

# INTERCOM

**HARRIS**

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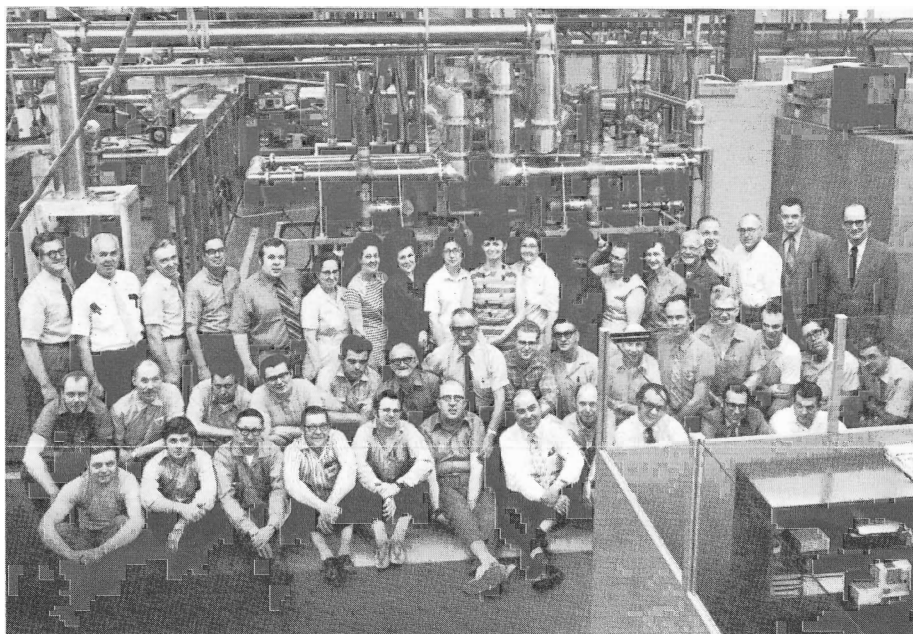
A DIVISION OF HARRIS-INTERTYPE CORPORATION

VOLUME V

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MAY, 1972

## KGO MT. SUTRO TV SYSTEM IN FINAL TEST



Most of the Gates people who worked on the KGO-TV project are pictured above. Some of the personnel were unavailable at the time the picture was taken.



In Quincy to witness KGO system testing, ABC RF Engineering Manager Fred Zellner (center) is shown in front of the 25 kW Channel 7 transmitters, with Nibs Jochem, Jim Aurand, Howard Young, Hans Bott, Gene Whicker and Vern Killion.

The month of June marks the shipping date for the largest and most complex VHF TV transmitting system in the Company's history. Designed and manufactured by Gates for KGO-TV, the system is based on the philosophy of 100% redundancy with fully automatic switching and complete remote control and logging.

KGO-TV, owned and operated by American Broadcasting Companies, Inc., will occupy new facilities at Mt. Sutro, near San Francisco, California. Mt. Sutro boasts one of the largest single towers ever constructed for multiple antennas. It is fitting that Gates was chosen to design, manufacture and install one of the most advanced VHF TV transmitting systems for this location.

The fully automated transmitting system employs three Gates' BT-25H1 TV transmitters. In the normal operating mode the outputs of two of the three transmitters are combined, with the third transmitter

held in reserve. The combined mode visual output power is 50 kW and the aural 10 kW. The exciters are equipped with Gates precise frequency control.

The Gates built RF switching system was designed specifically for KGO-TV and is the largest of its kind ever used by a TV station. Solid state logic is employed to automatically control the input and output RF switching functions. Numerous combinations of the three transmitters, three exciters, two diplexers and two antenna feeds are made possible manually by pushbuttons or automatically by means of limit sensors. All RF switching is accomplished by motorized coax switches. Signal paths and operating modes are graphically displayed on a system block diagram.

To assist in equipment maintenance, any transmitter, exciter, or diplexer, not on the air, can be operated into a dummy load. Twenty-two RF monitor points can be selected and directed into a full complement

of self-contained test equipment.

Twelve rack cabinets house extensive automatic video and audio switching equipment, and video, audio and RF test equipment. Complete signal processing is also a part of the system. A new concept in remote control provides manual or automatic control, monitoring and logging.

Gates received the contract for the KGO-TV Channel 7 transmitting system with responsibility for design, manufacture, installation and on site test. The magnitude of the task prompted the formation of a Project Team with representatives from all departments. Program Manager, Jim Aurand and Customer Coordinator, Vern Killion provided the leadership insuring the project's success. Other key positions were filled by Burt Buy, Fred Haushalter, Howard Young, Jack Eliason, Buck Perry and Duke Walker. Hans Bott and Dan Maase served as Consultants and Nibs Jochem as Officer in Charge.

The KGO-TV project is another example of Gates unique ability to combine advanced technology and manufacturing know-how in a dedicated service to the broadcasting industry.





# FOCUS FOCUS FOCUS FOCUS

## THE U.S. AND WORLD TRADE

As almost 25% of Gates' manufactured products are exported, many jobs are related to our company's ability to be competitive in overseas markets. A strong company position and a strong total U. S. posture in international commerce is of vital importance to all of us.

The world trade situation has undergone rapid change in recent years. Although free world exports grew 400% in twenty years, the U.S. share fell from 22% to 18%. In a relatively short period of ten years, our trade balance changed from a surplus of \$5.4 billion in 1960 to a deficit of \$2.0 billion in 1971.

An important factor in the development of this unfavorable trade balance was a great increase in international competition. The U.S. manufacturer who could sell almost anything he produced, in almost any market he chose, now finds competition from Europe and Japan in all his markets, including the market here at home. Advancing technology in other nations added to the strength of this foreign competition.

The main factor, though, is simply that U.S. exports have lost their competitive edge due to rising prices caused by inflation.

It is essential that the U.S. regain its position in the world market and that we again achieve a surplus in international trade.

As exports are our greatest source of dollar earnings abroad, the emphasis should be on increasing exports of U.S. products. This means meeting the challenge by enhancing U.S. competitiveness, improving productivity, eliminating unfair trading practices, and emphasizing technological advances.

Maintaining a high level of export sales has always been a prime objective at Gates, and will continue to be so.

Programs to further increase our position in overseas markets are based on offering products which reflect strong, technological leadership. Broad market coverage, direct mail and foreign trade journal promotions, and good delivery of standard products are also essential elements of a strong position in export markets.

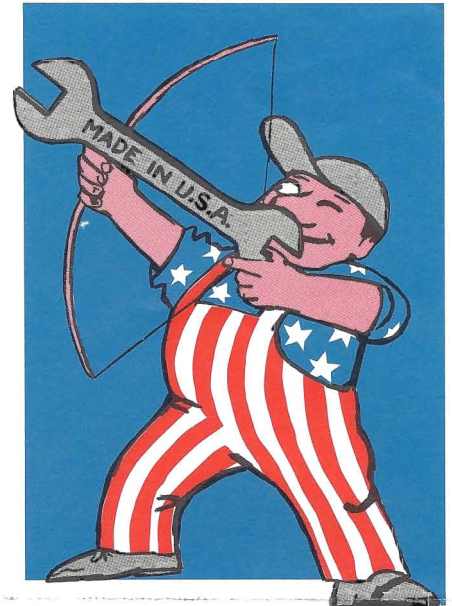
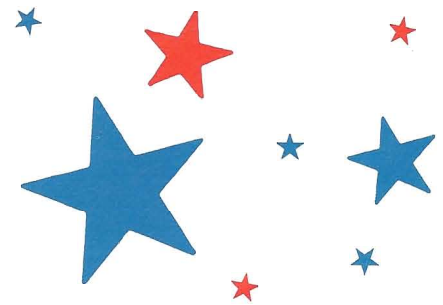
New products which have already demonstrated strong acceptance in world markets include our IF MODULATION television transmitters and radio broadcast transmitters employing PDM. These products have produced orders from Malaysia, El Salvador, and the Philippines, and substantial sales volume for these high technological products is expected from overseas markets in general.

The basic long term assurance that the Gates Division will continue to be competitive in the world market rests on what we do in our own company to increase exports, and not what our competitors in the rest of the world do.

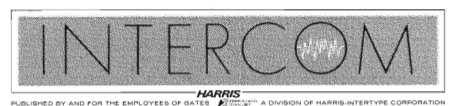
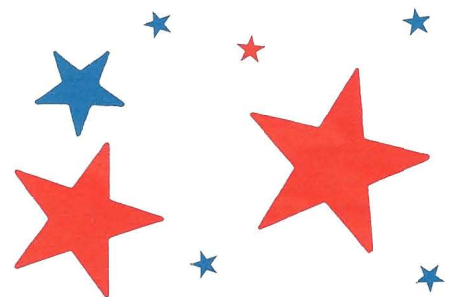
For the U.S. in general, as well as for Gates, productivity increases, technology product leadership, and an intensive effort toward more exports represent action approaches to a leadership position in international trade.

*Lawrence F. Cerwoy*

Vice President-General Manager



## EXPORTS CREATE JOBS



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## ROG VEACH COMPLETES 20 YEARS OF SERVICE

Pictured left is Rog Veach receiving his 20 year company award from Larry Cervon. Included in the group offering congratulations were Nibs Jochem, Gene Edwards, Gene Whicker and Jim Eaton. Rog joined the company in 1952 as the first Personnel Director. He has guided the company's personnel policies through 20 years of growth. Also, Rog has been instrumental in developing outstanding community relations, and is currently President of the School Board, Chairman of the Quincy Public Works Commission and Vice President of Chaddock Boys School besides being an active member of the Vermont Street Methodist Church. Congratulations Rog!

## SERVICE AWARDS



1 Year  
Ann Jones  
Trans. Assy.



1 Year  
Larry Mack  
Fabrication

## RACQUETBALL CLASS A TOURNEY WON BY JIM EATON

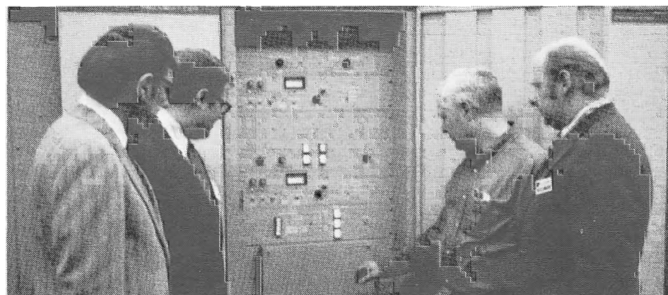


Jim Eaton

Jim Eaton, Vice-President Manufacturing, earns Class A Racquetball Championship over 21 other contestants in the YMCA tournament. As was the case last year when John Rodemann and Jim Eaton clashed, the competition was great. Last year John defeated Jim in the semi-finals and went on to become champ, but this year when they met in the finals, Jim defeated John two out of three games to earn the trophy.

Our congratulations go to Jim on receiving this trophy.

## POWER INCREASE IN LINE FOR WUHY-FM



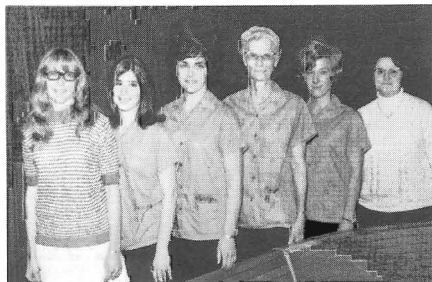
Shown in the above picture from left to right, Rolland Looper, William Weber, Merlin Brickman and Robert Hall.

Robert Hall, Director of Engineering and William Weber of WUHY-FM, Philadelphia, Pa., are shown witnessing the final test of a FM-10/10H3 transmitter.

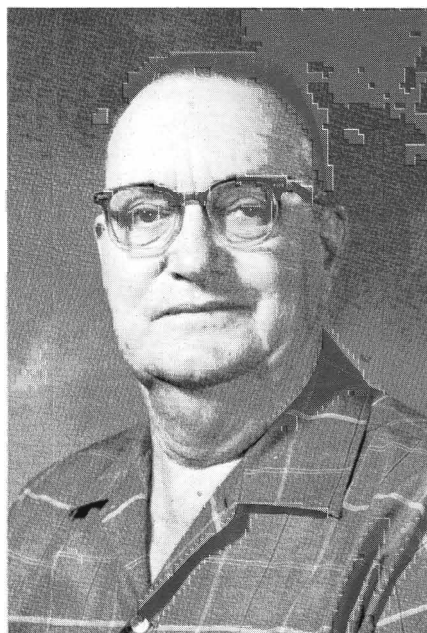
This addition of Gates transmitting equipment at WUHY is just one more step in the up-dating process that will allow for a major power increase resulting in better radio coverage for the people of Philadelphia.

## GATES' THIRD GALS BOWLING TEAM "THE HITS AND MISSES"

Our third Gals bowling team rolled at the Park Bowl where they finished 7th in a twelve team league.



Pictured above is Connie Kasparie, Nancy Kropp, Marilyn Tournear, Clarice Bless, Su Loos and Theresa Bless. Connie and Theresa each bowled half of the season.



Les Hoskins

## AFTER 13 YEARS, LES HOSKINS RETIRES

Les Hoskins retired from Gates on April 10, 1972 after completing 13 years of service to the company. He joined Gates in the radio assembly department and spent most of his time in this area. During the last two years he has been a member of the Maintenance Department.

Les and Mrs. Hoskins live at 1841 Chestnut and in the near future are planning to move to their farm located north of Augusta. They have two children, Lowell Hoskins who is also associated with Gates and Mrs. Bonnie McNett who is a nurse at Dr. Stevenson's Eye Clinic. They also have seven grandchildren and are members of the First Christian Church.

We wish Les a long and enjoyable retirement.

# GATES MEN'S BOWLING LEAGUE

1971-'72 SEASON

## FINAL TEAM STANDINGS

- |                 |               |
|-----------------|---------------|
| 1. Untouchables | 5. Spoilers   |
| 2. Ten Pins     | 6. Fantastics |
| 3. Pacers       | 7. Good Guys  |
| 4. Five Markers | 8. Rejects    |

## HIGH IND. SERIES W/HC

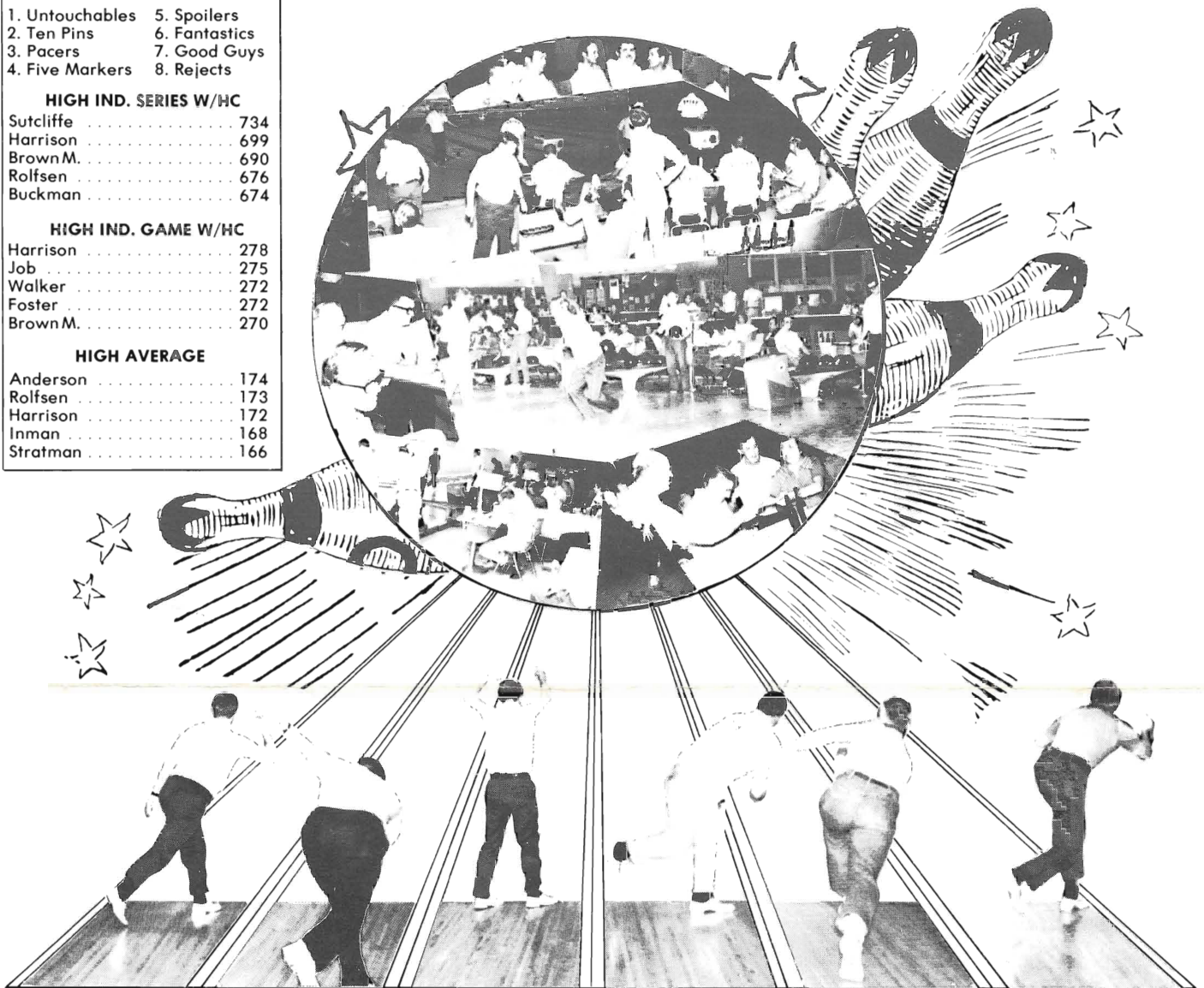
|           |     |
|-----------|-----|
| Sutcliffe | 734 |
| Harrison  | 699 |
| Brown M.  | 690 |
| Rolfson   | 676 |
| Buckman   | 674 |

## HIGH IND. GAME W/HC

|          |     |
|----------|-----|
| Harrison | 278 |
| Job      | 275 |
| Walker   | 272 |
| Foster   | 272 |
| Brown M. | 270 |

## HIGH AVERAGE

|          |     |
|----------|-----|
| Anderson | 174 |
| Rolfson  | 173 |
| Harrison | 172 |
| Inman    | 168 |
| Stratman | 166 |



GATES DIVISION

**HARRIS-INTERTYPE CORPORATION**

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