\$150 per hour for the first 3 hours; \$100 per hour thereafter.

Mastering: \$80 per hour.

(An engineer is provided with the system.)

Shipping and travel costs are additional to areas outside of the service centers of Los Angeles, New York, Boston, Salt Lake, and Nashville.

Tape is \$122 per reel with 50 minutes recording time in stereo and 25 minutes using 4 or 8-tracks.

The Soundstream computer disk editing system is available in Salt Lake

\$150 per hour for the first 3 hours. \$120 per hour thereafter.

Soundstream offers new clients reduced rates. They also have a rate schedule based upon a royalty system. For more information, contact Soundstream, 2505 East Parley's Way, Salt Lake City, Utah 80109. The phone number is (801) 486-4701.

Of the firms that offer other digital rental systems, we have surveyed a few to give you an idea of some of the going rates.

The JVC 2-track system is being offered for rent by several companies including the JVC Cutting Center in Los Angeles. Typical rental rates are those offered by Master-Tech, a subsidiary of Masterfonics in Nashville. Master-Tech offers the BP 90 processor and Umatic recorders along with the AE 90 electronic editing system. The rates are as follows:

Recording \$400 per day Editing \$70 per hour Tape is supplied at \$35 with 60 minutes of recording time.

The Mastering System including delay line is \$750 per day.

Mastering is free if done at Masterfonics.

Hourly rates for all services are also available.

For more information, contact Mack Evans at 28 Music Square East, Nashville, Tennessee 37203. The phone number is (615) 327-4533.

Sony's PCM 3324 24-track system is to be made available late this year. Currently, though, they are guite prominent in the rental of their very compact 2-track digital systems for live recording and studio situations. Digital Services of Houston is one of several companies offering the Sony system. Digital Services is located at 2001 Kirby Drive, Suite 1001, Houston, Texas 77019. The phone number is (713) 520-0201. They offer the Sony 1610 Digital processor and associated Umatic recorders. They also have the DAE 1100 electronic editor. Digital Services is prepared for remote digital recording, using the Sony equipment and a Neve console. The rate is \$750 per day, for the complete recording and editing system. In addition, owner John Moran stressed that a sliding scale block rate is available, and can be tailored to the individual project. He also said that studios in the same area can share the equipment and cost.

3M manufactures a 32 track and a four track unit and most of the firms offering these systems for rental have rates for the machines separately and together. The Los Angeles Record When we say we have "coast to coast" experience in the design and construction of recording studios...



we don't mean N.Y. to L.A.

Whether it's the lvory Coast, the coast of France, or 17th Street in New York City, we bring our special blend of international experience and professional creativity to your project. In Europe and Africa, over the past seven years, we have constructed, from start to finish, twelve audio complexes, more than forty control rooms, studios, cutting rooms, and concert halls.

Our success is based on efficiency, experience, improved design, and control of each detail. Our world-wide perspective has cemented our belief that each project is unique, and we tailor our designs and constructions to your needs. We move with the times, wherever they take us.

We haven't designed a studio as fanciful as the one depicted above, but if you're "game", give us a call.

Andlogiade

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that allows us the use of razor-blade editing in combination with digital recording, thus producing *the most efficient use of current digital technology.*

At last you can record or mix direct to, and master from digital tape at *a cost that makes sense!* The Mitsubishi X-80 two-channel digital recorder can be made available on a rental basis outside of Fantasy Studios anywhere in the San Francisco Bay Area.

For more information call. Roy Segal, Andrea Salter, or George Horn Tenth and Parker, Berkeley. California 94710 • Telephone (415) 549-2500



Plant will rent out the entire system for \$1000/day, \$4000/week or \$12,000/ month. Individual rates are \$300/day for the four track and \$700/day for the 32-track, and longer term rates are also available. Westlake in Los Angeles and Sound Ideas in New York also rent the systems. Bob Shafner of Sound Ideas tells us that they will rent the four track unit with the preview head for mastering applications at \$550/day.

Effective in August, Mitsubishi Electric Sales America Inc. began the short term rental of their X-80 digital recording systems for live two channel recording, and the digital mixdown of recorded material. These rentals include use of the Mitsubishi Electric DDL-1 Digital Delay unit for mastering.

Rates for the rental of the X-80 recording package are \$1000.00 per week with a two week minimum rental. Shipping charges to and from the studio will also be at the renters expense. All supplies, with the exception of digital mastering tape supplied by Ampex Corp. and 3M Co., are included in this rental rate.

The services of a PCM engineer are available on rentals of three weeks and longer, for no charge.

Where Mitsubishi Electric X-80 Series Recorders are available for rental in a particular area, such as The Bay Area (Fantasy Record Inc.) rental referrals will be made to those clients first. In the case that Mitsubishi customers' recorders are already booked for a particular period of time, Mitsubishi will rent a system directly.

Lou Dollenger or Sonny Kawakami of Mitsubishi Electric Sales America, of Lincolnwood, Illinois (800/323-4216) should be contacted for details.

• •

The long awaited introduction of a consumer digital playback system will apparently take place within a few months. The Sony/Phillips Compact Disk or CD system is well on its way to becoming a de facto standard. This system is already the EIAJ standard. In addition, Matsushita Electric, the parent company of JVC and Technics, has also agreed to manufacture CD players. Those record companies with a catalog of digital material ready to go will undoubtedly reap whatever benefits are to be had in the consumer software market.

With the demand for digital recording increasing, the studio owner/ manager is caught in the unpleasant position of dealing with the current high prices to purchase digital equipment. The short term answer to this problem just might be to rent or lease the equipment.



Murray Allen, who has been president of Universal Studios in Chicago since 1973, started performing professionally with the Glen Miller Band when he was 18. He says that if he has had one goal in life, it is to record music the way it actually sounds. And he claims that the 3M Digital Recording System just may be the answer to that dream.

Q: You're known in many circles as a management genius. In a depressed industry, how did you justify the cost of a digital system?

A: It's when times are tough that you've got to do something different – better, to stimulate business. Digital gives clients much more in terms of sound. And I find that a lot of bankers would sooner give you financing on digital, because they know analog is being replaced by something new.

Q: I understand your entry into digital has been quite profitable.

A: It made money right away. Immediately. It's currently running about 60 to 65 hours a week. And that makes money. We typically charge fifty dollars more per hour. And, we've yet to find a client that doesn't get hooked on it.

Q: So the added cost doesn't discourage clients?

A: Digital sells itself, and the added cost isn't that much. It's not that much more than doing double 24s. If you're talking about an advertising job, it might end up being three hundred dollars more. On a record date, people get more squeamish. But when producers and musicians hear the results, they realize digital is worth it. Because every little nuance comes through, artists actually play better. Q: How do you find digital editing?

A: Electronic editing takes a little longer because our blade skills are so well developed. But, the extra precision and ability to preview and audition an edit more than make up for the time. Actually, our editing requirements have been small because of 3M's exceptional punch-in capability. We've done multi-track punch-ins of large vocal and instrumental groups right in the middle of a note . . . and you can't detect them.

Q: You were speaking earlier about commercials. Do you actually think, given the relatively poor quality of broadcast sound, that digital is worth it?

A: Yes. Commercials we've recorded digitally prove that TV can carry better sound, more impact. And impact is what the client wants. He can't add more lines of resolution to video but he can add punch to the audio.

Q: Any other applications you see as prime prospects? A: Film scoring. We've done some already. Sound is so important to productions. When somebody does a film in digital, and releases it with digital playback, it'll be a mindblower. And it won't be long.

Q: Any other comments about the future of digital?

A: It's catching on like crazy. More and more albums are digital because it sounds better, the musicians like it better. You're remiss in your responsibility if you don't give them digital.



3M Hears You ...



ROGRESSIONS digital

by Larry Blakely

Perhaps the most common type of reverberation is that which we hear in a large room or hall. The size of the room, and the amount and type of reflective surfaces will determine the decay time of the reverberation. Typically, large rooms have longer decay times than smaller rooms.

> CHAMBER—In the early days of recording, a common way of obtaining reverberation was to build an acoustic chamber. These reguired a good deal of space, were expensive and often times did not sound so great.

> PLATE—Because of the difficulties of size and expense in constructing chambers, another method of reverberation was desired. So came the plate, a large sheet of metal with an exciter on one end (to vibrate the plate) and a pick up on the other. The plates seemed to have a brighter sound with more density. This has since become a popular method for high quality reverberation.

> **SPRING**—This is another method of obtaining reverb at typically a lower cost than the plate. In the earlier days, the quality of spring reverbs would not compare to that of a good plate or room. However, today there are some good sounding high quality spring reverb available.

Auditioning A Reverb

A good sounding reverb will have a nice "anvil" type of sound to it and will build and decay in a very smooth fashion. There should be no chatter by stronger distinct echos and no wobbles or flutter in the reverberant sound. It should sound smooth and natural.

Electronic forms of reverberation often have unwanted side effects such as noise, restricted frequency response, boing, flutter, dominant individual echos or uneven decay. Very often in studio situations the sound of the reverb is combined with the normal "dry" signal in ways to minimize some of these inadequacies.

I recommend auditioning a reverb in two ways:

Listen to the sound of the reverb only. This will prevent any masking of the pure reverb signal. First, listen to the reverb by using widely spaced snare drum shots, just like you would clap your hands in a room. This can also be done with electronic pulses.

Second, listen to the reverb with program material. Mix the reverb just as you would when you would be mixing. It is good to use material such as strings, vocals, brass and percussion for this listening test. By applying both of these tests when auditioning a reverb, you will have a better idea of the unit's capabilities.

Digital Reverb

Digital reverb is accomplished by the electronic recycling of individual echoes while the signal is in digital form. This has brought about a whole new technology in the attempt to provide electronic reverberation that is as natural sounding as a good room, chamber or plate.

Digital reverbs are typically a powerhouse of versatility in a small package. Many of these units are rack mountable and several of the available models have remote controls. Most of the digital reverbs offer a variety of programs, such as simulations of different sized concert halls, acoustic chambers, plates and other special effects.

Of the available devices, some will only do reverberation while others will also perform functions such as delay, flanging, etc. Some units are 'software based,' meaning that the digital programming is done v.i.a. plug in circuitry that will allow the basic unit to be easily re-programmed and updated as better reverberation programs are developed.

Without question there is a wide variety available in digital reverb. I suggest that you review your needs before you go shopping for one and, most importantly, take the time to do some critical listening. All the flexibility and specifications are fine, but the final result is what you hear.

In order to supply you with the most current information available on digital reverberation units, we have asked the manufacturers of many of the major units to explain their systems to you directly. Read carefully.

. . .

Lexicon 224 Digital Reverberation System

The Lexicon Model 224 Digital Reverberation System is an advanced, software driven, audio processing system. It contains high speed computing hardware and sophisticated music/ acoustic processing programs of proprietary design. The 224 is capable of producing a wide array of reverberation enhancements and acoustical environments with superb audio quality and naturalness for use in studio applications in the music, film and broadcast industries, as well as in live concerts.

The 224 will accept one of two audio signal inputs and provide up to four outputs. This allows the user to have mono, stereo or quad operation depending upon the program selected and the input/output connections to the system. It's unique among digital reverberators in its ability to provide true stereo processing.

The Model 224 has a maximum of nine programs available at this time, as well as 2-sub programs and a new console feature, variable diffusion.

Its remote console allows wide adjustment of all significant parameters of each music program. For example reverb times can be varied individually in the bass, mid-range and treble regions (up to 70 seconds) with crossover selection as well as control of listener position (Depth) and pre-delay. Human engineered selection of basic programs and up to 36 user pre-set mixes are also provided via the console. The console also provides displays that ensure reliability of operation and ease of maintenance. Diagnostic programs thoroughly checkout the hardware on command and on each powerup

While two programs are standard, virtually any 224 in the field can be updated to have additional programs and the latest operating system software. These programs are supplied by Lexicon in the form of ROMS (read only memory) which can be easily and economically retrofitted in the field. The 224 is an open ended, on-going engineering process, thereby ensuring maximum *future* usefulness and protecting the end user's investment. For example, Lexicon has recently introduced its Version 4 operating system—its third major system upgrade. Thus, owners of the first units manufactured can be updated to the latest audio and system improvements.

The 224 Basic System Version 4 consists of:

Main frame processor Remote Control Console w/shielded cable 2 Standard Programs Sub Programs, Mode Enhancement and Decay Optimization Variable Diffusion

The Music Programs in its present repertoire are:

1. Small Concert Hall-B (standard)

- 2. Vocal Plate
- 3. Large Concert Hall-B
- 4. Acoustic Chamber
- 5. Percussion Plate-A (standard)
- 6. Small Concert Hall-A
- 7. Room-A (new program)
- 8. Constant Density Plate
- (new program)
- 9. Chorus-A (new program)

The standard 224 can accept up to 7 music programs. Additional programs require a non-volatile memory storage module (NVS). The optional, plug-in NVS Module will provide capacity to add up to 15 additional programs as well as provide non-volatile memory for 36 user reverb program pre-sets.

At this writing Lexicon plans to introduce an advanced version of the 224, designated the 224X, at the New York AES Show.

The 224 mainframe requires 7" of rack space and weighs 47 lbs. The price varies from \$7500 to \$9100, depending primarily on the number of programs included with the system.

For more information, contact: James L. Comacho Lexicon, Inc. 60 Turner Street Waltham, MA 02154

EMT 251

The EMT 251 retains the distinctive 'space machine" look of its predecessor, the 250. However, the two units are quite different. Using the latest technologies, the 251 surpasses the 250 in frequency bandwidth and operational versatility. The EMT 251 has double the memory capacity and incorporates internal error correction and self-diagnostic features. Increased versatility mainly results from increased processor speed (40 ns/instruction, down from 50 ns) and more refined programing techniques. Digital-toanalog conversion is 16-bit linear with 15 kHz bandwidth for all programs. Thus the 251 provides unmatched excellence in dynamic and phase characteristics and generates denser, more refined reverberant images. The totally new control panel employs an advanced dot matrix, liquid crystal display which shows reverberation curves, delay settings and amplitude settings at a glance.

The EMT 251 provides high quality reverberation with extraordinary versatility in the control of its characteristics. Recent findings emphasize the importance of discrete reflections as well as diffuse reverberation in determining the perceived qualities of reverberant 'space'. The EMT 251 simultaneously provides the reverberation program and three delay lines, all individually controlled to permit detail-



EMT 251

ed 'placement' of first, second and third reflections within a time range of 0-120 ms, and assignable across the stereo output. In addition, the fourth delay line produces a reverberation cluster just prior to the onset of actual reverberation, thereby making a smooth transition into the reverberant field.

In addition to the basic reverberation mode, the EMT 251 has three special reverberation modes: a delay mode, echo mode and chorus mode. The reverberation modes provide special characteristics such as Doppler shift reverberation, non-linear reverberation decay and extra long reverb times. The Chorus mode processes a single input to create four independent outputs, each one slightly different and varying both in pitch and amplitude. Mixed with the original signal, they yield a startling "choral" effect. Delay and echo modes allow time delays ranging from a maximum interval of 440 ms down to extremely short (less than 4 ms) intervals, which are useful in 'broadening' or 'fattening' dry tracks.

The time and amplitude controls for the four delay lines are used in the delay, echo and chorus programs in several ways. Delay mode provides up to four independently controlled delays as long as 440 ms each. Echo mode has four loops, one primary and three ensuing loops, with loop length and feedback amplitude independently programable in time and amplitude. Extremely short loop lengths may be used to 'broaden' dry tracks without reverb. Chorus mode permits separation of any two chorus outputs by as much as 80 ms with independent control of all four output amplitudes. Each output is programmed to vary pitch and amplitude slightly according to an internal random program with range and speed of variation controllable from the panel. If short time delays are set for the chorus outputs, stereo flanging effects can be generated in addition to chorusing.

The EMT 251 is also compatible

with console automation systems, enabling direct control of all parameters. Variations in reverb characteristics are recorded on a data track or disk drive along with the console fader information and later decoded to precisely reproduce those settings during mix-down. The EMT 251 interface is compatible with dc type systems such as Harrison Autoset and others. Every EMT 251 function is controllable in this way.

The EMT 251 weighs about 95 lbs., measuring 21" x 32.6" and costs \$20,100

> For more information, contact: Russell O. Hamm Gotham Audio Corp. 741 Washington St. New York, NY 10014

AMS Digital **Reverberation Systems**

Advanced Music Systems have just released two new digital audio reverberation systems. Both these units are 16 bit systems with identical audio specifications, and are based on the highly successful DMX range of Digital Delay Lines and Pitch Changers. The DMX 15R is a 19" rack mount add-on system for use with the DMX 15-80, DMX 15-80S or the DMX 15-80SB Digital Delay Mainframes. The RMX 16 also be available for both the DMX 15R

is a stand alone version of the DMX 15R.

Both the DMX 15R and the RMX 16 incorporate sophisticated micro programmed parallel processing of 16 bit data with 28 bit internal data paths. As with the DMX range of delay processors, these two new digital reverberation systems offer a full 18 kHz band width and signal-to-noise ratio better than 90dB with distortion typically 0.03%.

Operation of both systems is straight forward. On selection of any one of up to nine programs the unit will provide a reverberant field, the parameters of which are shown on LED displays. Any or all of these fundamental parameters may be altered—the variables being pre-delay, delay time, high frequency decay profile and low frequency decay profile. Any variation of these fundamental parameters of the program may now be stored and recalled in up to ninety-nine non-volatile memory locations. Hence not only are the fundamental programs not lost on power-down, but up to ninety-nine personal reverberant patterns may be stored without loss. As with the 15-80 series, key pad entry ensures ease of entry of parameters as well as producing accurately repeatable effects.

An intelligent remote interface will

and the RMX 16. The remote is a hand held terminal interfaceable to mainframe via the jack-field by a standard jack cable. All functions adjustable on the mainframe may now be altered by means of twenty four keys on the remote unit, all variable parameters displayed by LED on the mainframe are also displayed by liquid crystal on the remote. A remote once programmed with ninety-nine memories may be removed and interfaced to any other AMS reverberation unit. Each remote terminal also has provision for interface of a bar code pen. This will allow the end user to update his own reverberation programs immediately as new software is available. The end user will receive his software in the form of bar codes on sheets of A4 paper. In this way a library of programs may be built up.

These two new reverberation systems allow clean, natural pre-programmed reverberation to be selected with the greatest simplicity, or complex permuations of parameters may be accurately constructed, stored and recalled at will to obtain specific or unnatural reverberation effects.

For more information, contact: Rodney Pearson Quintek Inc., 4721 Laurel Canyon Blvd., #209, North Hollywood, CA 91607.

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Eventide's incredible new SP2016 Effects Processor is here! And you can see it at the New York A.E.S. convention-booth 54. This new unit costs no more than an ordinary digital reverb (and thousands less than some), but its capabilities just begin where other digital reverbs leave off.

Of course, the SP2016 is first and foremost a superb digital reverb, featuring true two-channel operation, 90dB dynamic range, non-volatile user presets and user control of all parameters. But there's so much more ...

You get Eventide's exclusive Digiplex* echo, with incredibly stable operation. There's 16kHz bandwidth digital delay to 1.6 seconds. ADT takes on a whole new meaning, as the SP2016 creates literally dozens of voices, each varying randomly in time, amplitude and space. Wait until you hear selective band

delay-an incredible new effect. And phasing, flanging and chorusing too-the best you've ever heard.

Best of all, there's much more to come, because the Eventide SP2016 Effects Processor is totally software programmable via convenient plug-in ROM's. We'll be adding exciting new effects all the time! You'll even be able to create your own exclusive effects with our optional software development system.

Eventide's SP2016 has been in development for over three years. When you see and hear it at the AES show (and soon at your Eventide dealer), you'll know why-Building the best digital reverb was easy, but bringing you the best of everything took a little longer.

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Our top-of-the-line Series, the RX-7 is available from 16 in/4 out (pictured below) to 32 in by 8 out.

It's modular, and has features too extensive to cover here. When an RX-7 is more than you need, we make three smaller RX Series consoles that will more than get the job done: The RX-5A (8 by 2); The RX-6A (12 by 2); and the RX-5/16A (16 by 2).

Whatever model you choose in the series, you get a -128 dBm E.I.N. hum and noise figure (20 Hz -20 kHz). Quiet. THD at +10 dBm is typically less than .08%. Clean. And crosstalk is -60 dB (1kHz, input to output), -70 dB on the RX-7 Series. Professional. All the way, including heavy-duty XLR type connectors on many of the I/O's. Give us a call at (415) 588-2538. We'll rush out all the spec's and the name of your nearest qualified TOA dealer. We're confident you'll want to sit behind the superb handling of an RX. The consoles that have performance and features to spare —and the serious subcompacts that won't drive you to the poorhouse while you're on your way to the top.

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response of outgoing signal, while those for the two echo modes are feedback factor, delay interval, and frequency response of outgoing signal.

The DRE-2000 features time displays of all selected parameters. Fine adjustments are made with the UP and DOWN keys, whereby the microcomputer automatically counts up or down from the value entered until the desired numeral is reached. The DRE-2000 can also be programmed to provide a buzzer sound each time keys are pressed to ensure failsafe program settings.

While echo and delay effects are simple to produce, reverberation requires extremely complex programs to simulate acoustic reflections which increase exponentially as time elapses.



The Only 14kHz Digital Reverb Under \$10,000!

Less than half the price of an EMT 251. About the same as the Lexicon 224. Compare System 5 with either of them. You'll see it's the most advanced digital electronic reverb system available, with a dynamic range of 103 dB; a signal-to-noise of 83 dB; total

THD of less than 0.02%; and a real frequency response in excess of 14 kHz.

System 5 has four individual reverb programs, four presets, 16 equalization settings and the microprocessor control which combine to give you infinitely more settings than you'll ever need. The compact remote control can be patched up to 200 feet through a normal audio trunk line. System 5 is the **only** one that gives you the option of automated reverb addressable from a tape or disk for reverb changes on cue.

And, it System 5 is too much system for your needs, Quad-Eight, the pioneer in digital reverb,

has other reverb systems to meet your needs and budget, with prices as low as \$1000. Call us direct, now, to audition System 5 or any Quad-Eight reverb (213) 764-1516

Quad-Eight Electronics 11929 Vose Street, North Hollywood, CA 91605

Sony DRE-2000 Digital Reverberator

The Sony DRE-2000 Digital Reverberator

The DRE-2000 is a digital reverberator (16-bit serial format quantization) with four reverberation modes, two echo modes, and two delay modes. With built-in A/D and D/A converters, the unit interfaces directly with either digital or analog systems. The DRE-2000 is unaffected by external vibrations or mechanical shocks and consists of a main unit microcomputer which is rack-mounted and a hand-held remote keyboard for programming. Exclusive non-volatile memory protects against loss of program due to power loss or cable disconnection.

The DRE-2000 has a 10-program memory for storing and recalling various modes and qualities of reverberation, echo, and delay. Once selection of parameters have been made, A-B tests of different programs is possible, as well as immediate variations of programs in progress.

The parameters of reverberation the engineer can select are: early reflection delay time and its level, predelay time, sub-reverberation delay time and its level, and reverberation time. Reverberation time is independently controlled for the low, mid and high frequency ranges.

For time delay, the DRE-2000 offers two modes. In Mode 1, signals on both channels can be delayed from 1 -999 milliseconds. In Mode 2, two different delay times are provided, 1 - 999 milliseconds for channel 1 and 1 - 499 milliseconds for channel 2. Frequency response can be varied by the use of low-cut (flat, 30, 50, 100, and 200Hz) and high-cut (flat, 2.5, 5, 10, and 13kHz) filters. Variables for the delay modes are delay time and frequency

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The DRE-2000 produces spring and plate effect, concert hall acoustics, and unique high-frequency reverb characteristics. Dynamic range is much greater and frequency response is substantially improved over mechanical reverberation methods. Real time operation has been realized by employing high-speed multipliers and pipeline technology by microinstructions. Multiple calculations are achieved simultaneously for each instruction with 170 nanosecond computing speed.

The main rack unit weighs 34 lbs, 2 oz.; the control unit 1 lb., 2 oz. Price: \$15,000.

For more information, contact: Rick Plusher Sony Digital Audio 700 W. Artesia Blvd. Compton, CA 90220

URSA MAJOR'S Model 8X32

URSA MAJOR's Model 8X32 digital reverberator is one of the newest entries into the field of high-end reverberation. The 8X32 is a sleek, compact unit that provides control over all important reverberation parameters, while synthesizing clean, natural reverberation.

Comprehensive LED and numerical displays give immediate confirmation of all parameter settings, and give them simultaneously. A unique LED display shows the levels of both the input signal and the reverberation being produced by the 8X32.

The 8X32 has memory comprising 64 non-volatile registers (they retain their contents even when power to the 8X32 is turned off), which permits storage and recall of 64 complete reverberation set-ups.

The 8X32 will be available at time of purchase with controls and displays on the front panel, in a remote unit, or both.

The 8X32 can be operated by simply recalling appropriate reverberation set-ups from the bank of 64 registers, with no need to program parameters in detail. Once recalled, the reverberation characteristics stored in a register can be modified and, if desired, the modified set-up can be re-stored in the register, allowing either temporary or permanent register editing. During the creative phase, the controls are used to adjust the various parameters until the desired reverberation effect is obtained. During this process, the LED displays show the exact values currently being processed by the 8X32, giving both an aural and visual confirmation of the adjustments. When a desired effect is established, it can be stored in any register designated by the user.



URSA MAJOR'S Model 8X32

The 8X32 provides broad control over reverberation synthesis. Four basic Programs simulate the reverberation of two different plate reverberators (a small, fast-diffusing Plate I, and a larger Plate II), a concert Hall, and an unnaturally large, echoing Space. Within each Program, additional delay times and levels of the Early Reflections and Initial Reverberation can be separately adjusted.

Early Reflections are those first reflections heard in an acoustic space between the direct sound and the dense. omni-directional pattern of reverberation.

Initial Reverberation is the last phase of the reverberation process before individual reflections are indistinguishable. The algorithm of the 8x32 provides a cluster of delays for Initial Reverberation, which makes for a smooth transition into the reverberant field. "Pre-delay" is set by the Initial Reverberation controls of the 8X32.

Within each Program, there are 15 possible Decay Times to choose from, extending all the way up to 20 seconds in Space.

Low Frequency and High Frequency Decay can be individually trim-med in each Program.

Two other features enhance the ability of musicians to "play" with the reverberation process during performances, and are especially useful with longer decay times in which reverberant decay can be used as an accompaniment. Input mute silences the input signal path so that no new sound enters the reverberator, leaving the prior reverberation to decay naturally. Reverb Clear empties the reverberator of its prior contents, regardless of the programmed Decay Time, then opens it up to build new reverberation.

URSA MAJOR has developed an efficient reverberation algorithm that permits an economical hardware realization, which, in turn, yields a high degree of flexibility and quality. The reverberation processor, itself a highspeed signal processing computer, is controlled by a microprocessor that supervises the user interface of controls and displays. As automated mixdown interface requirements are defined, the terms of audio) may range from minor

8X32 will be able to accomodate them. Furthermore, program parameters in ROM will be amenable to occasional refinement and updating as factory and field experience evolves.

The 8X32 front panel measures $3\frac{1}{2}$ " x 19" and the unit is priced at \$5995.

For more information, contact: Gerald Abels URSA MAJOR, Inc. Box 18 Belmont, MA 02178

The Quad-Eight Svstem-5

While natural high-frequency reverberation is by no means "flat", HF reverb generated by the System-5, with a 14 kHz bandwidth, is not prone to severe transient loss or the unnatural roll-off curves inherent in restricted bandwidth systems. When a "natural" reverb is required, the System-5 provides the full bandwidth, allowing the user to determine the amount and characteristics of HF roll-off. This is achieved using the independent HF reverb time control and various EO settings.

The simplicity of the System-5 control panel allows the user straightforward communication with the system. Machine controls are designed for the human, and there has been no compromise in the ultimate control flexability. All control settings may be stored in up to four presets for instant recall later in the mix, or for making instant comparisons of trial settings. Optionally, all System-5 settings may be controlled by tape or disk automation.

The ability to remote the control unit using standard 3-conductor audio wire (including shield) allows the slim System main-frame to be mounted in a central or out-of-the-way location. If the System-5 needs to be used in another room, only the controls need to be moved.

Because of Quad-Eight's long-term roots in the film industry, it was deemed necessary to design a unit capable of scene changes. Scene changes (in







Quad Eight System 5 Digital Reverberation Processor.

delay-time adjustments to the selection of a whole new reverb program. The System-5 is capable of program changes with no audible signal dropout. There is no "recalculation" reguired between programs, therefore eliminating the .5 to 1 second delay that has plaqued other digital reverbs.

The System-5 uses the most advanced VLSI (Very Large Scale Integration: IC techology, and nothing has been sacrificed in the ability to update programs. The echo, "space", and three reverb programs reside in standard EPROM chips that are userchangeable.

The System-5 costs \$8950 and the rack unit weighs 40 lbs.

For more information, contact: Frank Stearns Quad/Eight Electronics N. Hollywood, CA 91605

The Eventide SP2016

Eventide Clockworks, Inc. has recently announced the introduction of is SP2016 Programmable Effects Processor, a 3¹₂" high by 19" wide unit that has a wide variety of effects that include a digital reverb, phaser/ flanger a stereo delay line, and a flexible digital filter.

The Eventide SP2016 is not limited

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Equalizer and noton litten with crean constant or permittic you get boin in one. The Orban 622, un ike most parametric equalizers, is a Constant Q design, providing almost infinite cut instead of the reciprocal's 12 to 20dB. This means the 622 can be used as a notch filter, providing greater flexibility to the professional while reducing equipment requirements. Long experience has shown the narrow cut and broader boost curves of Constant Q to be more musically useful, while the bandwidth control still allows de-equalization of recorded material to exactly cancel a previous boost.

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For a copy of our 622 brochure and "How to Choose Equalizers" article, see your Orban pro-audio dealer. Contact us for names of dealers near you.



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Eventide SP 2016

simply to reverb program software; it can create totally new effects. Selective Band Delay, for example, allows the engineer to separate the signal into a number of frequency bands and then to delay each band independently up to 3.2 seconds in one hundred microsecond steps.

As Eventide continues to release additonal software effects plug-ins, the SP2016 becomes even more versatile and talented. In fact, Eventide will be offering a software subcription service, with new effects appearing on a regular basis—An "Effect of the Month Club"!

Although most studio users will probably rely on factory-produced plug-in software, interested researchers and educators can program the unit in the field. Eventide will introduce a system for program development and the factory will support and encourage an ongoing user information and software dialogue.

Because the SP2016 offers so many functions and so much flexiblity, special care had to be taken with the design of the control system to avoid an unmanageable array of front panel knobs and switches. The result is splendid simplicity. The SP2016's computer guides the user through all control functions, one clear step at a time. An alphanumeric "marquee" readout keeps the user fully informed at all times as well as offering set-up HELP when requested. Program parameters (such as delay time) can either be preset for later use of "live-edited".

User presets are non-volatile and cannot be accidentally lost, even if power is disconnected. If previously stored parameters are changed, the unit will continue to remember the orginal values for easy return to preset. Depending on the specific programs installed, up to 32 different effects can be called up from memory (without changing plug-in modules) with up to 18 presets on each program. Also included on the SP2016 is the most advanced self-test capability ever designed for a professional audio product. The unit can even display the part number of a defective I.C.

The SP2016 is a two in and two out unit with a dynamic range of 86 dB. Bandwidth is 16 kHz or 8 kHz depending on the program in operation. Price is in the \$9000 range.

For more information, contact: Suzanne Langle Eventide Clockworks, Inc. 265 West 54th St. New York, NY 10019

DeltaLab Acousticomputer

The DeltaLab Acousticomputer® is a two-channel digital effects processor designed to provide true stereo effects (including digital delay, double and triple tracking, flanging, echo, cardboard tube echo, slapback, resonance, rotating speaker, chorusing, vibrato, etc.), as well as reverberation, ambient synthesis and extraction.

The way this all comes together is through two independent delay lines (channel A and B which may remain independent or may interact with each other depending on which mode of operation is selected.

Channel A has delay from .25 ms to 160 ms, while channel B goes from 1 m to 92 ms in stereo (parallel) mode. By switching to serial (mono) mode, channel B delay is added to the end of channel A to extend maximum delay time to 252 ms.

Both channels may be recirculated either in or out of phase with the freguency response of the recirculation being user controllable to simulate hard or soft surfaces.

In addition both input and output channels may be phase blended in a frequency-weighted fashion to provide ambient extraction. To understand how this work, imagine two microphones spaced equally distant from a vocalist. Connecting both microphones to a balanced line input would in theory, result in no output from the balanced line as the two identical signals would cancel from the addition of the in-phase and inverted (out of phase signal). In practice the cancellation is not ever perfect since reflections arrive at the microphone from walls, floor and ceiling, all at slightly different times due the differing distances the sound must travel. This is, in essence, what the Acousticomputer simulates electronically by virtue of the image controls.

Furthermore, selected delay taps within the device have a binary address code or number between 0 and 15. The user may select any number and regenerate four delay taps to create reverb while simultaneously selecting the time before the onset of the recirculation (pre-reverb delay). This can be further enhanced by internally sweeping the delay times via the unit's built-in voltage controlled oscillator. The effect of this is to prevent delays being constantly recirculated at the same time. By sweeping the delay time, "boinginess" caused by recirculating delay can be greatly diminished.

While reverberation is not the Acousticomputer's intended primary function, the unit will provide good reverberation approximately equipvalent to that provided by a medium-priced spring reverb. By simultaneously creating reverb internally and extracting ambience contained within the signal fed to the unit, some very striking room simulations may be obtained. Coupled with the unit's primary applications as a digital effects processor and stereo delay line, the Acousticomputer's reverb facilities should be viewed as "the frosting on the cake " The Acousticomputer has a suggested retail price of \$1850, measures 134" x 19" x 10" and weighs 12 lbs.

> For more information, contact: Wayne Morris DeltaLab Research, Inc. 27 Industrial Ave. Chelmsford, MA 01824



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by Cary Baker

Chicago has variously been heralded as Convention Center of the Nation and Hog Butcher to the World, as well as architectural capital of America and the hub of organized crime

One of the city's less-heralded distinctions is that Chicago once was the epicenter of the recording industry. Few are aware that any record company existed between the coastal bastions of New York and Los Angeles. No museum preserves its artifacts. Many of its proponents have left town or died, making documentation a diffcult task. But Chicago once hosted corporate headquarters or recording facilities for such labels as Columbia, RCA, Decca, Vocalion, Brunswick, Vee-Jay, Chess,

CHICAGO'S GREATEST

USA, Mercury and Curtom.

Columbia Records prefixed the catalogue numbers of its 78 RPM disks recorded here with a "C." Mercury, many decades later, portrayed the Chicago skyline on its label. But somewhere along the way the city that forms

and Universa Studios



by Cary Baker

Going on 35 years, Universal Recording Co. has been the leading recording studio in Chicago and a leader in the national black contemporary record market. But, according to Universal president Murray Allen, current chart records by the likes of the Manhattans, Dells, Chi-lites and Bobby "Blue" Bland represent only the tip of the iceberg. The facility is equipped to handle 24- and 48-track

recording, digital and analog work, filming, film mixing and transfer, jingle and narration recording, disk mastering and tape duplication.

Murray appeared on the scene at Universal in 1961, as a tape editor for then president Bernie Clapper. A reed musician with a fascination for the technical and a masters degree in music, Allen purchased the studio in 1975 after Clapper's death. Since that time Allen has molded the studio with his techno-musical expertise. Not afraid to be first, he is one of digital recording's strongest proponents and has gone to great lengths to make sure that Universal leads the way in the demanding interface of audio and video. His progressive outlook has led him to the current presidency of the Society of Professional Audio Recording Studios, where he has stimulated the growth in membership by encouraging communication and shared technology.

Though prominant in the national studio arena, Allen believes strongly in the Chicago music scene and says that Universal "does its best to promote the local music and act as a traffic agent."

'Chicago has always been a good r&b town. The rhythm sections are good and so are the background vocalists. The arrangers and producers are strong. That comes out of the Chess and Vee-Jay days. As for the pop market, we did the keyboard overdubs for Styx' Paradise Theatre and

(Cont'd on page 30)

the nation's largest retail market kissed its vinyl magnates goodbye, despite the teeming talent pool that remains to this day.

Such moves, of course, did little to affect the record-buying public. The "Hot 100" can still be found at anyone's neighborhood record store. But precious few of those records were made in the Windy City

Recording activity still exists, as attested to by an ever-growing number of



VEE-JAY RECORDS

studios. A number of fine speciality labels—most notably Alligator, Flying Fish and Delmark-found Chicago a desirable home base both for its abounding talent and receptive marketplace. The Chi-Sound and Cur-tom (now called Gold Coast) labels have accrued a respectable number of hit records in the soul market, but both have enlisted with coastal labels for distribution

Whatever sparks of encouragement remain, it's a far cry from years gone by.

The Beatles' very first American recording contract was with Vee-Jay Records, then headquarted at 1449 S. Michigan Ave. The Rolling Stones frequently visited the home of their favorite American label—Chess— paying tribute to its address in their song, "2120 S. Michigan Ave." Hit artists like the Four Seasons, Chuck Berry, the Shadows of Knight and Jerry Butler topped the national hit parades from labels and studios in Chicago. And, as many of the smaller independent labels fell off, Mercury continued to keep (Cont'd on page 30)





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(Cont'd from page 28)

Champaign's LP here. If that breaks, you'll see much more of that at Universal," Allen says.

Universal boasts a proud history in its own right. Originally located on the city's far North Side, Universal relocated atop the Kemper Insurance building (during which time the studio debuted the echo chamber on a Harmonicats recording), later at 101 E. Ontario (where stereo was introduced) and finally its present building at 46 E. Walton just off Chicago's Magnificent Mile, in 1957.

Room for expansion is Univeral's present drawing card, its 'Studio A' is large enough to accommodate the worldrenowned Chicago Symphony Orchestra (who recently set up there to record a spot for Seaworld).

Universal, of course, has competition along the Magnificent Mile in Chicago Recording Company, Paragon and Streeterville studios, plus suburban facilities like Pierce Arrow, Pumpkin, Shade Tree and Hedden West. But with an estimated 240 chart records since the early '60s, Universal is still Chicago's leader.

(Cont'd from page 28)

Chicago on the map with Rod Stewart, 10 CC and Chuck Mangione under ex-



ARGO Records

clusive contract. When Mercury packed its bags for New York last summer, an era ended.

How did the Second City become a distant "Third City" for the recording industry? Murray Allen, president of the 36-year-old Universal Recording Co., puts it in a nutshell: "Traffic attracts traffic. People simply want to go where the action is. If Chicago had gambling and major nightclubs, you'd see a tremendous amount of action."

Recording activity in Chicago appears to have started in the 1920s and 30s at which time the fast-paced major labels shuffled their studios from one city to another. Invariably, all roads led to Chicago.

Brunswick Records had studios in the Lyon-Healy Building, at Wabash and Jackson. Columbia built studios in the Tribune Tower, across the street from the Drake Hotel at Michigan and Oak, and in the Furniture Mart. RCA had their studios at 1245 N. Lake Shore Drive.



Brunswick Records

What stood in the way of the major labels keeping their Chicago operations?

"Unions," believes Bob Koester, president of the Chicago-based Delmark label and student of jazz and blues history. According to Koester, "James Petrillo, head of the local [musicians] union in 1936, felt that records were ruinous to the live music industry. The upsurge of juke boxes and radio stations playing records were killing live music. That basically killed the pop record industry in Chicago. In fact, RCA opened a studio in suburban Aurora."

Hillbilly and blues musicians were exempted from the union block which probably helped to bring Chicago its reputation as blues capital of the world. Harmonica players only became acknowledged when the Harmonicats scored with hits they'd made in Chicago. The unions eventually loosened their hold, but by then Los Angeles had stolen the limelight. Until the mid-30, "Chicago had just been another stop on the circuit that included Texas, New Orleans, Atlanta and St. Louis," according to Koester.

One notable figure in Chicago recording was RCA's Lester Melrose. A downstater of Irish descent, Melrose operated a grocery store on 63rd St. in the early 20s. In 1922, he and his brother opened a music store on Cottage Grove and chanced upon the publishing rights for several Jelly Roll Morton and King Oliver jazz compositions. By the 40s, Melrose had become RCA's producer in Chicago, and the label's Lake Shore Dr. studio was swinging to the blues of Sonny Boy Williamson, Tampa Red and Blind John Davis.

Post-war times saw the supplantation to the majors by independent labels. In the 50s, there was Chess Records (originally Aristocrat), owned by former nightclub entrepeneurs Leonard and Phil Chess, featuring their star talent Muddy Waters. In time, Chess had signed Howlin' Wolf, Little Walter, Chuck Berry and Bo Diddley. "Around 1951, Leonard Allen's United and States labels were stronger than Chess," says Koester. "Although Muddy Waters got a lot of the glory, says Koester. ''Although people never made movies like Rock Around the Clock with artists like him. Muddy didn't make the Chess's rich. Chuck Berry and Bo Diddley did, and later Ramsey Lewis and Ahmad Jamal."

Muddy, along with his label mates, did make the Chess brothers legendary. With a golden decade of hits, Chess was easily one of the nation's hottest independent labels by the late 50s. With Chess at 2120 S. Michigan Ave., Vivian and Jim Bracken were going from height to height with their Vee-Jay label at 1449 S. Michigan Ave. Vee-Jay started with bluesman Jimmy Reed and doo-wop vocal groups the Spaniels and Eldorados, and hit a groove ten years later with Gene Chandler ("Duke of Earl"), the Four Seasons ("Sherry"), Bettey Everett ("You're No Good") and even the first recordings of the moptopped Fab Four, whose "Please Please Me" reached No. 3 in *Billboard* in February, 1964.

Of course, the Beatles soon fled to Capitol/EMI and took their Vee-Jay masters with them. And on January 15, 1964, Vee-Jay was served with an injunction against manufacturing or distributing recordings by the Beatles, who claimed non-payment of royalites. Finally, Vee-Jay accepted a license from Capitol to sell its product with a substantial royalty payment enforced. This was the beginning of the end for Vee-Jay. The label relocated briefly in Los Angeles, then moved back to Chicago, pared to the basics. In May, 1966, Vee-Jay closed its offices and released its employees. A Billboard news item was headlined: "Curtain Down on Vee-Jay As Liquidation is Ordered."

Chess had meanwhile moved to its own building at 320 E. 21st St., a move that put every facet of the recording business at their fingertips, from inhouse pressing to distribution, as they continued to turn out hits by the Dells, Ramsey Lewis and Etta James well into the 60s. Then, on October 16, 1969, founder Leonard Chess—the man whom bluesman Little Milton described as "having all the deals in his head"passed away. Brother Phil Chess left to run radio stations WVON-AM and WSDM-FM (now WLUP). The company was sold to the GRT Corp. moved to New York, was sold by GRT to All Platinum Records in Englewood, N.J., where its valuable master tapes now lay dormant.

The 60s saw other local labels



Mercury Records

make successful showings in the national market. USA records, which had changed hands perennially since its early 60s orgins, went Top 10 in 1967 with the Buckinghams' "Kind of a Drag." Unfortunately for USA, the Buckinghams soon left for Columbia's greener pastures. Dunwich Records, then owned by Bill Traut and restaurateur George Badonsky, scored No. 1 its first time out with the Shadows of Knight's "Gloria." The success never repeated for Traut until a single on his Wooden Nickel label by then-unknown Styx, "Lady," hit in the mid-70s. Traut has since left for Beverly Hills, where he's negotiating recording contracts, and has launched a jazz label, Head First.

The New Colony Six released several local hits on their Sentar label, distributed nationally by Neil Bogart's Philadephia-based Cameo/Parkway Records.

Carl Davis, former CBS staff producer, became artist and repertoire director for Brunswick. While Brunswick's main office was in New York, Davis re-opened the old Vee-Jay headquarters at 1449 S. Michigan Ave. During the middle 60s, Davis broke artists like the Chi-Lites while infusing new blood into the careers of Jackie Wilson and former Ramsey Lewis accompanists Eldee Young and Red Holt. Later, he launched a sister label, Dakar, with a series of smash hits by soul man Tyrone Davis.

However, trouble started when Brunswick president Nat Tarnepol was convicted of giving payola to DJ's. Carl Davis was acquitted of all wrongdoing.

In 1976, Davis left Brunswick and formed Chi-Sound Record. Many of Brunswick's superstars—the Chi-Lites, Gene Chandler and Otis Leaville—followed. And today, Davis is one of the city's most successful hit producers. He admits his frustration, however, with a deal in which Chi-Sound is distributed by 20th Century Records, which in turn is distributed by RCA. It's no wonder that one of Chicago's oldest surviving vocal groups, the Dells, Jumped to 20th Century Records.

"We're two generations down," he says. "After I signed with 20th, they decided to go with RCA." In the interim, Davis has launched an independently-distributed label called Kelli-Arts.

Former leader of Vee-Jay's Impressions, Curtis Mayfield, opened shop with the Curtom label in the late 60s, scoring hits with the movie soundtrack album from *Superfly* and the single "Freddie's Dead." Just recently, Mayfield joined the list of Chicago emigrants, having left for Atlanta. Mayfield's business manager, Marv Stuart, continues to produce recordings by Linda Clifford and Ava Cherry on the new Gold Coast label, headquartered in Cutrom's Lincoln Avenue studio.

When many of the early labels folded, Mercury wasn't an open door. Jerry Butler, Gene Chandler and the Four Seasons joined the Mercury family when Vee-Jay closed shop. Mercury's origins, like that of Vee-Jay and Chess, were steeped in rhythm & blues with early artists like Dinah Washington, Sarah Vaughan and Junior Parker. The early 60s brought a move from 839 S. Wabash to 35 E. Wacker, and Mercury's purchase by the North American Philips Corporation.

By 1973, Mercury had relocated once again, to One IBM Plaza, and developed a roster spearheaded by the Ohio Players, Rod Stewart, Thin Lizzy, 10 CC and others, although all of the aforementioned artists eventually jumped ship to other labels. Meanwhile, North American Philips acquired Polydor, RSO and Casablanca Records, forming the PolyGram Group of record companies. And Mercury, the last surviving Chicago major, uprooted in July 1980, bound tor New York.

"When most other companies abandoned the Midwest, it turned out to be a bonanza for Mercury," Poly-Gram chairman and former Mercury president Irwin Steinberg says, reflecting on the label's Chicago heyday. "Many of the acts we developed—Kool & The Gang, the Gap Band, Con Funk Shun and the Bar-Kays—came out of the Midwest."

According to Steinberg, who joined Mercury as controller in the late 40s, "PolyGram was a Europeanoriented company. It made sense to consolidate and be able to focus contact between Europe and the record companies in one central location. New York was chosen."

Steinberg moved to New York to help orchestrate the consolidation, but to this day maintains an apartment in Chicago.

Mercury's sole corporate representation in Chicago is a branch sales office in suburban Schiller Park. But Steinberg, a Chicago native, continues to believe in the Midwest talent pool. "When people think of entertainment, New York and Los Angeles come to mind. Still, somebody who knew how to work it could establish a very viable record company in Chicago," he says.



Mercury Records

Robin McBride, former Artist and Repertoire Director for Mercury, and now president of his own Chicagobased VU Records, believes, that "Mercury had no choice but to move. It made sense to be here 15 years ago because they started here and had emotional ties. Unfortunately, now that they've moved, Mercury doesn't look to Chicago very much anymore."

For McBride's new label, it's make or break in Chicago. "I don't know if either coast would serve my purpose," he says. "I'm excited about the talent in Chicago."

For the "North Side Trinity" of Delmark, Flying Fish and Alligator, it's business as usual. Alligator president Bruce Iglauer received an offer from (Cont'd on page 34)

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JOHN RYAN

by James Riordan

John Ryan has had considerable success with acts which, while established, have not had a hit for some time. He has breathed new life into records by such top artists as the Climax Blues Band, Pure Prairie League, Rare Earth, The Allman Brothers; and has scored substantial hits for Styx, Doucette, and Black Oak Arkansas, to name a few.

"A big part of my job is reacquainting the artists with the sound and power they had as a group, both in terms of songs and whatever it is that was special about them such as the guitar sound of the Allman Brothers or Gregg's voice for example. The first thing I do is try to identify what it is about the band that people really want to hear and then I try to incorporate that into really great songs. In a sense I try to rehabilitate what was already there initially."

Ryan's most recently completed project was with The Allman Brothers, resulting in their current hit single.

"We did the Allman Brothers in Nashville. It was very good to work

there and I've done two records in a row there. It's a good environment for a band because you can go fishing and there are some hotels that really accommodate musicians. Of course there are a lot of good players there, and with the country musicians it is a different lifestyle. Working with the Allmans was great. The hours were crazy. Sometimes we'd start at 11 p.m. and leave at seven in the morning. I saw the sun come up more than I have on any other album, but it is a real strong record so it was worth the effort. Normally I work during the daytime but they're so used to playing live they like to get up in the afternoon. They're really good to work with.

"A lot of acts lose touch with their creative identity when they make a lot of money, but this was never the case with the Allman Brothers. Even though they sold millions of records, a lot of that money never got into their hands through a bizarre set of circumstances. Now they're coming back with a whole new set of business people around them and they're not going to make the same mistakes. They still live in the South and

they haven't removed themselves from the influences they had in the beginning."

Ryan is also working with some new artists and has just done an album for Badlands Records (distributed by Columbia) on Gregg Guidry.

"Gregg wrote one of the songs on Climax's album and I have liked his writing for a long time. I have a few other people in the Midwest that I'm going to work with also but the time factor has been real difficult. I'm doing Larry Lee from the Ozark Mountain Daredevils. He sang "Jackie Blue" and he has a very unique voice. After that I'll be doing the next Climax album and I'm going to do an album with the Ozark Mountain Daredevils as a group later this year."

Ryan's work with the Climax Blues Band has resulted in two Top Forty singles including the recent smash "I Love You".

"That was written by Derek Holt of the band. Climax is a very unusual band because basically they started as a blues band and they have a couple of really, really good songwriters in the group. Each guy has a completely different approach to songwriting. We just had a Top Ten record with them and I believe they are going to do some very great things."

Ryan got his start as a producer when he was a disk jockey as WGLD in Chicago. "I kind of backed into it with Styx and wound up doing the first few albums. I started going to their rehearsals and helping them arrange their songs and the next thing I knew I was producing them. "Lady" was the first record I ever really produced.

"The Midwest is really a great place for talent. Record companies have had a tendency to focus on the coasts and I think it's great that bands like REO and Styx are topping the charts now."

Although it's been years since his deejay days, Ryan says his roots are still in radio and that it is still a valuable part of his methods today. "I was working at a college radio station while I was in school and it gave me a lot of knowledge about the medium and its power which I still try to incorporate into the records that I make. I always loved to listen to a lot of music. I use to blow thirty or forty dollars a week on records and that's when albums were only \$2.98 and at night I'd go to the black



clubs all around Chicago. I still think in terms of radio in that I try to envision what an artist's records need to sound like to be on the radio. I then take ten steps backwards and go from point A to point B trying to fill in the blanks and conceptualize what a hit record by this particular artist will be. Radio is very much the catalyst that takes it from the business world of the record companies to the public, and if you don't get the enthusiasm from radio you can forget the rest."

Like many producers John Ryan believes in a lot of advance preparation before entering the studio. "It depends on the artist's schedule, of course, but I have a pretty good idea of what I want before I go into the studio. In pre-production I conceptualize what is happening and usually nail most of the songs down. There are exceptions. "Lady", for example, was actually written while we were mixing the Styx album, but that usually doesn't happen. I like to go in fairly well prepared with at least some idea of a certain number of singles, a certain number of AOR cuts, and to have a combination of different types of music on the record so that we can get different kinds of radio stations playing the record. My philosophy is to find what the group's sound is and incorporate that into great songs that are accessible to radio and put the sort of spontaneity the band can generate live

(Cont'd from page 31)

United Artists Records to move to Los Angeles in 1972 to produce blues records, but declined in order to remain in Chicago. Eight years later, Alligator has developed into one of the more prolific and aggressive blues and reggae labels in the country from his base in an Edgewater frame house.

New blood has come into the city in the form of the new Third Coast and Taxi labels in Evanston and Skokie, respectively. And, at 2120 S. Michigan Ave.—Chess' former home—producer Gerald Sims has updated the facilities, featuring a new 24-track studio, and forming the Gerim label.

Universal's Murray Allen is not leaving Chicago either. At the time we called, he boasted the Styx's Paradise Theater, Champaign's How 'Bout Us, The Manhattans' *Shining Star*, and Gene Chandler's "Get Down" were all recorded at his Walton Street Studio. Universal and its Magnificent Mile counterparts- Chicago Recording Co. and Streeterville Studios-are also instrumental in the burgeoning advertising jingle trade, which, he says, "all popped up in this neighborhood because the agencies are here. And the agencies are here because they want that Midwest mentality. As Budweiser says, they don't drink beer in New

onto the tape. I think if you can do those three things you'll do real well."

Ryan is also a big believer in the value of good songs. "Even a name group can't afford to put out an album with mediocre material. If the band has seven great songs I'll go out and find three others to give us ten strong songs for the album."

As far as advice to would-be producers, "There's nothing more valuable for experience than finding something you believe in and doing it. If it hadn't been for Styx and my getting involved I don't think I'd be sitting here today. It's also very important to learn about the business and not just the studio. Learn about radio and especially about songwriting. If a producer/engineer has a fault, it is usually that they don't have a strong enough background in songs. I think it's essential to know about songwriting if you're going to work with artists in the studio. You have to be able to tell the difference between a great song and a mediocre song. You have to be into melody and lyrics and be able to listen to records on the radio and know why they appeal to people. The sound of a record is very, very, important-but you've got to have great songs. The greatest drum sound in the world won't make it without the right music. The idea is to have great recordings of great songs."

York—how can they sell it?"

"In the future, the music and jingle recording trades will separate," Allen adds. "You'll see recording studios popping up all over town."



CHESS Records

Carl Davis of the Chi-Sound and Kelli-Arts labels concurs with Allen's optimism. "Chicago has a lot of music coming out on labels in other cities and we're not getting a lot of credit," he says. "We cut Natalie Cole's biggest record in this city, as well as Peabo Bryson and Styx. Maybe one day, people will become aware that Chicago's still a vital record town."



(ed. note: For the next couple of installments of Video Interface, we will be investigating video editing alternatives as presented by several leading manufacturers in the field.)

Editing systems are now available in sizes and configurations to suit every application. The trick is to find the one that meets your needs. You don't need a tank to hunt rabbits.

A basic system is a cuts-only or news-style edit controller. It works with one Source and one Record VTR. Control track is standard but SMPTE time code is an option for those who require critical frame accuracy. Such a system is essentially portable. It can easily be installed in a van or set up in a hotel room for end-of-day editing while on remotes. In addition to news or documentary style programming, cuts-only systems are often used by feature film and video producers to do initial rough cuts. Since the system is relatively simple, almost anyone can learn to do basic editing in about an hour.

Though these are basic systems, many have borrowed features from their more sophisticated brothers. Many have full status displays that tell tape location, VTR mode and allow for the keyboard entry of tape time numbers. Small microprocessorcontrolled edit controllers can also do some calculating that can save the human editor time and frustration.

The next big step is into A/B roll editing. Now you're talking about at least two Source VTRs (A and B) in addition to the Record VTR. Each Source VTR must have a time base corrector to aid in synchronization and color phasing. This system also requires some kind of special effects generator.

A/B roll editing means that you are rolling both the A and B Source VTRs at the same time in syncronization in order to mix their signals. The most common A/B roll is a dissolve. Most special effects (wipes, keys, etc.) are the result of A/B roll editing. On a sophisticated edit controller like the Convergence ECS-103B, all effects can be called up from the editor keyboard and previewed in a matter of seconds. Generally this is done with the help of a series of questions or prompt sequence from the controller.

A special kind of an A/B roll is a



sync roll. This is often used for concert material that has been shot by several cameras, each with its own individual VTR. In post-production, these tapes can be run in sync and cutting is done on-the-fly as though the edit controller were a production switcher and the concert live. Unlike live production, however, if your finger slips or if you



decide you don't want to cut on that last beat, you can go back and re-do the edit as many times as you like.

The most elaborate and intelligent controllers around are the List Management editors. These controllers give the editor maximum flexibility in making changes in a program. They are a necessity when doing a program that will have a series of rough cuts and revisions before a final cut is made. Several film makers are starting to use such systems to do feature film editing.

The heart of a list management edit controller is its memory...that is, its ability to store internally a list of all the edit points selected, reel numbers, and a brief description of the edit. Using this list, the same edit controller or a similar one across town can automatically assemble a program from the original material. If you want to change a scene you can just change the numbers in the list and have the program completely auto assemble to show you the new version.

A list management editor may or may not be set up to do A/B rolls, but it will be able to write effects into its list for auto assembly later. Most full-blown list management systems will be configured to do the final on-line auto assembly with effects. Such a system might have three Source VTRs, each with time base correctors, a disk drive or paper punch for permanent storage of an edit list, and possibly a printer for adding comments to the edit list. It would also usually include a switcher for special effects.

Typically, a film maker or video producer would shoot his original material in the best format he can afford: 35mm/16mm, one inch, two inch, or three-quarter inch tape. From this original material, small format (3/4" or 1/2") work tapes are made and time code added to one of the audio tracks. Some producers also have the time code numbers burned into the picture for visual reference. These work tapes would be used to make the first rough cut. Now everyone gets to review it and make his comments. Inevitably, this leads to a second rough cut and probably a third. Since these are work tapes no one worries too much about picture quality or damaging the tape. The main purpose of this off-line editing is to generate a perfect list.

After all the changes have been made the list may be a patchwork of inserts, re-dos, and overlaps. This is known as a dirty list. If you use a dirty list to do your auto assembly, it will go through all the same mistakes and redos that you went through off-line. Not only is this a waste of time, but such a list may contain contradictions that will confuse a computer. The safest thing to do is to clean your list. The best procedure for doing this is a program called "409," named after the spray cleaner. This routine cleans the list of overlapping or redundant edits automatically.

From simple to sophisticated, there is an edit controller out there that is just right for your project. The hardest part is to figure out what you really need. The best plan is to shop around and visit various post-production houses and let them tell you the advantages of their systems. Some may have special audio set-ups or character generators or digital effects. Also try to get your hands on a simple system to try handson editing for yourself. The more you understand about the process, the better you can prepare for any editing session.

A special kind of all 100 i



Managing a recording studio means getting payment for the sessions you book ... but if you get too uptight about monetary concerns, you may scare off business. The manager must walk a dangerous line, one that calls for perception, tact, diplomacy, and psychology.

We had just returned from lunch and Layla, our receptionist, was taking down the "Location Recording" sign when the phone rang. We hadn't actually been location recording, but it looks a lot better than "Out to Lunch." Promote a busy image and you will keep your studio busy-that's my motto. Cart, our engineer, and Smilin' Deaf Eddie, our tech man, had just gone into the control room to trace a leaky capacitor or some such electronic gremlin. I took the phone call in the lobby and found myself talking to somebody I was supposed to recognize.

"Hello, can I help you? This is Mr. Bonzai, the manager '

'This is Sandy Bar, the drummer,"the voice informed me.

"Oh...yes?" I tried to sound friendly and professional.

"I'm the drummer for Horris Edward."

There was a slight pause during which I was supposed to be impressed, I guessed, but I couldn't place Horris Edward. I decided to fake it.

"Oh, Horris Edward ... yes, can I help you?" "Well, Horris is looking for a

studio to do some demos in, and asked me to call you guys at Ryan Recording.'

Business is business, whether it's Horris Edward or Morris the Cat. I told them we had some time open that afternoon if they wanted to come by and check out the studio. Afterwards, I walked into the control room to tell Cart

"Cart...just got a phone call. Do you know who Horris Edward is?"

'HORRIS EDWARD! Are you kidding? You know the song 'Whatever'?"

I pondered. "Oh...sure." I guoted

Other Side of the Tracks

THE BEST OF BONZAI An Encore Performance

the familiar lyrics.

"Whatever you say...I love you. Whatever you do...I love you. Whatever's right...I'm not uptight... Whoa-oh-oh-oh...whatever.

Cart spoke in amazement. "Horris Edward's 'Whatever' is one of the biggest songs of all time. It's been covered by over 2,000 artists-everybody from Gary Coleman to Ethel Merman. There are jazz versions, country versions, classical versions. There's even a punk version!'

Keeping up with all the stars in the music industry is a full-time job, and I had a stack of unread Billboards and Cashboxes to testify to my ignorance. So I didn't remember who Horris Edward was...big deal. After all, he hadn't had a hit in eight years. But I had to admit his profound influence on the Seventies, the 'Whatever Generation.'

I was sitting in the lobby when the cars arrived. Horris was driving a stretched Lincoln with a custom convertible top. Lincoln makes only one Mark XII each year, and Horris had the year's. His drummer, Sandy Bar, was driving a Maserati that was so low, it could drive under a limbo dancer. The third person in the party was Limey Whitehead, Horris' manager and former chiropodist. The three of them strode confidently into the studio and we all introduced ourselves. I had to think, "If they are so big, what are they doing here?"

'I have just written the next 'Whatever,''' Horris informed us. "I prefer to work on it at a smaller studio for reasons of privacy.

That's a good enough reason. Maybe it would lead to something bigger. As Cart gave Horris and Sandy a tour, Limey and I discussed business.

"We would like a 50% deposit on the session...'

Limey was shocked. "Oh...just ring up Stan Allen at DCA records. He'll take care of everything."

I took a chance, and decided to wing it until I had spoken with DCA. It was risky, but if I had pushed it, they might have gone elsewhere.

by Mr. Bonzai

The next day, the musicians arrived and unpacked their instruments. Sandy's drums were a joy to behold and a bitch to record. He was supplementing his income with Horris by sharing the rights to his new drum with the Diamond Drum Company. Sandy's invention, the Phaser Stundrum, consists of a set of drums with light-sensitive disks underneath the heads. They are played with laser pistols which fire a beam at the designated point on the drumhead. He looked like Buck Rogers all ablaze, playing the drums like a gunfighter. We all got free "Stundrum" T-shirts from Sandy.

By the third day, I was still unable to get in touch with Stan Allen at DCA. I had spoken with his secretary in Los Angeles, his assistant in New York, and the accounting department in Mooselips, North Dakota, but no luck. They were going to "get back to me.

If DCA was not going to pay, I had to know. When I brought it up, I could tell that Horris was hurt. He looked up at the ceiling and spoke sensitively.

"Listen, Don't worry. If DCA is taking too long, I'll pay for the time myself. Call Rolf, my accountant."

While I was in the control room, I heard a little of Horris' new hit, "Really." It went like this;

"Really...yes, I need you, really. Just a little really...

Can you deal with it...

Really...whoa-oh-oh-oh, really."

Well, if "Whatever" could sell 30 million, I guess "Really" could. Limey informed me that Horris was working on a deal for the soundtrack of Claude LeDouche's new film, "Poof!" (English translation: "Get Out Your Air Freshener.")

While they were working at our studio, I did my best to make life and recording go smoothly. Keeping the session rolling is very important. Horris asked if we could get him some congas, so I started hunting some down.

Everyone's congas were gone, but when I spoke with our buddy,

The situations and characterizations in this column are purely fictional and do not reflect anything relating even vaguely to reality, living or dead
Hamhock Washington, he suggested we give Snicky Smith a call. I didn't know Snicky personally, but with Hamhock's recommendation he said we could borrow his drums.

Snicky lived in one of those anonymous apartment complexes in Southern California. They all look the same and have names like "Walnut Knoll" or "Oak Valley." They never have walnuts, knolls, oaks, or valleys. Snicky greeted me at the door and there was something vaguely familiar about him.

"Hi, I'm Snicky. The congas are in the bedroom. I'm off the road for a few weeks and don't need 'em."

On the wall in Snicky's bedroom I found the clue to his identity. There he was as a boy with the familiar mouse ears and T-shirt, shaking hands with Goofy. This was *Snicky*, the former Mouseketeer. Since the Disney days, he had drummed with such groups as "Patrick Henry and the Patriots" and "The Amalgamation." What a strange life. Start out as a Mouseketeer and live out your life with invisible mouse ears. I'm sure Walt would have something to say about this if they thawed him out.

Back at the studio, while Sandy was laying down the conga overdubs, I finally got through to Horris' accountant, Rolf Wurstfinger. Mr. Wurstfinger was a real hard driver and I reluctantly agreed to a ten day receivable on the studio time. I was worried, but after all, we had Horris "Whatever" Edward in the studio and that was good P.R.

Horris finished his song and shot out the door to get to the airport in time to reach Paris by that afternoon. Sandy, Limey, and the others packed up and left. We waited.

We waited quite awhile. At first we were worried when we found that Rolf had gone on vacation and Sandy's phone had been disconnected. Later, we learned that "his dog had chewed the cord." Finally, we got a postcard from Horris. The film deal had fallen through and DCA had decided not to pick up his option. He asked that we trust him and hang in there.

We had no choice but to hang. As the weeks slipped by, we gradually gave up on Horris Edward, but about three months later he came driving up to the studio. He personally handed me a check covering all of the recording time and materials, plus a 25% bonus for being so patient. This time the gamble had paid off. It turned out that the U.S. Postal Department was paying him \$100,000 for the commercial rights to "Whatever." They were going to use it as a jingle to upgrade their image.

Whatever.

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Studio Manager[·] Colleen Watson

Engineers: Craig Harding Colleen Watson, Independents Dimensions of Studios: Studio A. 9' x. 19' Isolation Booth 9'x

Dimensions of Control Rooms: Control Room 9' x 19 Tape Recorders. Ampex 440C 8 track, (2) Otari 5050B 2 track, Nakamichi 580 cassette deck 2 track

Mixing Consoles: Tascam Model III 8 in x 8 x 4 out, Tascam /lodel II 6 in x 4 ou

Monitor Amplifiers: Yamaha P2201 (Control Room), Sescom -leadphones

Monitor Speakers: IBL 4311's, Auratones Echo, Reverb, and Delay Systems: AKG BX10 reverb. eltaLab DL2 Tape Delay

Other Outboard Equipment: Eventide Instant Flanger. dbx 155, (2) UREI LA4 compilimiters, MXR dual 15 band EQ, (2) MXR 31 band EQ. Sescom parametric EQ, Countryman & Associates direct boxes (2) Acoustic 150 guitar amps, Dwarf amp, the usual assortment of toot actuated effects

Microphones: AKG 414EB, 200's, D1000's, Shure SM7, SM57's, SM58's, Electro Voice RE 20

Instruments Available: Steinway upright plano, Fender Telecaster Fender Precision Bass Guild Startire, Tambonnes Claves Cowbell Maracas

Rates: \$25 hr recording, \$20/hr mixing, free set up, block rates available

** ANDOVER AUDIO

also REMOTE RECORDING 2387 S. Coon Creek Drive, Anoka, Minnesota 55303 (612) 757-6589 Owner, Don G. Erickson Studio Manager: Don G. Erickson

••(ATA) ARMAGEDDON TALENT ASSOCIATES 1604 W. Juneway Terrace, Chicago, Illinois 60626 (312) 465-3373 Owner: Fred Tieken/Gail Smith Studio Manager: Fred Tieken

.. ATOM SMASHERS UNLIMITED STUDIO also REMOTE RECORDING

Fernadale, MI; All Mail: Silver Stone-Arrow Productions P.O. Box 21054, Detroit, Michigan 48221 (313) 541-0373 M-W & Sa-Su: after 7 p.m. all day Thur & Sun/ 584-8111; Mon-Wed, Fri-Sat 11 a.m.-6 p.m. Owner: John Annesse

Studio Manager: Barb L Rohr Engineers: John Annesser Barb L Rohr full time, some part time

Dimensions of Studios: 32' x 23' x 15' & 20' x 15' x 10' Dimensions of Control Rooms: 14' x 10' x 10' Tape Recorders: TEACTascam 80-8.8 track, TEAC 3340S 4 track. Ampex 800 2 track, Sony TC 630 2 track, Dokorder 7050 2 track

Mixing Consoles: Biamp 16/21 16 in x 4 or 2 out TEAC/Tascam Model 5.8 in x 8.4, or 2 out, TEAC/Tascam Model 2.6 in x 6 or 4

Monitor Amplifiers: Biamp 1225 750w stereo, Lafayette LA2525 guad 25W/ch , Bogen Challenger 100w, Acoustic 200 slaves, Dynaco 60w stereo

Monitor Speakers: Jensen w/pizos, Presage w/pizos, Utah

Echo, Reverb, and Delay Systems: H & H Electronics, Maestro Echopiex, Univox Reverb, other systems available upon request Other Outboard Equipment: 4 Soundcraftsmen stereo 10 band ermalizers. Phase Linear Autocorrelator Model 1000, 2 stereo TFAC AN60 Dolby units, Electro Harmonix Clone Theory Chorus effect, patch bays, complete headphone monitoring system, custom 6 & 12 input snakes, Whirlwind 16 ch 100' snake, other special effects available upon request Microphones: Augio technica, Shure, Electro Voice Sony

others available upon request

Instruments Available: Mason Hamlin studio upright acoustic piano, Hohner electric Pianette, Yamaha YC 10 electric organ w Leslie, Fartisa combo-compact w/flanger. Univox Multi-Man string synthesizer w/spec effects, Univox Minikorg K 1 & K 2 synthesizers, 1964 Fender Jazz bass guitar, Hofner Beatle bass guitar, Microfrets 6-string bass guitar, flutes, sax, clarinet, complete Lub wig dbl bass drum set, congas, tambourines, other instru available upon request

Rates: 2 & 4 track-\$15/hr, 8 track inc elec instr-\$25/hr. \$150/8 hrs, 8 track flat rate—\$20/hr, \$125/8 hrs

Extras: We have an extensive selection of amplifiers for any elecinstrict 2' tape provided below retail cost, we offer complete per -musicians, producers composer and lyric writers, food and lodging facilities nearby, custom guitar repairs upon request Direction: We are adding 16 track and complete mobile facilities Credits, special thanks to our associates the Idealist Institute w/ Joi ae Vivre-Vita Keith, Detroit MI and Jeanna Norton, New York NY self-produced musicians Control w. Wally Segieda, and Little Rock Pub Prod Corp w/ Eugene Scott, also partnership com panies Molecular Music Publishing & Silver Stone-Arrow Prod. the Earthmen

AUDIO GRAPHICS SERVICES also REMOTE RECORDING 1516 Ferris Ave., Royal Oak, Michigan 48067 (313) 544-1793

Owner: Audio Graphics Studio Manager: Susan Wolfrum AUDIO HOUSE also REMOTE RECORDING Box 219, Lawrence, Kansas 66044 (913) 843-4916 Owner: Larry Miller Studio Manager: Bruce Liddel

 AUDIO TAPE PRODUCTIONS also REMOTE RECORDING P.O. Box 428, 413 Cherry Street, Potterville, Michigan 48876 (517) 645-7561 Owner: Dean & Patricia Bredwell Studio Manager: Patricia Bredwell

•BARWIG RECORDING CO.

also REMOTE RECORDING *For film sound only 5254 W. Agatite Ave., Chicago, Illinois 60630 (312) 283-2820 Owner: Roy E Barwig Studio Manager: Roy E Barwig

•• BGD RECORDING 1601 Oakton, Park Ridge, Illinois 60068 (312) 698-3644

Owner: Bill G Demis Studio Manager: Bill G. Demis Engineers: Bill G. Demis, Assistants Jim Griswold, "Sugar Shack" Williams

Dimensions of Studios: 21' x 14' x 9' x 17' Irreg.

Dimensions of Control Rooms: 14' x 10' Tape Recorders: TEAC 80-8 + dbx 8 track, TEAC 35 2 2 track; Sony 650-4 2 track, AKAI CS707-D cassette, Pioneer CS650

~accotto Mixing Consoles: TEAC (2) 5-B 16 in x 8 out, TEAC Model 1 8

Monitor Amplifiers: QSC, Sony Monitor Speakers: IBL 4311, Auratone, Sony

Echo, Reverb, and Delay Systems: Furman reverb, advanced Audio dicital dela Other Outboard Equipment: dbx Noise reduction, dbx limiting

Microphones: Sennheiser, Electro-Voice, Shure Instruments Available: Baldwin baby grand, ARP String Ensemble, Fender Rhodes, Slingerland drums, Fender amps Rates: \$25/hr recording & mix down

•BOULEVARD RECORDING STUDIOS, INC. 641 Madison St., Oak Park, Illinois 60302

(312) 386-5388 Owner: Hal Kaitchuck & Eleanor Kaitchuck Studio Manager: Hal Kaitchuck

**BROADWAY SOUND STUDIOS INC. 620 N. Broadway, Milwaukee, Wisconsin 53202 (414) 276-1220 Owner: Eric R Hoppe

Studio Manager: Eric R Hoppe

•CENTURY & SOUND SLIDE

also REMOTE RECORDING 1018 Busse Highway, Park Ridge, Illinois 60068 (312) 696-0675 Owner: Allen I Tallman Studio Manager: Allen I Tallman

••COMMERCIAL FEATURES. INC. also REMOTE RECORDING 3650 Washington Blvd., Indianapolis, Indiana 46205 (317) 926-5570 Owner: Paul Bender Studio Manager: Paul Bender

•DEER CREEK AUDIO ILLUSIONS also REMOTE RECORDING

865 Clark Ave., Webster Groves, Missouri 63119 (314) 962-7635 Owner: Susan Harwood Studio Manager: Christopher Harwood

•DUWAYNE KLOOS RECORDING/WESTMARK CUSTOM RECORD & TAPES

also REMOTE RECORDING 8345 Duluth St., Golden Valley, Minnesota 55427 (612) 544-3050 Owner: DuWayne Kloos Studio Manager: Production Manager Joann Kloos

••FAITHFUL SOUND STUDIOS 712 W. Clark St., Urbana, Illinois 61801 (217) 328-5065 Owner: Antipode Arts, Inc Studio Manager: Mark Rubei

•FOSTER COMMUNICATIONS also REMOTE RECORDING 401 E. Court Street, Cincinnati, Ohio 45202 (513) 241-9937 Owner: Dennis Foster Mat Foster Joe Ouinn Studio Manager: Dennis Foster

••GROUP EFFORT SOUND STUDIO 8317 Beta, Cincinnati, Ohio 45231 (513) 931-TAPE

Owner: Wayne A Hartman and Dan T Murphy Studio Manager: Dan Murphy Engineers: Wayne Hartman, Dan Murphy, Jerry Lane, Gary Bates

Dimensions of Studios: 33' x 24', Plano Room 16' x 14', Iso Room 8' x 7

Dimensions of Control Rooms: 21' x 12' Tape Recorders: Otari MX5050 8D 8 track; (2) TEAC A-3440 4 track, Ampex AG 440B 2 track, Pioneer CTF-1250 cassette; (2)

Sony TCK-60 cassette, Otan MX 5050 2SHD 2 track Mixing Consoles: (2) Tascam Model 5 modified & cascaded 16 n x 4 out

Monitor Amplifiers: Phase Linear 400, JDM Headphone system Monitor Speakers: JBL 1, 166, Auratone 5C

Echo, Reverb, and Delay Systems: Audicon Plate, Orban 111B. Fisher, (2) Deltalab DI.4, DL-2, Lexicon PCM-41, Deltalab Memory Module

Other Outboard Equipment: (2) Technics Parametrics, Audio Control C 22, UREI 550A, 565T; (2) Orban 245E, (3) MXR 1/3 octave EQ. (4) Accessit Noise Gates, Spectra-Sonics 610, Fair child De Esser, Systech & MXR Flangers, dbx 161, 162, 163 EXB Exciter, dbx & BEL Noise Reduction all

Microphones: AKG Beyer, Electro Voice, Neumann, PZM, Sen nheiser, Shure, Sony

Instruments Available: Ludwig drums, Zildnan cymbals, Hammond B 3 w/122_1928 Ellington grand, Bhodes, ARP Odyssey, Korg, Crumar Orchestrater, Fender amps Rates: \$25'hr 8 track

••GST MUSIC PRODUCTIONS 17 Ponca Trail, St. Louis, Missouri 63122 (314) 821-8432 Owner: Greg Trampe Studio Manager: Alan Shalon

••HANF RECORDING STUDIO also REMOTE RECORDING 1825 Sylvania Avenue, Toledo, Ohio 43613 (419) 474-5793 Owner: Buth C. Hanf Studio Manager: Jun Thomson

•HARMONY RECORDING STUDIO also REMOTE RECORDING 4095 Meadowbrook Lane, St. Louis Park, Minnesota 55426 (612) 933-6494 Owner Bill M Ja Studio Manager: Bill M. Jason

••HARTWOOD RECORDING also REMOTE RECORDING 4607 Jeffers Road, Eau Claire, Wisconsin 54701 (715) 834-5122 Owner: John and Buth Hartzell Studio Manager: John F. Hartzell

••JABAUGHN STUDIOS also REMOTE RECORDING 3147 Snowhill Road, Washington Court House, Ohio 43160 (614) 335-6519 Owner: Bob West Studio Manager: Bob West

• JOR-DAN RECORDING INC. 1607 E. Roosevelt Road, Wheaton, Illinois 60187 (312) 653-1919 Studio Manager: Dan Zimbelman

••KNIEP KAMP PRODUCTIONS 31 N. Prindle, Arlington Heights, Illinois 60004 (312) 398-1637 Owner: Alberto Kniepkamp Studio Manager: Alberto Kniepkamp

•LAB RECORDING STUDIO also REMOTE RECORDING 2908 Parkway Drive, Highland, Indiana 46322 (219) 838-0747 Owner: Neophon Productions Studio Manager: Larry A Brechner



..LOST NATION SOUND RECORDING STUDIO also REMOTE RECORDING State Route 329, Box 125, Guysville, (Athens) Ohio 45735 (614) 662-5701 Owner: Dave Aiken Studio Manager: Nancy Aiken

••LRS RECORDING STUDIO also REMOTE RECORDING 107 Elmwood Place, Athens, Ohio 45701 (614) 592-1939 Owner: Louis Ralph Stevens Studio Manager: Louis Ralph Stevens

••MAGNETIC STUDIOS, INC. 4784 N. High St., Columbus, Ohio 43214 (614) 262-8607 Owner: John Fippin Studio Manager: John Fippin

 MASTERPIECE SOUND STUDIOS also REMOTE RECORDING 1611 Webb Street, Detroit, Michigan 48206 (313) 867-7874 Owner: Sylvia Moy Productions Inc

Studio Manager: Sylvia Moy

 MIXED MODES PRODUCTIONS 254 Durand St., East Lansing, Michigan 48823 (517) 351-3340 Owner: Dennis G. Jablonski Studio Manager: Wendy J. Duch

••THE MUSIC FACTORY also REMOTE RECORDING 11249 North Riverland Road, Meguon Wisconsin 53092 (414) 242-9010 Owner: Paul Edwards Studio Manager: Grea Pinette

••MUSICIANS WORKSHOP also REMOTE RECORDING P.O. Box 10558, Chicago, Illinois 60610

(312) 774-1850 Owner: Ralph M. Ostrom Studio Manager: Balph M. Ostrom

••M Y BECORDING STUDIO

also REMOTE RECORDING 7349 Croigmere Dr., Cleveland, Ohio 44130 (216) 884-0650 Owner: Dennis Yurich, Tom Melter Studio Manager: Dennis Yurich

••NEWMAN A-V COMMUNICATIONS also REMOTE RECORDING 1635 South Division Ave., Grand Rapids, Michigan 49507 (616) 452-1503 Owner: Newman Communications Inc Studio Manager: Stan Barnes

 NORTHSIDE RECORDING 3946 Spring Grove Ave., Cincinnati, Ohio 45231 (513) 541-6811 Owner: Northside Recording Ltd Studio Manager: Bob Rowlette

•NOBWEST BECORDINGS also REMOTE RECORDING 123 South Hough Street, Barrington, Illinois 60010 (312) 381-3271 Owner: Mark & Natalie Karney Studio Manager: Mark Karney

Engineers: Mark Karney, Eric Marto, Vic Owen, Jared Karney, lenny Skeels

Dimensions of Studios: Studio 'A' 30' x 26' with drum booth & vocal booth, Studio 'B' Booth

Dimensions of Control Rooms: Control Room A' 26' x 14', Control Room 'B' 10 x 12

Tape Recorders: Ampex AG 440 4 track, Ampex AG 440 2 track, Ampex AG 351 2 track, Ampex AG 440/351 2 track Mixing Consoles: Tascam 5B 14 in x 4 out, Tapco 6201B 6 in x

Monitor Amplifiers: JBL Monitor Speakers: IBL 1.100 & Auratone

Echo, Reverb, and Delay Systems: Plate Reverb, MXR digital delay

Other Outboard Equipment: dbx on all tracks, compressors, graphic equalizer, noise gates, guarter track R-R recorders assette recorders

Microphones: Shure SM 81, Sony ECM 22P, RCA 77DX, Shure SM-56 and a variety of others

Instruments Available: Conover grand plano

Rates: \$40/hr Block rates available Extras: High Speed cassette duplication, Audio-Visual Pulsing, 16mm mag film transfers, In house A V production facilities, Screening room for movies & multimedia

Direction: In addition to being a full-service audio-visual facility. Norwest specializes in the production of acoustic music. We offer a creative and comfortable facility for the acoustic musician who wishes to produce a high quality product. We are an alternative for the musician who desires something other than a highly produced manipulated sound. From microphone to pressing we strive to produce a clean lifelike reproduction of the performance. Our records are produced on the Depot label

• POSSUM RECORDING STUDIO 4924 Plymouth Rd., Mound, Minnesota 55364 (612) 472-1239 Owner: Jun Thompson Studio Manager: Jim Thompson

•PRANGE SOUND STUDIO also REMOTE RECORDING 25436 Mary St., Mt. Clemens, Michigan 48045 (313) 949-5816 Owner: Steve Prange Studio Manager: Janet Prange Engineers: Steve Prange Dimensions of Studios: 21° x 17.5° Dimensions of Control Rooms, 11° x 10° Tape Recorders: TEAC A 3440.4 track, TEAC A 3340.4 track, Vector Research VCX 300 cassette deck Mixing Consoles: Tapeo C 12 Catalina Series 12 in x 3 out Monitor Amplifiers: Kenwood KA 801 Sanyo headphone amplifier Monitor Speakers: Polk A idio Model 7A Echo, Reverb, and Delay Systems: Tapico 440 reverb unit SWTPC two channel analog delay unit Other Outboard Equipment: dbx noise reduction (six channels) dbx stereo compression unit flanger. SWTPC function generator Switchers for end backbar Switchers f. 44. point parchage Microphones: AKG: D200F: D160F1: Shure: SM:57: Shure: SM:54: Fressure Zone Microphones Instruments Available: Ludwid drum set with Ziljian cymbals and roto toms various percussion and plane Rates: \$12 hr plus tape block rates available \$20 hr remote

 BUD PRESSNER RECORDING SERVICE also REMOTE RECORDING 4839 So. Broadway, Gary, Indiana 46409 (219) 884-5214 Owner: Bud Pressne Studio Manager: Bud Pressner

••RAINBOW RECORDING STUDIOS also REMOTE RECORDING 2322 S. 64th Ave., Omaha, Nebraska 68106 (402) 554-0123 Owner: Nils Erickson Studio Manager: Steve Sleeper

••RIVER ROAD RECORDING STUDIO also REMOTE RECORDING 409 Ohio, Pittsburg, Kansas 66762 (316) 232-9554 Owner: Wilson Bros Inc Studio Manager: Bird Wilson

• ROLLING RECORDING STUDIO also REMOTE RECORDING 53 Lakeshore Dr., Carpentersville, Illinois 60110 (312) 428-8454 Owner: Alan D. Sauer Studio Manager: Alan D. Sauer

•• RON ROSE PRODUCTIONS, LTD. 29277 Southfield Rd., Southfield, Michigan 48076 (313) 424-8400 Owner: Ron Rose Studio Manager: Don Wooster

•• RPM RECORDING & SOUND also REMOTE RECORDING 6730 S. Pulaski, Chicago, Illinois 60629 (312) 735-9476 Owner: Rich Morford, Mike Pedgorny

Studio Manager: Rich Morford, Mike Podgorny Engineers: Rich Morford, Mike Podgrony, Steve Morford Dimensions of Studios: 22' x 15' x 10' Dimensions of Control Rooms: 10' x 13' x 9' Tape Recorders: Tascam 80.8 widbx 8 track, TEAC 3440.4

track TEAC C 3 cassette

Mixing Consoles: Tangent Series 4 (modified) 16 in x 8 out, BiAmp 1682 16 in x 2 out

Monitor Amplifiers: Metron M 400, Biamp TC, OSC (phones) Monitor Speakers: Cerwin Vega 215S Auratones

Echo, Reverb, and Delay Systems: Lexicon Digital Delay, Sound Workshop Stereo Reverb Other Outboard Equipment: Biamp EQ210 Graphic EO,

Symetrix limiters, Systech Studio Flanger Microphones: Neumann, Sennheiser, Shure, Electro Voice, Audio technica

Instruments Available: Oberheim OBX, Fender Rhodes, Crumar I organ, ARP Odyssey Synth, Fender Twin Reverb Amps Rickenbacker Bass Fender, Aria, Yamaha guitars All in-

struments by appointment Rates: \$20 hr Basic Rate. Call for Special Block Booking and project rates

••6161 SOUND STUDIOS also REMOTE RECORDING 6161 N. Lemont Ave., Chicago, Illinois 60646 (312) 282-6961 Owner: Jim Poulson & Fred Reynolds Studio Manager: Jim Poulson & Fred Reynolds

•SON SWEPT SOUND STUDIO, LTD. also REMOTE RECORDING 19789 Norborne, Redford, Michigan 48240 (313) 537-2664 Owner: Ray A Geisert Studio Manager: Millie Geisert

 STABBEAT BECORDING STUDIOS also REMOTE RECORDING 9 East Larkdale Drive, Deerfield, Illinois 60015 (312) 945-3555 Owner: Steve Cronen Studio Manager: Steve Cronen

STIX & LYC'S, INC. 31925 Van Dyke, Warren, Michigan 48093 (313) 882-6018 Owner: Beau Williams Tim Holmes Mark Novachcoff & Joel Studio Manager: Mark Novachcoff

 SOTO SOUND STUDIO also REMOTE RECORDING 931 Sherman Ave., Evanston, Illinois 60202 (312) 475-9556 Owner: Jerry & Claudine Soto Studio Manager: Jerry Soto Engineers: Jerry Soto Dimensions of Studios: 30 x 30 w vocal booth Dimensions of Control Rooms: 15' x 25'

Tape Recorders: Tascam Series 70.8 track, (2) TEAC 2340.4 track. Osari MX5050 1. track, Ampex PB10 1.5 track, Pioneer RT710 14 track, TEAC & Sharp cassettes

Mixing Consoles: Tascam Model 10 12 in x 4 out Tascam Model 10 8 in x 4 out, Tascam Model 5 8 in x 4 out, Tascam Model 2 A 6 in x 4 out, Tascam Model 1 8 in x 2 out

Monitor Amplifiers: Phase Linear 700 QSC 51, Technics SU7300 Altec 1288

Monitor Speakers: Altec Iconics, Bic Venturi Formula 4's, Auratones, Revilistic 40 1247's, Transistor radio Echo, Reverb, and Delay Systems: Roland Space Echo RE 201

MXR Flanger Tapro reverb

Other Outboard Equipment: dbx 160 161 compressor limiters, Symetrix CL.1(1) compressor/limiter, dbx noise reduc-tion, Sounderaftsman RF 1,201 R graphic equalizer, Gerard

Zero 100 turntable MXR noise gate Microphones: Sennheiser AKG, Shure, Electro Voice, Audio technica

Instruments Available: Guitar keyboard & bass amps, Ludwig trums Hammond B.2 organ (w percussion) (2) Leslie speakers Fender Rhodes, Moog Prodigy Syntheiszer, Wurlitzer baby grand Space Drum, asst percussion guitar voice-box, Gibson Les Paul "Gold Top " Epiphone bass, Acoustic guitar, Rhythm



machine clik track strings Rates: 1 4 trk/\$15/hr, 2 8 trk/\$30/hr or 6 hrs/\$135 Extras: Studio musicians available guitar, keyboard arranging or production services available by Jerry Soto Direction: We're the only studio in this region to our knowledge that can arrange your lyrics to music, record your voice on your song with a complete rhythm section & more! Having done this for numerous clients (including "Mr. ("ub" Ernie Banks.) We teel we can amaze you with our specialized talents. We record bands tool Rock, R&B, Funk new wave Italian Classical, Greek Salsa Gospel, Blues, Reggae, Jazz, music for dance companies, Film Soundtracks for the CTA, radio spots. Video Soundtracks for WLS TV channel 7. We re-very interested in meeting you

••STUDIO 66

66 Sycamore, Wyandotte, Michigan, 48192 (313) 284-4311 Owner: Allen Bates and George Milkovich Studio Manager: Al Bates

••SUGAR BUSH RECORDING INC. also REMOTE RECORDING

RR #5, Sullivan, Indiana 47882 (812) 268-5605 Owner: Ron Lunas James Lane, B.T. Bean Studio Manager: lames Lane Pon Lucas Engineers: Ron Lucas Dimensions of Studios: 16' x 21 Dimensions of Control Rooms: 12 x 16 Tape Recorders: Scully 280 8 1" 8 track Pioneer RT 2022 2 track, Pioneer RT 1050.2 track. Nakamichi 580 cassette Mixing Consoles: Quantum QM 168.16 in x 16 cut Monitor Amplifiers: Yamaha P 2200, Yamaha P 2050, Sansui Monitor Speakers: IBI 4311 Conirol monitor IBL 4301 Conirol Auratone menitors Echo, Reverb, and Delay Systems: Master Boom Siudio B Other Outboard Equipment: Second direct boxes, DOD direct boxes, MXR Dual uniter, Conquest Sound Cables 8 channels dbx, Yamaha Headphones Microphones: Neumann, AKG Shure Instruments Available: Yamaha Conservatory grand piano, Fender Rhodes, Yamaha G 50 112 guitar ami - Piavay bass guitar Peavey bass amp, Martin D-35 guitar. Gretsch drum kit Musser Marimba, Percussion accsy, Hammon i M 3 w Leslie,

Synthesizers by appointment Rates: 8, 4, 2 Track record, mix, edit \$40 hr, Block time \$35 hr

 THIN AIR RECORDING also REMOTE RECORDING 410 Allen St., Maumee, Ohio 43537 (419) 893-0337 Owner Ben Solomon Studio Manager: Ben Solomon

••TIN EAR RECORDING STUDIO also REMOTE RECORDING 1437 W. Howard St., Chicago, Illinois 60626 (312) 274-8999

Owner: Bill Landow

Studio Manager: Claudia Landow Direction: Affiliation with Acoustic Revival Records. We are primarily specializing in Acoustic music especially Bluegrass & Gospel records & we have established a reputation for clean δt pure sound quality without the use of "gimmicks" Two current record releases are Larry Sparks. Ramblin Leiters" & Wade Hampton Millar in the Days I went A Courtin" Both on Acoustic Revival-Our experienced staff & top quality equipment make the difference

••T.J. SOUND PRODUCTIONS INC. 27040 Ryan Rd., Warren, Michigan 48092 (313) 751-7476 Owner: Jeff Briggs, Tom Limbaugh, Adam LaRose, Barb Hasselfeldt Studio Manager: Jeff Briggs

.. TOM MIX RECORDING TETRASONICS 705 Mall Germain, St. Cloud, Minnesota, 56301 (612) 253-6510, (612) 253-6860 Owner: Mark Thelen Studio Manager: Tom Schmidt

..TOUSANA RECORDING STUDIO

also REMOTE RECORDING 8825 So. Oglesby Ave., Chicago, Illinois 60617 (312) 731-6297 Owner: Louis Tousana Jr

••TRACKS ON 5th

250 East 5th Street, Suite #105, St. Paul, Minnesota 55101 (612) 225-8102 Owner: Michael McKern Studio Manager: Michael McKern

• UNIVERSITY RECORDING STUDIOS also REMOTE RECORDING 1896 North High Street, Suite No. 35, Columbus, Ohio 43201 (614) 291-7800 Owner: Tom Howard Studio Manager: David Sheward

• RON WHEELER ENTERPRISES

also REMOTE RECORDING 202 West Plum Street, Robinson, Illinois, 62454 (618) 544-7898 Owner: Ron Wheeler

••WILBUB_SCHWARTZ PRODUCTIONS also REMOTE RECORDING 1209 Indian Rock Lane, Salina, Kansas 67401 (913) 825-7029 Owner: Tom Wilbur, Don Schwarz Studio Manager: Don Schwartz

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All studio information listed has been supplied to the Mix by studios responding to questionnaires mailed in July, 1981. People, equipment and locations change, so please verify critical information with the studios directly. The Mix does not take responsibility for the accuracy of the information supplied to us by the studios.



···AGENCY RECORDING, INC.

676 N. LaSalle St., Chicago, Illinois 60610 (312) 236-3632 Owner: John Garamoni Studio Manager: John Garamoni

•••AUDIO SERVICES COMPANY INC. also REMOTE RECORDING 3016 Home Street, Mishawaka, Indiana 46544

(219) 255-5198 Owner: Audio Services Company Inc., President. Phil Ostrander

Ostrander Studio Manager: Bill Mullin Engineers: Rick Bakos, Jim Greulich, Jeff Grauel, Cindi Hatfield, Traffic Mgr. Cindi Haffield Dimensions of Studies: 25 × 35 × 11 × 14 × Dimensions of Control Rooms: 12 × 15 × Tape Recorders: Scully 16 track, (2) Otan MK II 2 track, Crewn 800 2 track, Ampex 440 mono, Telex duplicator Mixing Consoles: McL 24 channel, Tascam model 5 Monitor Speakers: EV PI-15-3, Sentry V, Sentry 100 Auratores Echo, Reverb, and Delay Systems: Lexicon digital delay Other Outboard Equipment: dbx noise reduction compression/limiting, Tapco 10 band graphic Microphones: Electro-Voice, Shure, RCA, AKG Instruments Available: 6' Kawai baby grand, Rhodes pano, ARP Omni, ARP 2600, Ludwig drums, Hammond C-3 Rates: 16 track\$55/hr, 8 track\$40/hr, block booking



Audioloft Studios Macks Creek, Missouri

•••AUDIOLOFT STUDIOS P.O. Box 7-11, Old Hwy. 54, Macks Creek, Missouri 65786 (314) 363-5432 Owner: B.J. Carnahan Studio Manager: B.J. Carnahan, Brad Edwards Engineers: Brad Edwards, B.J. Carnahan Dimensions of Studios: 20' x 30' Dimensions of Control Rooms: 14' x 15' Tana Recorders: TEAC 85.16 track TEAC

Tape Recorders: TEAC 85 16 16 track, TEAC 80.8 8 track, TEAC A7300RX 2 track, TEAC A7300 2 track, TEAC 3340S 4 track, Pioneer & Nakamichi cassette decks. Mixting Consoles: Tangent 3216 24 in x 16 out

Monitor Amplitiers: Bose, Crown Monitor Speakers: JBL, Klipsch, Auratones, Beyer DT-100 Head-

phones Echo Reverb. and Delay Systems: AKG BX-10 Tanco 4400

Lexicon Prime Time Other Outboard Equipment: dbx 160 limiters, Sony turntable,

dbx and Dolby Noise Reduction

Microphones: Beyer 160, 88, 101 201, 500, Shure SM-57's, AKG 451's, PZM's, AKG D1000, UREI Direct Boxes

Instruments Available: Fender Twin Reverb, Fender Bassman, Slingerland drums, Fender Rhodes, Kawai grand piano, Lester Tack Piano, Elka String Machine, several assorted guitars, bass, Sho-Bud pedal steel Rates: Call for rates

••AUDIO MEDIA

Suite, L127, Manchester Building, Fargo, North Dakota 58102 (701) 237-6863

Owner: Lee Massey

Studio Manager: Lee Massey

Engineers: Lance Legler Tony Rheault Doug Geston Dimensions of Studios: Studio A 12'3" x 17'4", Studio B 23' 8" x 33'6"

Dimensions of Control Rooms: Studio A 10' 10" x 11' 6" Studio B 13' 10" x 1511

Tape Recorders: Scully 100 16 track Scully 280B 2 track (2) Otari MX5050 2 track, Revox A77 1 track, TEAC A 7300 1

Mixing Consoles: Tangent 3216 20 in x 16 out, Oakwood Audio

12 in x 4 out

Monitor Amplifiers: Crown 1 D150A, 1-D150, 1 D50 Monitor Speakers: JBL 4311's, Auratones

Echo, Reverb, and Delay Systems: MICMIX Master Room Super C^{\prime} -3 MXR Digital Delays

Other Outboard Equipment: 2 UREI LA4 compressor/timiters, 2 Spectra Sonics 610 complimiters, Orban Parasound Parametric Stereo Equalizer, dbx 154 Noise Reduction, dbx 157 Stereo Noise Reduction, Pioneer, Sharp and TEAC Cassette Decks Microphones: 2 Neuman U87's 2 Km84's 2 P2M's 3 Neumann U47's, 2 Electro-Voice RE 20's, 3 Shure SM57's, SM7, SM5B Instruments Available: 5 piece drum set Min: Moog, Tympani, Sequencer for Mini Moog, Howard baby grand piano, Yamaha C'P-70B piano Mini Korg Synthesizer, Fender Rhodes Rates: Available upon request

•••AUDIO MIXERS RECORDING COMPANY, INC 740 North Rush Street, Chicago, Illinois 60611 (312) 943-4274 Owner: A M R C Inc Studio Manager: Steve Schwartz



Audio Village Recording Studio Bloomington, Indiana

•••AUDIO VILLAGE RECORDING STUDIO

also REMOTE RECORDING 1000 West 17th Street, P.O. Box 291, Bloomington,

Indiana 47402 (812) 332-7475

Owner: Wayne Gunn, Michele Jamison

Studio Manager: Wayne Gunn

Engineers: David Burks, Wayne Gunn, Wayne Jackson, Jack Burke

Dimensions of Studios: Main Room. Live end 12' x 14', Dry end 11' x 14', Drum Booth 10' x 10', all asymetrical, isolated vocal booth 10' x 12'

Dimensions of Control Rooms: 12' x 25' (flat ±4 db)

Tape Recorders: MC1 JH16 16 track, MCI JH110B14 2 track,

Ampex (3 ea) ATR 700 2 + ¼ track, Nakamichi, TEAC, BIC cassette duplication system, custom cassette loading **Mixing Consoles**; Carvin MX1604 16 in x 4 out, TEAC Model 3

8 in x 4 out, Tapco 6200 6 in x 2 out Monitor Amplifiers: Sansui, Pioneer 250W

Monitor Amplifiers: Sansul, Ploneer 250W Monitor Speakers: ADS 91011, ADS 700, Auratone

Echo, Reverb, and Delay Systems: XL305 MasterRoom, Ham mond spring, Delta Labs DL2

Other Outboard Equipment: Kepex II (2 ea) Gain Brain II, analog delay, dynamic noise hitler, graphic equalizers Microphones: Neumann KM84 (2), AKG 414 (4) Sennheiser 421 (2), EV RE-55 (2), 1776, RE 20 (2), Beyer M500 (2); Shure

SM57 (2), Sony 990, EV665 Instruments Available: Grand piano, 6', (1980), Rhodes 88, (various synthesizers and other instruments can be hired locally at

very low rates) Rates: \$45/hr, 3 hour blocks \$100, 2 track \$25/hr. Rehearsals 4 hours for \$25 as available

Extras: Five acre wooded "Relaxed Country Setting", Kitchen, home-like atmosphere, camping, 2 blocks to liquor store, 6 blocks to hotels

Direction: Up the gravel road behind the faceless strip develop ment of contemporary America is the home of Audio Village, oc cupying the still verdent section of the hillside Wayne, Dave and Michelle who make sound, music pottery, (and silly prose) in this "relaxed country setting" are dedicated to helping you be creative in the realization of your project at the lowest possible cost. Bloom around the world. With five symphonies we have access to a variety of musical talent usually available only in a major metropolitan area (former studies of Gilloy Sound)

•••CHAPMAN RECORDING STUDIO 228 West 5th, Kansas City, Missouri 64015 (816) 842-6854 Owner: Chuck Chapman

Studio Manager: Chuck Chapman

•••CHICAGO TRAX RECORDING STUDIO 2656 N. Wayne Ave., Chicago, Illinois 60614

(312) 525-6565

Owner: Reid Hyams, Tom Kee, Al Ursini Studio Manager: Reid Hyams, Tom Kee

Engineers: Al Ursini

Dimensions of Studios: 20 x 22 Isolation Booth A' 7' x 8', Isolation Booth 'B' 4' x 5'

Dimensions of Control Rooms: 12' x 10

Tape Recorders: Otari MTB 90 w Autolocater 16 track TEAC/ Tascam 80-8 w dx 8 noise reduction 8 track, Otari MX5050

w/dbx 2 track AIWA #6900 cassette deck Pioneer HT-701 14 track

Mixing Consoles: Tangent 3216 16 in x 16 out Tangent 802AX 8 in x 2 out

Monitor Amplifiers: UREI 6250, Crown D156A. Crown D75 & D60

Monitor Speakers: JBL 4313's JBL L 100's Auratones Echo, Reverb, and Delay Systems: Echo Plate reverb Lexicon Prime Time Digital Delay. Orban 111B Dual reverb



Other Outboard Equipment: UREI LA4's dbx 165 com-pressors; Eventude 910 Harmonizer, UREI 545 Parametric Equalizer; Pultec EQH-2 Program Equalizer, UREI 530 Graphic Equalizers, Orban Stereo Sythesizer

Microphones: Neumann U-87's, AKG 414 EB's, D202E; Crown PZM's; Electro-Voice RE-20's; Sony ECM 22's, ECM 51's; Beyer M260's, Audio-technica 813; Shure SM 81's, 57's; RCA 77-DX. Instruments Available: 61/2' grand piano, Rodger drums w/4 snares, Fender, Traynor, Ampeg & Yamaha guitar amps; Keyboard synthesizer

Rates: 16 Track recording \$40/hr, 8-2 Track recording: \$30/hr, block time rates available

•••CREATIVE IMAGES also REMOTE RECORDING 1321 Summit, Toledo, Ohio 43604 (419) 241-5961 Owner: David H Peterson Studio Manager: Rene Cordell



Crosstown Recording Kalamazoo, Michigan

•••CROSSTOWN RECORDING

601 East Crosstown Pkwy., Kalamazoo, Michigan 49001 (616) 343-7972

Owner: Brandon Wade

Engineers: Brandon Wade Dimensions of Studios: 35' x 30'

Dimensions of Control Rooms: 26' x 16' (7 sided windowless control room)

Tape Recorders: MCI JH114 16 track; MCI 110 2 track, 3M 64 2/4 track, Nakamichi cassette recorders

Mixing Consoles: Soundcraft 1624 24 in x 24 out

Monitor Amplifiers: BGW

Monitor Speakers: UREI 813, JBL 4313B, Auratones, Altec Model 19

Echo, Reverb, and Delay Systems: Echoplate, MICMIX Master Room, Eventide Harmonizer/delay

Other Outboard Equipment: UREI LN1176, Teletronix LA-2A, Gain Brain, Kepex, Eventide Flanger, Peterson Strobe Tuner, dbx

Microphones: Neumann 87, 84, 47, Sennheiser 441, 421, AKG 414EB, 451; Electro-Voice RE-20 & RE-16, Shure SM56, SM81, PML DC-73; Sony ECM-50, Countryman 101, Crown PZM, Direct Boxes by Countryman, Ax-Max; Sescom and Westlake. Instruments Available: Baldwin SD-10 9' concert grand, Hammond B3 with Leslie, Mesa Boogie Amplifiers, Fender Super reverb, Ampeg B-15N Bass Amp, Sonor and Ludwig Studio drum sets. Fender Rhodes

Rates: 16 track \$60/hr, \$350 per 7/hr block, 2 track \$50/hr

•••ELEPHANT RECORDING STUDIOS also REMOTE RECORDING 21206 Gratiot Ave., East Detroit, Michigan 48021 (313) 773-9386 Owner: Al Abood, John Giaier Studio Manager: John Giaier

•••EAST RECORDING STUDIOS

11 East Hubbard St., Chicago, Illinois 60611 (312) 644-0589 Owner: Jum Poulsom and Fred Reynolds Studio Manager: Im Poulsom and Fred Reynolds

•••GATTUSO BROTHERS RECORDING also REMOTE RECORDING 1300 Market Ave., Canton, Ohio 44714 (216) 456-2806 Owner: Gattuso Music Center Studio Manager: Michael Lamb Engineers: Michael Lamb, Brad Dutton, Rick Gattuso



Dimensions of Studios: 26' x 22'. Dimensions of Control Rooms: 18' x 22'

Tape Recorders: 3M M-79 16 track; Otan 5050B 1/2 track, TEAC 3300 SX2T 1/2 track, Otan 50508 HC 8 track, Otan 5050 BO-2.4 track

Mixing Consoles: Sound Workshop 24 in x 16 out Monitor Amplifiers: Yamaha P2200, Phase Linear A30, BGW

Monitor Speakers: JBL 4333, JBL 4311, Little David

500, Auratone 5C sound cubes Echo, Reverb, and Delay Systems: Orban Parasound IIIB, Delta Lab DL-2 w/memory module, Lexicon PCM41, Yamaha E1010 analog

Other Outboard Equipment: Symetrix Duel noise gates, dbx 165, EXR exciter, White 4005 Equalizer, MXR Pitch Transposer, Eventide Harmonizer, White 4001 Equalizers, MXR Flanger Doubler, MXR DDL

Microphones: Neumann U-87, AKG 414, Sennheiser 441 & 421, AKG D12, E-V PL20, Shure SM7, SM82, SM57

Instruments Available: Yamaha CP-80, GS-2, CS-80, Hammond B-3, complete drum kit, Hohner Clavinet, LP congas & percussion instruments, variety of amps and guitars Rates: \$50/hr flat rate Special package rates are negotiable

Extras: Game room, studio musicians, video demos, cassette duplication, refreshments, 24 hr recording, arrangements, production, 45's, albums, radio jingles, instruments are supplied for

Direction: Gattuso Brothers' Studio-the first professional 16 track 2" studio in the AkCan area At Gattuso's you'll find a uniquefacility; a professional studio within a full service music company Known throughout northeastern Ohio as "The Musician's Choice", the studio was designed for musicians by musicians. A fantastic selection of instruments, electronic effects, and synthesizers are provided absolutely free. An easy going atmosphere, professional people to work with, and affordable rates makes Gattuso Brothers' Studio your #1 choice for all of your recording needs. Call or write today for further information about this fine facility

••HIGH FIDELITY RECORDING. INC. also REMOTE RECORDING 1059 Porter, Wichita, Kansas 67203 (316) 262-6456

Owner: Corporation James Strattan, Pres

Studio Manager: James Strattan Engineers: Jun Strattan, Jun Wedel, Nancy Strattan, Newton Graber, John Salem

Dimensions of Studios: 25' x 28' x 11' x 6'

Dimensions of Control Rooms: 15' x 25' Tape Recorders: IEM 2" transports w/64 pt search to cue 2" format, 14" reel capacity 16/30 tracks; Ampex ATR 102 w/search 2 track, Otan ¹/₂" Mark II.4.4 track; 7) Crown Recorders 800 series full tr, 2 tr, ¹/₄ tr, IEM location system 14" reels 16 track; Ampex MM 1000 8 track, and numerous cassette & 8 track cart deck, TEAC 3340.

Mixing Consoles: Custom record console 28 in x 21 out: Custom mixing console 33 in x 2 out, Tapco 6200 w/phantom for 2 tr. location/video

Monitor Amplifiers: LF & Control room 4 ea 220 watts/8 ohms, (HF horns) 2 ea 30 watts/16 ohrns, (headphones) 2 ea 55 watts/8 ohms, (fast slew &,002 THD)

Monitor Speakers: Control Room JBL 4315 components w/passive Studio similar but is bi-amped, Auratones, EV Interface

Echo, Reverb, and Delay Systems: EMT plate, Lexicon Prime Time digital delay, Lexicon PCM 41 digital delay, MXR digital delay

Other Outboard Equipment: Noise Reduction: 2) Dolby A301, 2) 361, 320 stereo "B" System, Compressors: 2) dbx 160, 2) 161, 162, 165, 4 custom Variable speed, API Minimag syncronizer (modified to reduce lock-up time), Stereo synthesizer: Orban 254E. De-Esser custom 2 ch, Orban 516EC 3 ch. Outboard EQ Orban 622B parametric 2 ch (infinite notch av), 2 ch low cut (5th order butterWorth), 4 ch shelving EQ

Microphones: Steinway seven ft grand, Hammond B3 organ, Mellotron, Bell Lyra, synares

Instruments Available: \$50/hr week days, \$60/hr: evenings & week-ends, Video: \$125/hr with two 3 Saticon cameras, TBC, character generator & all studio equipment (includes crew). Location Audio \$75/hr 4 hr minimum Video location-ask

*****KEYSTONE RECORDING CO., INC.** also REMOTE RECORDING 8144 Zionsville Rd., Indianapolis, Indiana 46278 (317) 875-0149 Owner: John Helms

Studio Manager: Jim Bogard.

Engineers: John Helms

Dimensions of Studios: 19' x 27' x 121/2' Dimensions of Control Rooms: 14' x 17' x 111/2'

Tape Recorders: MCI JH-10 16 track, Tascam 80-8 8 track, Otan (2) MX50/50 2 track

Mixing Consoles: Neotek Series one 20 in x 16 out

Monitor Amplifiers: BGW 250-D, Crown D-60, BGW 100. Monitor Speakers: JBL 4313 (2), JBL L300, (2) Auratones.

Echo, Reverb, and Delay Systems: MICMIX Master-Room XL 305, Lexicon Prime Time

Other Outboard Equipment: Eventide 910 and 949 Har-monizers, Orban De-Esser, MXR Flanger/doubler, Moog Parametric EQ, dbx, Ashley, UREI compressor/limiters Microphones: Neumann, AKG, Sennheiser, Beyer, Shure,

Electro-Voice, etc. Instruments Available: Kimball grand piano, Pearl drum kit,

ARP and Yamaha synthesizers, Fender Rhodes electric piano, LP perc., Fender amps Rates: \$65/hr-16 track, \$500/day for 8 track mobile

•••KINGSMILL RECORDING STUDIO

1033 Kingsmill Pkwy., Columbus, Ohio 43229 (614) 846-4494 Owner: Kingsmill Recording Studio, Inc Studio Manager: Don Spangler

•••LAKE RECORDING

418 Lake Street, Maywood, Illinois 60153 (312) 344-8760 Owner: Robert Kaider-Kurt Reetz Studio Manager: Robert Kaider

•••LAUSCHE RECORDING STUDIOS 9526 Winton Rd., Cincinnati, Ohio 45231 (513) 521-0015 Owner: Louis F. Lausche Studio Manager: Louis F Lausche

•••LIVONIA SOUND RECORDING also REMOTE RECORDING 15018 Beatrice, Livonia, Michigan 48154 (313) 522-7274 Owner: Henry Vartanian Studio Manager: Ed Moon

•••MARITZ COMMUNICATIONS CO. SOUND also REMOTE RECORDING 1315 N. Highway Dr., Fenton, Missouri 63026 (314) 225-2768 Owner: Maritz Communications Co Studio Manager: David B. Dister

...MOONSOUND, INC.

also REMOTE RECORDING 2828 Dupont Avenue South, Minneapolis, Minnesota 55408 (612) 872-4200 Owner: C Moon, A Herrmann, M Geske Studio Manager: M Geske

•••MULTI-TRACK RECORDING STUDIOS INC. also REMOTE RECORDING

25533 Five Mile Rd., Redford, Michigan 48239 (313) 535-3950

Owner: Nicholas G Canzano

Studio Manager: Breck S. Watt

Engineers: Jeff Jones, Nick Canzano, Breck Watt, Lloyd Grace Dimensions of Studios: Studio A: 35' x 20' x 10; Studio B: 22' x 20' x 10'; Studio C: 10' x 12' (iso booth)

Dimensions of Control Rooms: A, B, C: 25' x 20' x 12'

Tape Recorders: Ampex MM1000 16 track; Technics 1506 2 track; Tascam 25-2 2 track Mixing Consoles: Quantum Gamma A 20 in x 16 out

Monitor Amplifiers: Crown, Bozak, Sankyo, Marantz Monitor Speakers: JBL 4313's, Rogers, LS-3, Time Aligns,

Auratones Echo, Reverb, and Delay Systems: Custom reverb chamber, DeltaLab DL-2, Eventide

Other Outboard Equipment: Orban Parametric EQ's, compressor/limiters by dbx & Gain Brain, Kepex, UREI Graphic EQ's Microphones: AKG, Sony, Sennheiser, Shure, Altec, Electro-Voice

Instruments Available: Yamaha piano, Hammond organ, Fender Bhodes Tama drums Rates: \$60/hr & block rates available

•••PEARL SOUND LTD. 2705 Provincial, Ann Arbor, Michigan 48104

(313) 971-2414 Owner: Ben Grosse Studio Manager: Ben Grosse

Engineers: Geoff Michael, Ben Grosse Dimensions of Studios: Studio 14' x 20', Secondary recording space 25' x 15

Dimensions of Control Rooms: 10' x 10' Tape Recorders: MCI JH-100 16 track: Otan MTR-10 2 track. Otari MX 5050B 2 track, Otari MX-5050 2 track; Technics assette machines

Mixing Consoles: Quantum Gamma-A 24 input x 8 buss/24 tr monitor out

Monitor Amplifiers: Crown & McIntosh

Monitor Speakers: JBL 4311B, Auratones Echo, Reverb, and Delay Systems: Audicon large plate reverb. Ursa Major digital reverb, live chamber, Lexicon Prime Time

Other Outboard Equipment: Eventide Harmonizer, Instant Phaser, Instant Flanger, Loft Delay/Flanger; Valley People Kepex II's, EXR Exciter, Teletronix LA-2A tube limiters (3), DLC Dual

Imiter; Omnicraft noise gates; Orban Parametric EQ, Orban De-Esser; Biamp Graphic EQ (6); dbx noise reduction Microphones: Neumann U87, KM84; AKG 414's, 451's, D12, Shure SM56, SM57's, RCA DX77 ribbon mikes, Sennheiser 441. 421's EV RE-20's PZM's

Instruments Available: Yamaha piano, amps, Marshall, Fender, Vox, Univox, custom made, vintage guitars available, Tama drums

Rates: 16-track. \$55/hr, block rate (10 or more hours). \$45/hr; 8-track: \$40/hr, 2-track: \$35/hr

•••RADEX RECORDING STUDIOS

also REMOTE RECORDING 802 S. Chicago Ave., Freeport, Illinois 61032 (815) 235-9797 Owner: Dexter R Witt Studio Manager: Douglas R Witt

•••RAINBOW BRIDGE RECORDING STUDIO, INC 117 West Rockland Road, Libertyville, Illinois 60048 (312) 362-4060

Owner: Rockland Road Studios, Inc Studio Manager: C. Deutscher and Perry Johnson

...DON D. SHEETS' LITTLE NASHVILLE Whippoorwill Lane-R #3, Box 212,-Nashville, Indiana 47448 (812) 988-2000 Owner: Don D & Marti Mae Sheets

Studio Manager: Don D & Marti Mae Sheets

•••S.I. STUDIOS 2001 Leech Ave., Sioux City, Iowa 51107 (712) 255-9911

Owner: Sound Ideas Productions, Kraig Wall, Greg Wall, Lon Rocheste

Studio Manager: Kraig Wall and Greg Wall Engineers: Kraig Wall, Greg Wall

Dimensions of Studios: 23' x 20 Dimensions of Control Rooms: 15' x 13'

Tape Recorders: Tascam 85-16 16 w/dbx, Otan MX-5050 2 dbx, Otari MX-5050 2 track, TEAC 450 cassette Mixing Consoles: Tangent 32-16 24 in x 16 out

Monitor Amplifiers: Yamaha P2100, Yamaha P2050 (Phones). Monitor Speakers: JBL 4313's, Auratones 5C's Echo, Reverb, and Delay Systems: MICMIX Master-Room

XL-305, Tape Delay Other Outboard Equipment: dbx Model 162 Stereo com-

pressor/limiter, Phase Shifters, Chorus, Flangers Microphones: Sennheiser 441's, 421's, PZM 150B's, 130A's,

Shure SM 81's Instrumente Available: Yamaha conservatory grand piano, Rogers drums w/Zildjian cymblas, Yamaha synthesizer, Fender Rhodes electric piano

Rates: \$60/hr, \$65/hr after 6:00 PM and on weekends Block rates available

•••SOLID SOUND RECORDING STUDIO, INC. 2400 W. Hassell Rd., Suite 430, Hoffman Estates, Illinois 60195 (312) 882-7446 Owner: Judd Sage Studio Manager: Judd Sager/Mike Fraser

...SOUND HOUSE 424 W. Minnesota Ave., Willmar, Minnesota 56201 (612) 235-6404 Owner: New Life Communications, Inc Studio Manager: Ron Huisinga



...SOUND IMPRESSIONS, INC. also REMOTE RECORDING 110 River Rd., Des Plaines, Illinois 60016 (312) 297-4360

Studio Manager: Bill Holtane, C.M.S. Engineers: Todd McGuire-Chief Eng , Timothy Powell-Staff Eng

Dimensions of Studios: A. 525 sq. ft., B. 225 sq. ft. (Isolation

room), C narration only 40 sq ft Dimensions of Control Rooms: A 300 sq ft C 400 sq ft Tape Recorders: MCI JH-10 16 track; Scully 280 MS 4, 2, 1 track; Ampex AG-500 2 track, MCI JH-110 2 track, Nagra III 1 track; TEAC 3440 4 track

Mixing Consoles: MCI 24 in x 16 out, Tascam Model 108 in x 4

Monitor Amplifiers: McIntosh, Crown Monitor Speakers: Altec, JBL Echo, Reverb, and Delay Systems: AKG BX20, Eventide Har-

Other Outboard Equipment: UREI LN 1176 limiters, Kepex Noise Gate, Orban Parametric EQ, Eventide Flanger, dbx NR, Delta Graphic EQ, UREI 565 Microphones: Neumann U87, U47; AKG C451, Shure SM7, SM53, SM57, SM33, Sony ECM377, Electro-Voice 654, 655

Instruments Available: As needed---studio piano---Yamaha grand

Rates: Upon request

•••SOUND MACHINE STUDIOS also REMOTE RECORDING 131-133 E. Kalamazoo Ave., Kalamazoo, Michigan 49007

(616) 381-5662 Owner: Bryce & Ginger Roberson, Norm & Ann Haas Studio Manager: Ginger Roberson

•••STAR RECORDING

3708 W. National Ave., Milwaukee, Wisconsin 53215 (414) 645-7826 Owner: PAC Inc

Studio Manager: Michael Larscheid, Andrew Pigeon

•••STAR TRACK RECORDING

also REMOTE RECORDING (8 track) N. Ridge Rd., East, Elyria, Ohio 44035 (216) 324-4837 Owner: B Vargo & C Shindler Studio Manager: Maryann Vargo

•••SUNSET STUDIO also REMOTE RECORDING 117 W. 8th, Hays, Kansas 67601 (913) 625-9634 Owner: Mark Meckel Studio Manager: Mark Meckel Engineers: Mark Meckel—Jack Trice Dimensions of Studios: 20' x 30' Dimensions of Control Rooms: 20' x 16' Nakamichi, TEAC, AKAI (metal) cassette decks Mixing Consoles: Tascam 15 16 in x 16 out Mixing Amplifiers: Crown DC-300A, Crown DC150A Monitor Speakers: JBL 4311's, Electro-Voice S 153, Auratones and Electro-Voice Sentry V Echo, Reverb, and Delay Systems: Intersound, Eventide, DOD, MICMIX Master-room reverb system MIL-MILA Master-room reverb system Other Outboard Equipment: dbx comp/limiters 161 & 162, SAE ½ Octave EQ, Eventide H910 Harmonizer, MXR Flanger/Doubler, Omni Craft Noise Gates, Moog Parametric EQ's, MXR Stereo Chorus

Instruments Available: 100 yr. old Steinway grand piano. Moog, Rhodes, Elka Strings, Pearl drum kit, Hammond "D" Organ (Just like "B" only 3 inches smaller), Ludwig bell's Conga, K Zildjian cymbals and a 58 Les Paul, Marshall 50 & 30, Gibson Banjo & Mandolin, Emmonds steel Earth Wood acoustic bass, drum sythesizer, lots of percussion instruments Rates: \$45/hr

World Radio History

•••SUPER-LYC'S, INC. 31925 Van Dyke, Warren, Michigan 48093 (313) 979-2305 Owner: Beau Williams, Bob Dennis Studio Manager: Tim Holmes, Mark Novachcoff.

•••TAPE-TRACKS RECORDING STUDIO 2275 Yargerville Road, La Salle, Michigan 48145

(313) 243-1623 Owner: Bill Cuson

Engineers: Bill Cuson Dimensions of Studios: 30' x 41', including two isolation booths.

Dimensions of Control Rooms: 23' x 15' Tape Recorders: Ampex MM1000 16 track; Ampex 440-C 2 track, Ampex 351-2 2 track

Mixing Consoles: Tangent 3216 24 in x 24 out Monitor Amplifiers: BGW 750, 300, Phase Linear 400

Monitor Speakers: Sentry III Echo, Reverb, and Delay Systems: Echo-Plate, Slap Echo (Amney) Delta Lab D.D line

Other Outboard Equipment: dbx 904 noise gates, UREI

176LN comp/limiters Microphones: AKG; Shure, EV, Sennheiser, Neumann

Instruments Available: Baby grand plano, Hammond Porta-B with Leslie speaker, drums, Peavey bass Amp, Fender Superreverb (pre-CBS)

Rates: \$50/hr

•••TIMBRE RECORDING STUDIO

11628 South Pulaski Road, Alsip, Illinois 60658 (312) 371-8424

Owner: Jerry Muzika

Studio Manager: Jerry Muzika

Engineers: Jerry Muzika, Scott Rowley Dimensions of Studios: 30' x 18' drum room: 12' x 9'

Dimensions of Control Rooms: 20' x 15' Tape Recorders: Tascam 85-16 w/dbx & auto locator 16 track. Tascam 35-2 w/dbx 1/2 track; TEAC X-10 1/4 track, TEAC CX-270 accotto

Mixing Consoles: Tascam 15 highly modified 20 in x 8 out. Tascam Aux 1 effects mix

Monitor Amplifiers: BGW, SAE, Crown, Nikko

Monitor Speakers: JBL 4313 BWX, JBL 4311, Scott Pro 100,

Auratone Echo, Reverb, and Delay Systems: Master-Room XL-305, Delta Lab Acousticomputer, Fairchild 659, Fairchild 658 A, Ibanez AD-230, Chamber

Other Outboard Equipment: dbx Noise Reduction (all tape machines), Burwen DNF 1201 noise filter, MXR Dual Limiters, MXR Auto Phase, Auto Flanger Pro Rack, Omni Craft GT 4 noise gates, SAE EQ, Ashley Parametric Equalizer, Audio Control Equalizer, Audio Control Real Time Spectrum Analyzer, Aphex Exciter, UREI Sub-Sonic Processor, Hycor Program EQ, Valley People-dyna-mite expandor, limiter noise gate De-Esser

Microphones: Neumann U 87's, AKG C451 E's, D224 E's, D100E's, Sennheiser MD 421's, Shure SM53's, SM54, SM7, SM57's, SM50's, SM58's, SM61, Electro-Voice 645's, RE 20, Re-11, Audio-technica AT 802, Countryman EM 101, Turner, Barcus Berry piano Transducer system

Instruments Available: Adam Shaft Grand, Start concert upright, Slingerland all wood drums, Rickenbacker amp, Ovation amp, full rental service upon request Rates: \$38 00/hr

•••ZEM RECORDING STUDIO 3709 South 60th Court, Cicero, Illinois 60650

(312) 656-1544

Owner: Ed and Sue Zajda

Studio Manager: Sue Zajda

Engineers: Ed Zajda, Jennifer Zajda

Dimensions of Studios: 30' x 24' Dimensions of Control Rooms: 16' x 10'

Tape Recorders: Tascam 85 16 16 track, Ampex ATR 102 2 track, Otari 5050B 2 track, Nakamichi 582 cassette deck

Mixing Consoles: Tangent 3216 24 in x 16 out Monitor Amplifiers: Yamaha P-2200 (2), Crown D75

Monitor Speakers: JBL 4343's, 4313's, Dahlquist DQM-9's;

Yamaha NS-10M's Aurator Echo, Reverb, and Delay Systems: Lexicon 224 Digital Reverb

system, Eventide Harmonizer H949; Lexicon Prime Time (2), Delta Lab DL 2 Acousticompute

Other Outboard Equipment: 18 channels dbx type 1, 2 channels dbx type II, Dolby A system 361, High Com II Noise Reduction; UREI 1176 (2) comp., dbx 160 (2) comp. Gain Brain (4), Kepex (4), dbx 900 rack, Orban-Parametric, EXR Exciter (2), Aphex Exciter

Microphones: Neumann, AKG, Sennheiser, Shure, Electro Voice, Sony

Instruments Available: Yamaha Electric concert grand, Ludwig drums, ARP 2600

Bates: Upon request

Extras: No "extra charge" for all available equipment or musical Instruments

Direction: We are a fully equipped studio using a 1" tape format. Our main goal is to get the best sound on tape at the lowest cost to the client. Music production and assistance are also available. We encourage our clients to experiment with new techniques and equipment as it becomes available and/or as it may enhance the musicality of their production

Tape Recorders: Tascam 90-16 16 track, Tascam 25-2 2 track;



•••ZENITH/db STUDIOS 676 N LaSalle, Chicago, Illinois 60610 (312) 944-3600 Owner Cker & Coken, Inc Studio Manager: Ric Coken Engineers: Michael Moats, Joel Sears, Mike Minuskin, Pete Fale, Michelle Landes, Richard A. Coken. Ed Golya. Curt Frisk Jim Moore Hans Wurman

Dimensions of Studios: 9 Studios from 700 sq. ft. to 200 sq.

Dimensions of Control Rooms: 5 Control rooms approx 500 sor ft each Tape Recorders: MCI 16 track, Scully 8 track, Ampex 4 & 2

tra -k Mixing Consoles: Custom & Studio Designs 24 in x 16 out

Monitor Speakers: Electro-Voice (Sentry III), Auratone Sound

Echo, Reverb, and Delay Systems: UREL Orban, Burwen Allison Audio & Design Pulter Other Outboard Equipment: Separate iso Booth, Drum Booth,

Malta Level Main Microphones: Neumann, PML, Sony AKG Sennheiser, EV

Shure Instruments Available: Steinway Piano, Hammond B3 organ,

Pearl drum ku Rates: Film \$135-\$40 hr , Music \$100-\$40/hr ; Production \$65 \$35 hr



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••••A SOUARE STUDIOS 3691 Morgan Road, Ann Arbor, Michigan 48104 (313) 434-2141

Owner: Robert June Jr., Al and Dee Hurschman Studio Manager: Al Hurschman

Engineers: Al Hurschman-Chief Engineer, Dee Hurschman Dimensions of Studios: 60' x 40' Main Room, Isolation rooms 10' x 20' & 12' x 18'

Tape Recorders: MCI JH 24 24 & 16 track, MCI JH-110A 2 track, MCI JH-110B 2 track, Scully 280B 2 track

Mixing Consoles: Neotek Senes III 28 in x 24 out Monitor Amplifiers: Crown DC300A, SAE P-50, Crown D-60, McIntosh 275

Monitor Speakers: IBL 4333A, 4311A, Auratone 5C Echo, Reverb, and Delay Systems: EMT 140, Eventde Har-monizer, Marshall Time Modulator, Delta Lab DL-2, Sound Workshop 262, Time Tech, Acoustic Chambers (2) Other Outboard Equipment: dbx 165, UREI 1176 LN, Tablerer 143A 090 difference on outputs (4) because D Obre

Teletronics LA2A, 208 dbx noise reduction (all channels) Orban Limiter, Omni Craft Gates, Scamp Rack, EXR

Microphones: Neumann U89, U87, KM84, KM56, FV RE-20, RE-15, CS-15, RE-55, Shure SM58, SM57, SM81, SM54, AKG 414 EB, 452, 109, 190

Instruments Available: Steinway grand piano, Thiery Upright grand plano. Hammond B-3 organ with Leslie, extensive drum kit, several amplifiers.

Rates: Base rate \$100/hr, packages available

Extras: Guest houses, game room, producers lounge, swimming pool, Jacuzzi Whirlpool and sauna all located on a five acre music complex

••••AFTER DARK RECORDING STUDIO INC. also REMOTE RECORDING

5510 Pearl Bd., (lower level) Cleveland, Ohio 44129 (216) 845-5455

Owner: Kirk Yano

Studio Manager: Mary lo Difino. Engineers: Kirk Yano George Sipl

Dimensions of Studios: A: 24' x 16'; B 14' x 16'-Live room Dimensions of Control Rooms: 19' x 15'. Tape Recorders: MCI 114-24 24 track, MCI 110-2 2 track,

Otari 5050B-2 2 track, Sony 854 4 4 track; Technics M 65 2 track

Mixing Consoles: MCI 424 (modified by Randy Blevins, Nashville, Tenn) 24 in x 24 out (5534 chips & light meters) Monitor Amplifiers: BGW 750, Crown D-60, Marantz 140 Monitor Speakers: JBL 4343, 4311, Auratone cubes, 6' x 9' car SDKS

Echo, Reverb, and Delay Systems: EMT 240 Gold Foil, Eventide 910 Harmonizer, Lexicon Prime Time, Cooper Time Cube, Delta Lab Digital Delay, Tape Echo

Other Outboard Equipment: Allison, Kepex, Gain Brains, UREI LA-4 limiters, Pultec Tube EQ, Trident Parametric EQ, UREI 10-band EQ, UA 17B Tube limiter, MCI Mono tube limiter, EXR Exciter, Vocoder

Microphones: Neumann U-87, U-67 (tubes); Sennheiser 441, 421, Sony 377P, 22P, Shure SM-57-58-59-81; EV-RE-15-666; AKG 414, 452, 451, PZM; RCA Ribbon. Instruments Available: Yamaha grand piano, Fender Rhodes, Ludwig drums, Prophet V, Roland, VOX guitar amps, ARP 2600, PRO soloist, Stringman, Marshall Super Lead, 100 4' x 12" lab Rates: \$75/hr-24Trk: \$30/hr-2Trk

••••AMBIENCE RECORDING INC. also REMOTE RECORDING 27920 Orchard Lake Road, Farmington Hills, Michigan 48018 (313) 851-9766 Owner: Jerome A Silecchia "President Studio Manager: Gerard Smerek

••••A & B RECORDING STUDIOS also REMOTE RECORDING 2700 Ford St., Ames, Iowa 50010 (515) 232-2991 Owner: Steve Monroe Studio Manager: David Kingland

••••ARTIST WORKSHOP RECORDING 2228 E. Maple, Kankakee, Illinois 60901 (815) 933-7090 Owner: George M Marakas Studio Manager: George M Marakas

••••ASI STUDIOS 711 W. Broadway, Minneapolis, Minnesota 55411 (612) 521-7631 Owner: Audiotek Systems, Inc Studio Manager: Sandi Milani

••••AUDIO RECORDING STUDIOS, INC. also REMOTE RECORDING 601 Rockwell Ave., Cleveland, Ohio 44114 (216) 771-5112 Owner: Audio Recording Studios, Inc. (Corp.)

Studio Manager: Mary Anne Rettger

••••AUDIO TRAK INC also REMOTE RECORDING 1025 West State St., Rockford, Illinois 61102 (815) 968-2902 Owner: Stan Valiulis Studio Manager: Stan Valuulus Engineers: Joe Guarino, Jim Guarino, Stan Valiulis. Dimensions of Studios: 33' x 39'-five isolation rooms Dimensions of Control Rooms: 18' x 21 Tape Recorders: MCJ JH-114 24 track; MCI JH-110A 2 track; Scully 280B 2 track, Revox A77 2 track Mixing Consoles: MCI JH-536C 28 in x 24 out

Monitor Amplifiers: BGW 750, 250, Crown DC300's. Monitor Speakers: UREI 813's, JBL 4311, Auratone 5C's Echo, Reverb, and Delay Systems: Echo Plate, Live Chamber, Eventide H-949, Delta Lab DL 4, Marshall Time Modulator, Pandora Time Line Other Outboard Equipment: 24 track dbx noise reduction, UREI LA-4's, 1176LN Peak Limiters, ADR Expander Gates, S-300's, S-36's, Dual Gates, Kepex Gates, Orban Silbilance Controlers

Microphones: AKG 414's, 452's, D12E's, Neumann U87's, Electro Voice Shure etc

Instruments Available: Steinway B, Oberheim Polyphonic, Pearl drums, various amps and keyboards

Rates: \$75 00 24 track, \$35 00 2 track, set up time free Extras: Comfortable working atmosphere, lounge game room, package prices available including rooms, food, and transportation

Direction: We are committed to achieving the highest quality recordings for all our people no matter what the size of the project. We also give pre-production consultation to musicians unfamiliair with studio work. A full jungle production company is also based out of our studio

••••MARTY BLEIFELD PRODUCTIONS, INC. 1650 Cass Street, Fort Wayne, Indiana 46808 (219) 424-4014

Owner: Marty Bleifeld, Lynda Bleifeld, James Markiton Studio Manager: Lynda Bleifeld

Engineers: Marty Bleifeld, Bret Angel Dimensions of Studios: 25' x 35', Isolation Booth 12' x 9'. Dimensions of Control Rooms: 20' x 20'

Tape Recorders: MCI 24 track, 4 track, Studer B-67 2 track Mixing Consoles: Sound Workshop 1600 28 in x 24 out Monitor Amplifiers: BGW 600, 100, Crown D-150A, D-60 Monitor Speakers: UREI Time Aligned, Auratones-Control Room: Yamaha NS 1,000's-Studio.

Other Outboard Equipment: Echoplate, Lexicon Prime Time,

MXR Digital Delay, Fisher Space Expander, Orban Parametric EQ Model 622B, UREI LA 4 limiters.

Microphones: Neumann, AKG, Sennheiser, Sony, EV Instruments Available: Yamaha C3D grand, complete instrument rental available





Chicago Recording Company Chicago, Illinois

••••CHICAGO RECORDING COMPANY 528 North Michigan Avenue, Chicago, Illinois 60611 (312) 822-9333

Owner: Alan S Kubicka.

Studio Manager: Joe Sturm, Susan Divita

Engineers: Chris Sabold, Hank Neuberger, Phil Bonnano, Tommy Hanson, Dennis Anderson, Mike King, Gary Hedden Dimensions of Studios: A: 27' x 45'; B: 23' x 35', D: 35' x 67, Studio C-1, C-2, E & H designed for voice-over & production

Dimensions of Control Rooms: A 19' x 20', B 22' x 22', D: 26' x 26'

Tape Recorders: MCI 24, 8, 4, 2 track and mono

Mixing Consoles: Cadac Series E 36 in x 32 out, MCI JH-532C 36 in x 32 out, Flickinger Model D 32 in x 24 out

Monitor Amplifiers: Crown

Monitor Speakers: Cadac, UREI 813's, Westlake/Eastlake Echo, Reverb, and Delay Systems: EMT-140's. 240's; Echoplate; AKG BX-20; Master-Room; Eventide Harmonizers & Digital Delay, Lexicon Prime Time & digital delay, Marshall Time Modulators

Other Outboard Equipment: All ancillary equipment available, we are a true world class studio (Automation, SMPTE Time Code, Video Sweetening, etc.)

Microphones: Neumann, AKG, Shoepes, Sennheiser, Sony, Shure, Electro-Voice, RCA, Altec plus many classic tube microphones

Instruments Available: Bosendorfer grand plano, Steinway grand piano, Fender Rhodes, Clavinet, Harpsicord, Hammond organs, Sonar & Rogers drums, Minimoog, Polymoog, ARP 2600, ARP Omni, ARP String

Rates: Studio A & D: \$185/hr; Studio B: \$165/hr, Production Studios: \$55-\$100/hr; rates available for block bookings Extras: 46-track recording, automation, SMPTE Time Code,



FOR RATES AND BOOKING INFORMATION, PHONE 312/822-9333 ALAN KUBICKA, PRESIDENT

World Radio History

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video sweetening, the best working environment in the city Direction: Since we opened our doors in 1975 we have been Chicago's true world class facility. Our staff is considered the best in the city and we service our clients to the very hilt. Recent in me city and we service our clients to the very hit. Herent record clients include Ramsey Lewis. Jerry Butler. Todd Run doren. Marshall Tucker Band, The Ohio Players, Styx, Cameo, Steve Goodman Dee Dee Sharp and Gambler Commerical jungles to our credit include hundreds of spots for McDonalds Coke United Air Lines Wrigleys Gum Schlitz, Sunkist Kelloggs and Sears. If it can be done CBC is known as the studio that can do it

....CLOUD BORN PRODUCTIONS, INC. 18000 Mack Ave., Grosse Pointe, Michigan 48224 (313) 882-0566 Owner: Gary Praeq

Studio Manager: Mary Ann Mathello

*******CREATION AUDIO RECORDING, INC. 5002 West Old Shakopee Road, Bloomington, Minnesota 55437 (612) 881-6020 Owner: Terry Grant Steve Wiese

Studio Manager: Terry Grant

****CREATIVE AUDIO

ALSO REMOTE RECORDING 705 Western Ave., Urbana, Illinois 61801 (217) 367-3530 Owner: Michael Day, Michael Reed, Dana Walden, Leon Reeder Studio Manager: Michael Reed

••••CURTOM STUDIOS

also REMOTE RECORDING 5915 N. Lincoln, Chicago, Illinois 60659 (312) 769-1439 Owner: Curtom Studio Studio Manager: Roger Anfinsen

••••CYBERTEKNICS

also REMOTE RECORDING 1953 East Third Street, Dayton, Ohio 45403 (513) 258-2463 Owner: Philip Mehaffey

••••5TH FLOOR RECORDING STUDIOS 517 West Third Street, Cincinnati, Ohio 45202 (513) 651-1871

Owner: Richard Goldman Studio Manager: Richard Goldman Engineers: Staff Richard Goldman Greg McNeily, freelance engineers available & welcome Dimensions of Studios: 20' x 25'

Dimensions of Control Rooms: 20' x 15' Tape Recorders: MCI JH-114 24 track, Studer B67 2 track

Ampex 44B 2 track, Scully 280 2 track, Sansui SC1110 cassettes track

Mixing Consoles: Sphere Eclipse A 28 in x 24 out Monitor Amplifiers: BGW 500, BGW 250 Monitor Speakers: UREI 813 Time Aligned JBL 4311.

Auratones

Echo, Reverb, and Delay Systems: Lexicon 224 Digital Reverb. Echo Plate, Lexicon Prime Time Digital Delay, Marshall Time Modulator Cooper Time Cube

Other Outboard Equipment: Orban 622B Parametric EQ, UREI 1176 LN Limiters, UREI LA3A limiters, dbx 160 limiters, dbx 160 De-Esser dbx noise reduction 26 channel, Auditronics EQ

Microphones: Neumann tube U47's U87's, KM 84's, KM 86's, Shure 57's & 58's, EV RE-20, RE-16 666, RCA 77's Beyer M500 Schoeps

Instruments Available: Steinway 7' grand Fender Rhodes Rogers drums Synthesizers available by appointment Rates: Available upon request

••••GERIM RECORDING, INC. 2120 S. Michigan, Chicago, Illinois 60616 (312) 326-5450 Owner: Gerald Sims & Kathleen Newman

Studio Manager: Kathleen Newman

••••HEDDEN WEST RECORDERS. 1200 Remington Road, Schaumburg, Illinois 60195

(312) 885-1330/ (312) 885-9378 Studio Manager: Michael Freeman

Engineers: Iain Burgess, Mal Davis, Kevin Vogts, Joe Ott, John Nevin, Bill McQueen, Corey DeMatteis Dimensions of Studios: A 1100 sq Ft, B 800 Sq Ft Dimensions of Control Rooms: A 650 sq Ft, B 400 Sq Ft Tape Recorders: MCI JH 16 24 track w/Autolocator Mk II,

Studer B67, 2 track, Revox A77's, 14 track, 1/2 track, AIWA 6900 cassette deck Mixing Consoles: Sphere 'Eclipse' 32 in x 24 out, Sphere custom



24 in x 16 out w 24 trk monitoring Monitor Amplifiers: Yamaha P220 Monitor Speakers: UREI 813 JBL 4311 Auratone

Echo, Reverb, and Delay Systems: EMT Gold Foil Lexicon 102 EMT 140

Other Outboard Equipment: Eventide Harmonizer, Flange dbx 160 comp limites Omni Crait & Kepex noise gates, assorted equipment available on a rental basis

Microphones: Neumann U47 U87, KM84, KM86 KM88, Senn heiser 441 421, Beyer 260, 160, AKG 414 451, 452, D202 D224 EV RE 15 RE 20 DS-35, Shure SM81 SM33 PZM, Altec C38

Instruments Available: Yamaha 7' grand piano, Steinway B 7' grand plano. Fender Bhodes, Hammond CV w Leslie, Ludwig drums Yamaha drums assorted amplifiers

Rates: Studio A \$50 hr 10am-12mid \$40 hr 12 mid 10am Studio B \$40 hr subject to change without prior police

••••K & R RECORDING STUDIO also REMOTE RECORDING 29111 Greenfield, Southfield, Michigan 48076 (313) 574-2080 & 557-8276 Owner: Ken Glaza

Studio Manager: Pat Extras: Our new studio C at a location to be announced on com

pletion will be on the order of a sound laboratory whose comfor table & proper design will lend itself to the creating of music. No others have combined 16 & 24 track pinch rollerless machines post production abilities wigualitied writers muscians & pro-ducers (our present specifity) non EQ'ed monitors floppy disk automation, non compromising mix board, good cross selection of mikes including ribbons, dynamics condensers old & new In struments cassette duplication pressing service successful marketing & packaging services plus 14 years of audio technical knowhow to always produce high quality & creative sound without a doubt. Based on samples of our LP, commerical & video sound work cut at Studio B, you can get an idea of what is to come Ask any of our clients about our uniqueness

••••KBK/EARTH CITY SOUND STUDIOS, INC. also REMOTE RECORDING 4288 Rider Trail, Earth City, Missouri 63045 (314) 291-4840

Owner: Kent & Marilyn Kesterson Studio Manager: Manlyn Kesterson

****LANSING SOUND STUDIOS INC. also REMOTE RECORDING 2719 Mt. Hope Rd., Okemos, Michigan 48864 (517) 351-6444 Owner: Bob Baldon Studio Manager: Lou Firpin

••••McCOY RECORDING COMPANY also REMOTE RECORDING 7018 West Warren Avenue, Detroit, Michigan 48210 (313) 361-2444 Owner: Edward L. McCov Studio Manager: Cheryllyn McCoy

••••PARAGON RECORDING STUDIOS, INC. also REMOTE RECORDING

9 East Huron St., Chicago, Illinois 60611 (312) 266-0075 Owner: Martin J Feldman Studio Manager: Nancy Gardner

••••PEPPERMINT PRODUCTIONS CORP. also REMOTE RECORDING

803 East Indianola Ave., Youngstown, Ohio 44502 (216) 783-2222 Owner: Gary L Rhamy Studio Manager: Larry Repasky Engineers: Gary Rhamy, Larry Repasky Dimensions of Studios: A 40 x 30, B 20 x 15 Dimensions of Control Rooms: A 30 x 10, B 20 x 7 Tape Recorders: Scully 284.8 12, 16, 24 track, Ampex 440A 2, 4 track, Ampex 351 1 track Mixing Consoles: Custom containing Altec Automated Processors Fairchild components 24 in x 44 out, Custom Universal Audio components 12 in x 4 out

Monitor Amplifiers: Crown McIntosh Monitor Speakers: JBL 4320's and custom. Alter Voice of the

Echo, Reverb, and Delay Systems: Loft 440 DDL, Eventide In stant Flanger: Acoustic Echo Chamber: Sound Workshop: Tape

Other Outboard Equipment: 16 MM film sound variable speed

n all machines interlock between studio a & b Microphones: Neumann U87 U67 KM86 KM84 Telefunken Shure Sony EV RCA etc

Instruments Available: Steinway piano Hammond C 3 organ string ensemble, tympanies misc, percussion instruments

Rates: 24 trk \$95 hr -16 trk \$65 hr, -8 trk \$55 hr -4 trk \$45 hr

••••PIERCE ARROW RECORDING

1911 Ridge Ave., Evanston, Illinois 60201 (312) 328-8950

Owner: Sam Lynn & Frank Seater

Studio Manager: Frank Seater Engineers: Gus Mossler Paul Klingberg

Dimensions of Studios: 2400 sq ft

Dimensions of Control Rooms: 23' x 23

Tape Recorders: Ampex 1200 24 track Ampex ATR 102 2. rack Ampex ATR 104 4 track

Mixing Consoles: Neve w Necam 8078 computerized 40 in x 48

Monitor Amplifiers: Crown 300 Monitor Speakers: Hidley TM 11 JBL 4311's JBL 4333's Echo, Reverb, and Delay Systems: AKG BX-20 Echoplate Lexicon 224

Other Outboard Equipment: Allison Gain Brains Kepex's dbx 160 limiters Eventide Harmonizer Eventide Digital Delay units Eventide Flanger, UREI Parametric Equalizer, I.A.3A limiter Microphones: Neumann AKG's Beyer Electro-Voice PZM Sennheiser Shure & Sonvs Instruments Available: Piano & Hammond B 3 organ Rates: Call for rate

••••PINEBROOK RECORDING STUDIOS

also REMOTE RECORDING P.O. Box #146; State Road #9 South, Alexandria, Indiana 46001 (317) 724-7721 Owner: Bill Gaither, Dan Posthuma, Bob MacKenzie

Studio Manager: Bandy Hammel

••••PRISM RECORDING STUDIOS also REMOTE RECORDING

16036 Union Ave., Harvey, Illinois 60426 (312) 339-8015 Booking & Info. Studio: (312) 339-8145 Studio Manager: Steve Mac McCarthy Engineers: Rob Vukelich Steve Mac McCarthy Dimensiona of Studios: 40 x 16 - 15 x 10 Dimensions of Control Rooms: 15 - x 20 Tape Recorders: Otari MTR 90 24 track /2 Otari MX 5050B 2

track

Mixing Consoles: Neotek Series III 28 in x 24 out Monitor Amplifiers: (2) Crown PSA 2 (1) Crown DC 300A (2) rown D-75 AB Systems 105

Monitor Speakers. (4) Electro Voice Sentry III. (2) E.V. Sentry 00 (2) Auraton

Echo, Reverb, and Delay Systems. Lexicon Prime Time. Even tide H949. Ursa Major Space Station: MXR Digital Delay. Pitch Transposer and Flanger Doubler. Delta Lab. DL4 and DL2. Master Room XL305 Echo Plate

Other Outboard Equipment: Omnicraft Noise Gates UREI and dbx compressors Orban Equalization Orban Stereo synthesizer Scamp dbx 900 Series rack EXR-EX III

Microphones: Neumann Electro Voire Sennheiser Crown PZM AKG Shure, Sony, PMI. Instruments Available: Hammond C 3 Rhodes 88 Kawai 6

piano. ARP Strings: Korg RM55: Ludwig 9 piece kit w cymbals Slingerland 6 piece kit wicymbals complete percussion. Lab Series ampsi complete studio instrument rental service (all brands)

Rates: \$24 trk-\$70 hr. 2 trk-\$40 hr

••••QCA RECORDING STUDIOS 2832 Spring Grove Ave., Cincinnati, Ohio 45225 (513) 681-8400 Owner: Edward R Bosken Studio Manager: Jim Bosken

******THE RECORDING CONNECTION, INC.** also REMOTE RECORDING 23330 Commerce Park Rd., Beachwood, Ohio 44122 (216) 464-4141 Owner: Arme Rosenberg

Engineers: Paul Schwartz Chief Lydia Terrion Asst Eng Dale Peters, Ken Tomsick, Jim Carroccio

Tape Recorders: Studio A MCI w SMPTE JH 24 transformerless 48 track, MCI JH-110B 2, 4 track Studio B MCI JH-24 transformeriess 24 track, MCI JH-110B 2, mono A&B TEAC 3C cassette, Remote MCI w/SMPTE 48 track

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Mixing Consoles: A MCI w/parametric EQ option JH-600 automated 36 in x 36 out, B MCI JH-600 automated 28 in x 28 out, Remote MCI JH 600 automated Monitor Amplifiers: BGW 750, Crown DC 300 (2) Crown

C150'

Monitor Speakers: UREI 813 Time Aligned monitors, JBL 4313, Auratones (Both A & B)

Echo, Reverb, and Delay Systems: Echoplate & Lexicon 224 (Both A & B)

Other Outboard Equipment: UREI 1176 hmiters, UREI LA 4 limiters, Scamp racks, Lexicon Prime Time, Marshall Time modulators, Eventide H949, Harmonizer, (Both A & B) Duplicating (3) Otari MX5050B, (2) Nakamichi 60802 cassettes, Telex Cartridge recorder

Microphones: (4) EV RE 20's, (2) EV RE-15's, (2) Shure SM7's, (3) Shure SM 57's, (4) Shure SM81's, (5) Beyer M88's, (6) Beyer M160's, (2) Neumann U 47's, (6) Neumann U 86's, (6) Neumann 1875, (6) Neumann KM-84's, (7) AKG C 414's, (2) AKG C452's, (4) Sennheiser MP421, Sony ECM 50's Instruments Available: A Yamaha 9' grand B Yamaha 7' z'

grand, 2 Hammond organs, Thunderoad 73, Hohner Clavinet, Leshe speaker, Ludwig drum set, guitar & bass amps Rates: Call for rates

••SHADE TREE

Playboy Resort, Hwy. 50 Box 168, Lake Geneva, Wisconsin 53147 (414) 248-2400 Owner: Recreational Recording, Inc.

Studio Manager: Paul Davis

····SOLID SOUND, INC. also REMOTE RECORDING 1289 N. Dixboro Rd., Ann Arbor, Michigan 48105 (313) 662-0667 Owner: Robert Martens Studio Manager: Robert Martens Engineers: Will Spencer, CE, Rob Martens

Dimensions of Studios: 28' x 23' plus isolation room of 12' x 12', 12' 5' ceilings trapped down to 10' Dimensions of Control Rooms: 17' x 17'

Tape Recorders: MCI JH 114 24 track, MCI JH 110B 2 track, Otari 5050B 2 track, Nakamichi (2) 582 cassette Mixing Consoles: MCI JH-636 32 in x 32 out

Monitor Amplifiers: Crown, Hafler

Monitor Speakers: UREI 813, JBL 4311, 4313, Rogers LS3 5A Auratones

Echo, Reverb, and Delay Systems: Lexicon 224, Echoplate II Lexicon Prime Time, Delta Labs DL 1, Roland Chorus Echo Other Outboard Equipment: dbx 900 rack, UREI LA-3A's, dbx 160's, 165's, Eventide Harmonizer and Instant Flanger EXR EX nter, UREI 546, Ashly Limiters, 32 channels dbx, Crown RTA-2 Microphones: Neumann U 67, U-47, U 87, AKG 414, 451 (w/omni & cardioid), D 12, D 1000, Sennheiser 441, 421, Shure SM57, SM58, SM-81, Crown PZM, Altec 526 (tube), EV RE 15, RE 20

Instrumente Available: Steinway 9' concert grand, Baldwin 9' concert grand, Rhodes 88, ARP 2600 Wurlitzer Elect piano, Lud wig drums, Martin 6 & 12 string guitars, various Fender and Yamaha amplifiers (Also ARP Omni)

Rates: \$85/hr single hour. Several discount packages available Extra charge for SMPTE/Video lockup

Extras: Private quiet country location very near major transporta tion options. Both budget and luxury accommodations available Studio design by George Augspurger

Direction: We are a musician owned and operated studio and we make client comfort our goal. We maintain a production company and a large pool of talented musicians and arrangers. As a sideline we custom load cassettes and wholesale mastertape. Solid Sound firmly believes in the music coming out of Southeastern Michigan and we are presently in the planning stages for a new multi studio complex to be built in this area

····SOUND 80 INC.

also REMOTE RECORDING 2709 East 25th St., Minneapolis, Minnesota 55406 (612) 721-6341 Owner: Herb Pilhofer Studio Manager: Gary Erickson

••••SOUND PATTERNS DXM also REMOTE RECORDING

38180 Grand River, Farmington Hills, Michigan 48018 (313) 477-6444 Owner: Dan D. Dallas Studio Manager: Pelly Dallas

Engineers: Dan Dallas, Jeff Miller Dimensions of Studios: Studio "A" 31' x 42' asymetrical, Studio "B" 19' x 36'

Dimensions of Control Rooms: Studio A" 15' x 26'

asymetrical, Studio "B" 15' x 19' Tape Recorders: Autotec Custom made 16/24 track (2"), Ampex A644 B track, Ampex 351 2 2 track, Scully 280 2 track, ascam/TEAC/Revox/ and TEAC 1/2" and 1/4" formats Mixing Consoles: Custom built w/parametric equalizers (Studio

A") 32 in x 24 out, Audio Designs (Studio "B") Monitor Amplifiers: McIntosh (3)

Monitor Speakers: Speaker Lab (custom), Cizek, DXM Tone Cubes, Altec 604E, Altec A 700, AR3 A



Echo, Reverb, and Delay Systems: EMT 140S Loft, Farichild Orban, tape

Other Outboard Equipment: Eventide Phaser, Flanger, Loft Delta Lab, EXR Exciters, UREI 1176LN Limiters, Teletronix LA3A, UREI Filter, dbx Limiter, Outboard Parametrics, Orban De Essei

Microphones: AKG 414, Neumann KM86, PZM (8), AKG 451, EV RE 20, Shure SM81, Sennheiser, Beyer, RCA, Altec, and

Instruments Available: Poly Moog, Minimoog, Kanabe grand piano, Hohner D6 Clarinet, Degaan marimbas, Slingerland drum set, Hammond B3 w/Leslie and tone cabinet, amps. Ampeg B15. Fender, Music Man, and Peavey



Sound Patterns DXM Farmington Hills, Michigan

Rates: \$30-\$140 per hour

Extras: Motel accommodations across the street, many restaurants, 1000 ft sauna, pool, bowling, bars in immediate vicinity 15 minutes to Mt Brighton Located 25 minutes from Metro Airport

Direction: Sound Patterns is the leading music studio in the metro Detroit area and has many satisfied customers over the past 12. years since its inception. It is one of the first studios in the country totally designed asymetrically. Headed by Danny Dallas, Sound Pats records rock, jazz, country, gospel, commercials, jingles, radio and TV Program Services, training films, pulsing disk cut ting, tape cassette duplication etc.

••••SOUND RECORDERS, INC also REMOTE RECORDING 3947 State Line, Kansas City, Missouri 64111

(816) 931-8642

Owner: Don Sears attiliated with Sound Recorders Omaha Nebraska

Studio Manager: Jim Wheeler

Engineers: Mark Weddle, Chris Bauer Jeff Drummond Dimensions of Studios: Studio A 40' x 40', B 16' x 20', C 8' x 9', Video Soundstage w/hard CYC' 44' x 44', Video Insert Stage 12 x 16

Dimensions of Control Rooms: A 18' x 21', B 15' x 20', C 10' x 12', Video Edit A 15' x 15', Video Edit B 15' x 15' Tape Recorders: MCI JH 114 24 track, Otar 1 inch 8 track, Scully 2808 4, 2 & 1 track, Sony PCM Digital System PCM16008 with Editor 2 track, RCA TH200 1 inch C Format Video Recorder

Mixing Consoles: MCI JH 628 automated 28 in x 28 out, Auditronics 501 26 in x 16 out Tascam 5.8 in x 4 out, Grass Valley Group Video Switchers

Monitor Amplifiers: Phase Linear 700 & 400. Crown DC 300A, BGW 600

Monitor Speakers: IBL 4350, 4330, 4313, 4311, 4301 & Auratones

Echo, Reverb, and Delay Systems: Eventide Harmonizer Model H949 w/De glitch modification, Harmonizer H910, Moog 12 Stage Phaser, MXR Flanger, UREI 1176 limiters Ecoplate Other Outboard Equipment: EECO three port SMPTE Time Code synchronizer for Interlocking 24 track to Video—2, 1 or ¼ inch formats, Digital Recording with Sony PCM system Microphones: Crown PZM, Telefunken M250, Neumann U64,



Sound Recorders, Inc. Kansas City, Missouri

U67, U87, & KM 84, AKG C 12, C 60, 414, & 452, Sennheiser 421 BCA 44 & 77

Instruments Available: Steinway & Kimball grand planos, Tama trums, access to synthesizers, harpsichord & large Pipe Organ Rates: \$125/hr 24 track Audio, \$175/hr Digital Mixing, \$180/hr Video Interlock w/24 track-SMPTE. Block rates available upon request

•••SOUNDSMITH RECORDERS, INC 5210 E. 65th St., Indianapolis, Indiana 46220

(317) 842-4905

Owner: Mark Copenhaver and Mark Dodd

Studio Manager: Mike Graham Engineers: Mark Copenhaver, Mark Dodd, Mike Graham, Al

Thompson Dimensions of Studios: 35' x 20'

Dimensions of Control Rooms: 22' x 18' Tape Recorders: 3M 59-24 track, Scully 280 B stereo, Otari MX5050B Stereo, Scully 280 B mono

Mixing Consoles: Neotek Series III 28 in x 24 out Monitor Amplifiers: Crown DC 300A Monitor Speakers: EV Sentry III, IBL 4331, MDM 4, Auratone

Echo, Reverb, and Delay Systems: EMT 140S, Master Room XI. 305, Lexicon Prime Time 9

Other Outboard Equipment: UREL1176LN limiters(3) Eventide Harmonizer, Eventide Flanger, Audio Design & Recording (Scamp) Pan effects module, Parametric EQ (2) Expander/Gate (6), De Esser module (2), dbx 162 Stereo limiter, dbx 160 limiter Microphones: Neumann U 87, KM84, U 64, AKG D 12, 451E C 414, Sennheiser MD 421, Shure SM 57, SM 53, Beyer M 500, M 400, M 69, Sony ECM 50, RCA 77DX

Instruments Available: Steinway grand piano, Fender Bhodes, Pearl drum set, Hammond B-3 organ, Hohner (16 Clavinet linimoog synthesizer

Rates: 24 track-\$100/hr, 16 track-\$75/hr

••••STUDIO A

5629 Beech Daly, Dearborn Hts., Michigan 48127 (313) 561-7489

Owner: Studio A Recording Inc

Studio Manager: Marilyn 1 Morgeson Engineers: Eric Morgeson

Dimensions of Studios: 20' x 22'

Dimensions of Control Rooms: 9' x 22'

Tape Recorders: MCI JH 114 24 track, Tascam 85 16 16 track,

Tascam 35.2.2 track, TEAC 3300 SX 2 track, Onkyo 630 cassette

Mixing Consoles: MCI JH 528LN 28 in x 28 out

Monitor Amplifiers: Phase Linear 200 Nikko 150 Monitor Speakers: JBL 4311 WX, Auratone 5 C

Echo, Reverb, and Delay Systems: Lexicon Prime Time Orban 111 B, Tape recorder Delay

Other Outboard Equipment: Stereo Chorus, Flangers, Phasers Fraphic EO, Noise Gates, compressors, Limiters, dbx, N/B Microphones: AKG 414 EB, EV BE 20, Sennheiser 421, Sony

ECM 9 P, Sony ECM 22 P, Shure SM 57, SM 58, EV DO 54, EV DS 35

Instruments Available: 5'9" grand piano. Bhodes 73. Clavinet D.6, ARP Odyssey, ARP Strings, Fender Deluxe guitar amp Acoustic 150, Peavey standard 6 piece Ludwig drams Rates: \$75/hr (add \$10 for automated mixing) 24 trk, \$65 hr 16 trk. \$45/hr 2 trk

••••SUMA RECORDING STUDIO

5706 Vrooman Road, Cleveland, Ohio 44077 (216) 951-3955 Owner: Kenneth Hamann Studio Manager: Michael Bishop

Engineers: Kenneth Hamann, Michael Bishop, Paul Hamann Dimensions of Studios: 40' x 28' Dimensions of Control Booms: 18' x 25'

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Tape Recorders: Ampex MM-1200 24 track, Ampex MM-1000 16 track Studio J 37 4/8 track, Ampex ATR 102.2 track, Ampex AG-440 2 track

Mixing Consoles: Mid-America Electronics custom 48 in x 24

Monitor Amplifiers: JBL McIntosh, BGW Monitor Speakers: IBL 4350, 4311 Auratone Echo, Reverb, and Delay Systems: EMT 140, Delta Lab DDL's Other Outboard Equipment: Eventide Flanger, Orbar De Essers, dbx Limiters, UREI limiters, Dolby Noise Reduction (30 track), Ampex VSO, Suma Computer systems SMPTE Synch Kepex II Microphones: Neumann U-47's, 49's 50's, Shure SM-2 87's 56's, 86's 84's Sennheiser M-441's M-421's, RCA 44DX 77

DX, EV's Crown PZM's Instruments Available: Steinway D" concert grand Hammond B-3 and E', drums, various percussion lots of vintage Fender

Rates: \$45/hr to \$125/hr depending on time booked

••••TANGLEWOOD RECORDING STUDIOS also REMOTE RECORDING

9520 47th St. Brookfield, Illinois 60513 (312) 354-3689 (or) (312) 485-0020 Owner: Larry Millas Rick Swin, John Pavletic Studio Manager: Larry Millas

••••TANTUS STUDIOS

also REMOTE RECORDING 18461 West McNichols Rd., Detroit, Michigan 48219 (313) 533-3910 Owner: Tanis Tramontin Studio Manager: Mary Ann McGrath

••••TRC MID AMERICA RECORDING CENTER also REMOTE RECORDING

1330 North Illinois Street, Indianapolis, Indiana 46202 (317) 638-1491 Corporation (several owners) Owner: Studio Manager: John G Garrett/President

Engineers: Andrew Symons, Chief Engineer, Gary Schatzlein engineer & executive producer, & Michael Bryant engineer & vice-president





Dimensions of Studios: 25' x 37' x 12 Dimensions of Control Rooms: 18' x 12'

Tape Recorders: MCI JH-14 w/interchangeable 16-track head stack 24 track, (2) MCI w/Dolby 361 JH 110B 2 track, Dolby M 16 16 track Technics M-85 casette

Mixing Consoles: Harrison 3232 w Aliison research Series 65K utomation 32 in x 24 out

Monitor Amplifiers: Crown PSA 2 Crown D150's

Monitor Speakers: Electro Voice Sentry 3's Electro-Voice Sentry Koss ESP-9 electronic headphones

Echo, Reverb, and Delay Systems: AKG BX-20E's (2) UREI Time Cubes ooner

Other Outboard Equipment: UREI 1176 limiters (3), UREI LA3A compressors (2), Eventide Harmonizer, Cooper Time Cube, UREI digital metronome, ADR Scamp noise gates (8), ADR Scamp compressors (2), ADR Scamp auto panner module. White Series 4000 31 band (2,

Microphones: Neumann U-87s, U-47's KM-84's Shure SM-57's SM-58's EV-RE-16 AKG-D100F's Sennheiser MD-421's Instruments Available: Fender Telecaster (gives EB bass

Fender Rhodes electric piano. Baldwin 9 grand piano. 2 grum kits (Premier and Rogers) Micro-Mood synthesizer. Sequential Circuits Prophet 5, Oberheim OBX Kazoo

Rates: 24 track/\$115/hr, 2 track control A \$75 hr, 2 track broad cast production time/\$55/hr. Remote recording available /rates vary per joh

••••UNIVERSAL RECORDING CORP 46 E. Walton, Chicago, Illinois 60611 (312) 642-6465

Owner: Murray R. Allen President

Studio Manager: Foote Kirkpatrick Engineers: Stu Walder, Bill Bradley, Danny Leake Richard Fairbanks, Bob Bennett, Diane Hagland, Bill Reis, Chuck Rapp, Dave Lewis, Rick Sweetser, Jeff Palmer, Tom Miller

Dimensions of Studios: Studio A 45' x 54', Studio B 20' x Backroom 9'x 12

40, Studio C. 15' x 20', Backroom - 9' x 12 Tape Recorders: A. (2) MCI 24 track recorders, (2) ATR Ampex 102 recorders, 3M 32'4 track Digital with Editor SMPTE In terlock for all machines using BTX system 4 track Ampex 440 also Ampex 440 mono machines Backroom MCI 24 track (2) ATR Ampex 102 2 track, SMPTE Interlock for all machines, ATP 4 track, B MCI 24 track recorders, Ampex ATR 102 2 track Ampex 440 4 track, 3M 32 4 track Digital with Editor

Mixing Consoles: Neve w/Necam computer 32 in x 32 out, MCI 8 in x 24 out, MCI 28 in x 24 out automated

Monitor Amplifiers: BiAmp, Crown for all Monitor and Cue

Monitor Speakers: UREI Time Aligned Monitors Auratones

Echo, Reverb, and Delay Systems: A (4) Echo Sends and eight returns Two Room Chambers, EMT plates 2) Lexicon o echo. Separate EQ for echo return. B. 14. echo sends. 4. echo returns one room chamber FMT Plate. Lexicon Digital Echo

Other Outboard Equipment: dbx Dolby UREL 3rd 8va equalizer, Orban parametrics, LA 2A 3A limiters extra 1176 limiters, vocal stressor, Eventide Flangers, Harmonizers, Eventide Digital Delay, White 3rd 8va Equalizer, Aphex, EXR Aural Ex-citers mise MXR equipment

Microphones: Neumann U 47, U 87 KM83 KM84 Telefunken U 47 U 67 AKG 414 451 Sennheiser 421 441 over 200 hun dred microphones to choose from

Instruments Available: Bosendorfer (4). Imperial grand plano (3) Steinway grands, Fender Rhodes. Celeste. Tympani. Full Sonar drum kit also Ludwig & Slingerland Synthesizers Ham mond B3 organ with Leslie speakers. Musser Vibes, Tack piano Rates: Studio A \$180'hr—Studio B \$145 hr Backroom \$145/hr. Studio C \$65hr

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MCI JH-16 16trk AL \$11,750. MCI JH-10A 2 trk VSO + Memory \$5,250. Auditronics 501 18x16 \$12,750. Package \$26,750. Greg: Day: 813-939-0330; Night: 813-549-1485

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Dear Mix,

We at JBI, were pleased to note Ed Long's mention of our new model 4430 Bi-radial studio monitor in his article "The Monitor Field" in the August issue of **The Mix.** There were, however, some factual discrepancies which we would like to correct.

The JBL 4430's shipping weight is 175 pounds, and its response is 3 db down at 35 Hz in a half-space, hemispherical free-field environment. Its rated 1 W @ 1 M sensitivity is 93 dB SPL. Since 2.83 volts RMS would develop 1 Watt across its 8 Ohm nominal impedance, and is 9 dB above a 1 volt RMS reference level, the voltage sensitivity of the 4430 would be expressed as 84 dB/volt/meter.

The list price of the 4430 is \$1,098.00 each; the list price of the dualwoofer 4435 is \$1,500.00 each. Specification sheets, sales brochures, dealer and delivery information can be obtained by contacting the JBL Professional Products Division.

> Sincerely, James B. Lansing Sound, Inc. Mark R. Gander Applications Engineer Professional Division 8500 Balboa, Blvd. Northridge, CA 91329

Dear Mix,

I am writing with some comments on Diane Sward Rapaport's fine article and listing of educational offerings in audio in your July, 1981 issue.

A sadly neglected aspect of most educational programs (including those in audio) is a

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clear expression of what they propose to prepare the student to do. This is not so much a function of the specific courses or equipment involved, but rather of the mindset of the instructors and the curriculum design. As director of one of the few degree programs in sound recording, I have been interested to note how few applicants know anything about the industry in which they desire to work, or anything about the rate at which that industry is changing. "State-of-the-art" is a meaningless term in education. Your readers would do well to keep in mind that it is no longer possible to train on "state-of-the-art" equipment, because by the time that the student has completed his training, that equipment is obsolete. Further, the environment in which the students expect to work may also be gone. This phenomenon often leads to students entering the job market with inappropriate skills and/or real naivete about their entry role in the industry. Teaching strategies to deal with this are all too rare.

People seeking training in this field should therefore very carefully consider their longterm career goals, and look toward training that is appropriate. If an entry-level position in local sound reinforcement is the longterm goal, then quite rudimentary training (such as the typical 30 hour beginning course in audio offered widely by studios and schools), coupled with a lot of roadie work and the obligatory reading and independent study is probably the best (meaning most cost-effective) training.

On the other hand, if your goal is to ultimately own your own studio after twenty years of engineering and producing for a major label, then you probably want a *lot* of education in music, business, science, audio, and personal relations, not to mention law. And you are going to want these things under your belt *before* you enter the job market.

Sincerely, David Moulton, Director Sound Recording Technology Fredonia State University Fredonia, New York

Dear Mix,

Thank you very much for responding to our request in sending the Department multiple copies of "Mix". We find that this is the best magazine of its kind and has great interest for myself and for our students. We should be very pleased if it is possible to continue receiving the magazine, though we realize that it is guite expensive for you to send it. I first heard of "Mix" when I was in Poland, and find it strange that I had to go to Eastern Europe to make this valuable discovery.

Yours sincerely, David A. Pickett Lecturer in Recording Techniques University of Surrey, England Spectra Sound 1000B, a new industry standard in graphic equalizer performance, reliability, and versatility. To be an audio industry standard requires unequaled performance, reliability and versatility. The Spectra Sound 1000B 10 band graphic equalizer excels in these realms with improvements not previously available to the professional audio industry. The unmeasurable distortion and extremely low noise of the 1000B did not happen by accident, but are the result of design and manufacturing techniques developed over the years.

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