



Technitopics

by Sandy Day

AM STEREO—WHERE DO WE GO FROM HERE?

The pressure for quick resolution of the AM stereo dilemma increases rapidly. AM stations are feeling the squeeze from the sluggish economy coupled with the high cost of borrowing. Listeners increasingly turn to FM. A recent survey in the U.S.A. by Statistical Research of Westfield, N.J. gave FM a 61 per cent share of listening. AM broadcasting sorely needs a shot in the arm, and many believe that stereo may just provide it.

The sub-committee headed by Peter Cahn, Eng., on AM Stereo reported on its deliberations to date at the DOC Technical Advisory Committee on May 25th. Four recommendations were brought forward:

1. That DOC authorize temporary AM Stereo operation using

Sandy Day is Vice President of Engineering Services for the Canadian Association of Broadcasters. Readers' comments or questions may be addressed c/o CAB, Box 627, Station B, Ottawa K1P 5S2.

any system, stipulating that in the future, a single system may be adopted, with which any broadcaster would then have to comply;

2. That DOC investigate procedures for type-approval and for authorization;
3. That CRTC, as soon as possible, advise on the position it intends to take regarding AM Stereo;
4. That DOC request the CRTPB to take action on developing standards.

The CAB, based on the results from its April survey of AM members (see below), and on recommendations of its Technical Committee, while agreeing with the last three suggestions, opposed the first. The answers from members had clearly indicated that they wanted a single system for Canada agreed to by the industry, and ultimately ratified by the DOC. According to advice from the Combines Investigation Branch

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TECHNITOPICS

of Consumer and Corporate Affairs, the industry could propose cooperative action and could propose the choice of system to DOC in the absence of a DOC "marketplace" approval. However, if prior to this, DOC had authorized a choice of systems, the Combines people were not too sure whether an infraction of regulations would occur or not.

The CAB recommended that only short-term experimental operation be permitted for the present. Furthermore, they were concerned about the reaction of listeners enticed into purchasing stereo receivers which very possibly would be obsolete if another system won out. Resentment on the listeners' part would be anticipated against the station, the dealer and the government. The CAB recommendation contained a proviso that no commercials promoting the system under test be aired by the station during the experimental period, and that further, the stereo receivers used in the tests be provided by the broadcaster of the proponent. In this way, few stereo receivers would reach the homes of listeners, and monophonic listeners would have an opportunity to complain if the stereo broadcasts caused any difficulty with normal receivers.

With the question referred to the CRTPB Radio Broadcasting Committee, a full industry consensus, that of receiver and transmitter manufacturers, consultants and broadcasters could hopefully be achieved. By a little more than coincidence, Peter Cahn is also chairman of the CRTPB committee.

Whether DOC will follow the recommendations of the CAB is not known at present, but there was general agreement with CAB's proposals by members of the TAC.

A. POLICY

	Agree	Disagree
1. Broadcasters should be able to use any system they desire, as is proposed by FCC in the USA.	9.9	90.1
2. Authorization of other than experimental AM stereo in Canada should be postponed until some "marketplace" decision is perceived in the USA.	75.3	24.7
3. Canadian broadcasters, by democratic (majority) decision, should institute a single system in each city/market area.	22.4	77.6
4. Canadian broadcasters, by majority decision, should agree to a single system for Canada.	85.7	14.3
5. A single system should be instituted in Canada by DOC Regulations.	73.1	26.9

B. YOUR CURRENT PREFERENCE

System	1st Choice	Combined 1st & 2nd Choices
Belar	0.0	0.8
Harris	38.5	33.6
Kahn	7.7	8.0
Magnavox	14.2	23.2
Motorola	3.3	8.0
No opinion	36.3	26.4

Results of the Questionnaire

The original percentages given by CAB were based on responses received up until May 5th, shortly after the April 30th deadline. As of May 21st, a final compilation, including late responses, was made. The final figures represent answers from over half of the CAB AM station members. (All figures are per cent of responses.)

C. HOW SOON?

	Total Replies		a) Major Markets		b) Middle Markets		c) Small Markets	
	(1) One System	(2) All Systems	(1) One System	(2) All Systems	(1) One System	(2) All Systems	(1) One System	(2) All Systems
As soon as possible:	38.1	7.6	72.0	20.0	38.9	8.3	18.1	0
Within 1-2 years:	25.2	10.5	16.0	8.0	41.7	22.2	17.0	2.3
Not for some time:	32.8	29.0	12.0	32.0	19.4	36.1	55.7	21.6
Never:	1.0	11.9	0	12.0	0	8.3	2.3	14.8
No answer, qualified or don't know:	2.9	40.9	0	28.0	0	25.0	6.8	61.3

(1) If a single system is authorized.
 (2) If all systems are authorized.

a) Responses of Major Market stations.
 b) Responses of Secondary Market stations.
 c) Responses of Small/Rural Market stations.



THE PHIL STONE REPORT

Ted Randal—radio's pioneer consultant

If Canadian men and women were as loving, were as dedicated and as loyal to their spouses, as Canadian men and women in broadcasting are to their industry, divorce lawyers would be out of business.

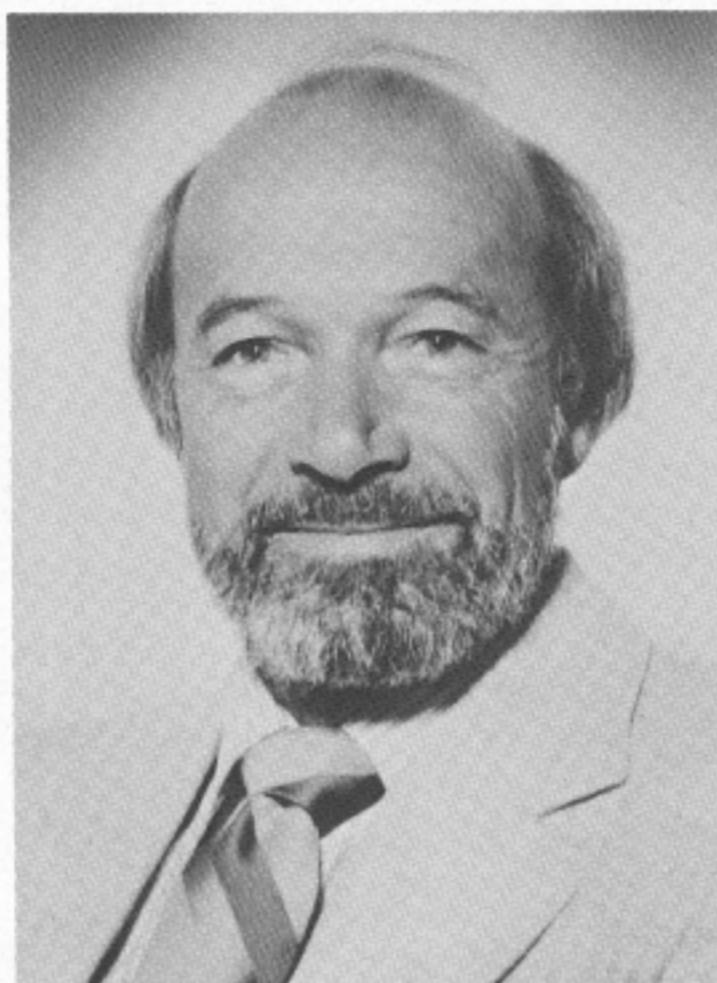
Everywhere one goes, one finds station owners, managers, chief engineers, station staffers, who—whether in the business one year or 34—are still in love with broadcasting. To find one who isn't, is as rare as discovering a morning announcer who doesn't think that without him the station would collapse, become a deserted oasis.

Ted Randal, the vice-president and general manager of CHFI Toronto, is a 34-year-in-broadcasting man who still cares with an undisguised passion for the Lady called Radio.

To talk radio with Ted is to talk with a man who has had a powerful influence on its development as a medium that was able to survive and prosper, despite the surging popularity of television at both the public and advertising level.

While he had his own extensive background in radio, from go-fer to general manager, he was best known to Canadians as Ted Randal, Consultant. Indeed, he was the very first consultant ever—and in the tight family of broadcasting, word of his capabilities and successes soon travelled far and wide. As a result, he consulted stations not only in the United States but also in Canada, Mexico, Australia, New Zealand and, even one in England. While he was at first a product of the Top 40 format that sky-rocketed across North America, taking hundreds of stations to peak levels in the ratings, Ted also worked the other side of the street: MOR, Beautiful Music, All-Talk, All-News, Black, C&W—virtually the entire spectrum of the programming scene.

There was a time when we could have lost this man, who has left his indelible mark on broadcasting, to the world of the theatre. "When I came out of the U.S. Navy after World War Two," said Ted, "and throughout my years at university, I wanted nothing else but to be in the



world of theatre. It was Victor Jory, the movie and stage star of that time who talked me out of it because, from his experience, there was really no money in it. How about radio then? I asked him. He said that was okay. So in 1947, after taking a couple of radio courses at university, I got a job in a small station in Oregon."

Ted said he was making "the fabulous salary of fifty dollars a week as a basic radio announcer who voiced all kinds of things, eight hours a day." The money he earned helped him through the University of Oregon and then he moved on to what he describes as "a lot of rather small stations. For about the next nine years, I spent my days learning about every facet of the radio field. I really enjoyed the business and I would work 12, 15, 16 hours a day learning everything. I became a sports announcer, I learned about traffic, I became a disc-jockey, standard announcer—I did everything, including sweeping out the station. I found out how to write commercials—I just couldn't get enough of radio. In a sense, I sort of climbed up the ladder as I went along. I'd go to a small market and in about a year,

basically I would have accomplished that market—gone as far as I could go. When that happened, when I had grown, somehow or another an offer would come in from a little bit bigger market, or I'd find such a station and make an application. I moved up from such places as Twin Falls, Idaho, to Boise, Idaho; from Pocatello (remember Judy Garland's song?) to Omaha, Nebraska—a variety of places."

Ted's breaking-in period was largely in the U.S. midwest and he feels that from it he got a "really sound foundation in radio underneath me." He's gone the circuit from the staff announcer to sales manager, general manager.

Ted was selling and announcing in Greenville, Mississippi, when the station owner decided to buy a radio station in San Francisco. Ted leaped at the opportunity to finally get to a major market. It took some convincing, because he was doing such a fine job in Greenville, but his persistence was successful. In September, 1956 he was one of the people at KOBV who put the very first rock'n'roll station on the West Coast on the air. "We were at 1550 on the dial and really nobody could hear—I think we had 10,000 watts—with San Francisco being hilly as it is. They even had a tough time hearing us in Oakland! But we came on with so much strength that within four weeks after we hit the air with this exciting new format, the guy from Hooper Rating Services came in saying, 'You guys must be doing something you shouldn't be doing here. You're already appearing as one of the leading stations in this market.' In 13 weeks, Phil, we had 65 per cent of the total audience!"

From that point, Ted went on to become program director of the station, remaining in San Francisco for five years. During that time he was offered a job in television at KPIX-TV to handle a show to compete directly with Dick Clark (who has been a close friend of Ted's ever since). At that time there were three major rock music TV shows in the

U.S.—Dick Clark's, Buddy Dean's, and Ted Randal's; Ted's popularity as a radio announcer helped him walk off with the top rating.

But Ted wanted to get back into radio and that was when—in 1959—he developed the first consulting business. "I was the very first person," he said. "Indeed, it was such a new idea that I didn't know what to call myself. I said to myself, 'if I know enough about radio from San Francisco, there must be a hundred stations in smaller markets that can't get the product—because records were the major product. I could do it all from here: I could send them the records by bus and they would get them the same day that I get them in San Francisco. So if they program them the right way, they'll be far ahead of their competition who can't get this service anywhere else'."

Within six months Ted had programmed 30 radio stations and all 30 were now number one in their market. About that time, Crowell-Collier purchased KFNB in Los Angeles and hired a bright young program director named Chuck Blore. The station, Ted said, was so successful with a rock format that it was the most listened-to station in the entire world. As a result of this success, Crowell-Collier decided to open a station in San Francisco, and after a meeting with Blore and his people, Ted was hired for the station, KEWB, as a disc-jockey and music director, and allowed to carry on his consulting business. From nine to noon he was on the air, and then off to his office to put on his other hat.

I asked Ted if he thought radio had done the right thing in adopting rock'n'roll as a major format. "We had no other choice," he replied. "Let me tell you an interesting story. I happened to be in Omaha in 1953. I was sent there from Pocatello when the people I worked for bought KOIL. At that time, Todd Storer had recently opened KOWH—a daytimer that really had no audience. And the story is legend but it is absolutely true. Todd, with no ratings and little money, was sitting in a restaurant with a couple of his cohorts and they listened to the people play the juke box over and over and over. Forty basic tunes. So Todd said, 'Let's do the same thing. We'll play the top 40 records as our programming pattern.' And that," said Ted, "is exactly where the term Top 40 came from."

Ted said that Storer's station went on to capture 63 per cent of the audience, while Ted's station, on air full-time, had 3.4 per cent. "That was a great lesson and I really learned fast. So did KOIL. It went Top 40 rock'n'roll and eventually

came out the winner. Radio stations everywhere," said Ted, "did the same thing in the States, and it was the only thing at the time that saved radio. Every station that went Top 40 salvaged itself—the others had problems."

Ted said this was the reason he had 30 radio stations he was consulting. "I had only one format and that was rock'n'roll. You could drive from San Diego right up to Washington state and hear one of my stations along the way and they all sounded exactly the same."

Eventually Ted came to Canada as a consultant for CHUM, working with the CHUM Group for about five years. He commuted from Los Angeles, where he was then housed and working for many stations as a consultant. He remained there free-lancing from 1962 to 1974. He then sold his Los Angeles business, moved to Canada and consulted in this country for two years before joining Ted Roger's staff with the responsibility of running CHFI. Behind him was an outstanding record of having worked with and/or consulted over 150 radio stations.

Now a Canadian citizen, Ted has fitted comfortably into life in this country.

When I went to interview him he took me on a tour of CHFI and you could feel his touch. He is a basic, quietly efficient man who gives his staff the wherewithal to work with, their turf to seed and nurture. From Ted's office with its peaceful rustic flavour (he owns a farm and is there when not at the station), to the announce studios, everything is clean, utilitarian and eye-appealing.

It has been said that radio will survive in the future when High-Tech and Pay-TV come to their full blossom, because of its mobility, its power of the instant, and Ted concurs. His love affair with radio is by no manner or means just a flirtation, a sometime thing. It is for the forever of his life. "Radio," he said, "is just as exciting to me today as it was back 34 years ago."

Phil Stone is a well-known writer, broadcaster and educator, whose Phil Stone Report and Broadcast Beat are regular features of Broadcast Technology. Phil may be reached at 2350 Bridletowne Circle, #1601, Scarborough, Ontario M1W 3E6, telephone (416) 492-8115.

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in the news

RTNDA AWARDS

The Radio-Television News Directors Association of Canada has honored the news departments of 20 stations for their work during 1981. RTNDA awards are presented in three categories:

"CHARLIE"—for spot news reporting (named after Charlie Edwards, former general manager of BN):
CKNW New Westminster, B.C.
CFCH North Bay, Ont.
CFCH North Bay, Ont.
CBGA Matane, Que.
CBY Corner Brook, Nfld.
CFRN-TV Edmonton, Alta.
CBLT Toronto, Ont.
CITY-TV Toronto, Ont.
CBNT St. John's, Nfld.

"DAN"—for documentaries or news specials (named after the late Dan McArthur, first chief news editor of the CBC):
CKIQ Kelowna, B.C.

CJAY-FM Calgary, Alta.
CHAT Medicine Hat, Alta.
CFCH North Bay, Ont.
CKSL London, Ont.
CJMT Chicoutimi, Que.
CJLS Yarmouth, N.S.
CHNS Halifax, N.S.
CFRN-TV Edmonton, Alta.
CITY-TV Toronto, Ont.
CFPL-TV London, Ont.
CJCH-TV Halifax, N.S.

"SAM"—for commentaries or news analysis (named after the late Sam Ross, pioneer news broadcaster):
CFAX Victoria, B.C.
CHUM Toronto, Ont.
CHML Hamilton, Ont.
CFNB Fredericton, N.B.
CKEC New Glasgow, N.S.
CFRN-TV Edmonton, Alta.
CKY-TV Winnipeg, Man.
CITY-TV Toronto, Ont.

(National awards are in **bold** type; honorable mentions in *italics*.)

Two RTNDA scholarships of \$1,000 have been awarded to third-year journalism students at Carleton University, Ottawa. They are Margot Maguire of Toronto, and John Weidlich, who is from the Edmonton area, winner of the Dr. G.R.A. Rice scholarship.

BN ON BIRD IN '83

Bob Trimbee, general manager of Broadcast News, says BN's full wire and audio service should be on satellite by the fall of 1983. The move is expected to facilitate the trend towards computerized and automated newsrooms, which Trimbee says will cut costs in the long term, and also free staff for local news coverage.

MINTON NEW RBC PRES.

The Radio Bureau of Canada has named Brian C. Minton president, succeeding Lou Tameanko, who has joined the Radio Advertising Bureau in New York.

Minton's background includes retail marketing in the appliance industry and he was most recently v.p. of sales for the Newspaper Marketing Bureau.

VIDEO EXPO RETURNS

Video Expo International—a trade show and conference for non-broadcast video—will be held September 1-3 at the Toronto Hilton Harbour Castle.

The conference will offer 27 seminars, each two hours, organized by Bev Dales of Corporate Communications Inc., Toronto. There will also be all-day sessions available on the two days preceding Video Expo: the topic on August 30 will be *A total systems approach to interactive video*; and on August 31, *Today's communication technology—tomorrow's applications*. On August 31, there will also be a day-long lighting workshop, covering both studio and field techniques.

Some 3,000 attendees are expected, and exhibitors will include Sony, Panasonic, Hitachi, Ampex and major dealers. For further information, contact Video Expo International at 14 Dundonald St., Toronto M4Y 1K2, (416) 281-3545.

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STATIONS IN THE NEWS

- CHLQ-FM Charlottetown, P.E.I., is now on the air, with a country music format. Q-93 is Eastern Broadcasting's seventh station (see article in *BT*, Jan/Feb/82); p.d. is Brian O'Connell.

- The marriage of broadcast and cable TV holdings in Sault Ste. Marie, Ont., is about to end. Carmen Greco, one of six owners of Huron Broadcasting, is leaving Huron and will be joined by Jim McAuley, Paul Fockler and Larry Guerriero in setting up a new company to take over CKCY, CJQM-FM, CJIC-TV/CKCY-TV, CJNR Blind River, CKNR Elliott Lake, CKNS Espanola and CJWA Wawa. Huron will continue to control Lake Superior Cablevision.

- Global TV has laid off 21 employees as a result of poor economic conditions.

- CISN-FM Edmonton began operations on June 5, with a C&W format. President and g.m. is Bob McCord, p.d. is Gerry Siemens, formerly of CIRK-FM Edmonton, and news director is Manny Buzunis, formerly of Winnipeg.

- CKND-TV Winnipeg plans to have its Minnedosa rebroadcaster on-air September 1. The station will operate on channel 2 using the tower of CKND's forerunner, KCND-TV Pembina, North Dakota. The 1278-foot tower, weighing 123 tons, was dismantled in 25-ft. sections for the move to the new site at Basswood, Man., 12 miles west of Minnedosa. Imagineering Ltd. is project manager; tower work is by L&R.

- CITR Vancouver, the U.B.C. station, is now a full-scale FM operation, with a non-commercial, progressive rock and "alternative" format. Manager is Sonia Mysko.

- CKIK-FM Calgary was ordered to reduce power from 100 kw to 10 kw by DOC, after pilots of small aircraft complained the station was interfering with air traffic communications at the city's airport. No major aircraft experienced interference problems and CKIK operations manager Yves Mayrand says its doubtful the new FM station is at fault. It is expected that different frequencies will be assigned to air traffic.

- A \$200,000 fund for Canadian record production has been set up by three major broadcasters: CHUM Ltd., Moffat Communications and Rogers Radio. Also participating are the Canadian Music Publishers Association and the Canadian Independent Record Production Association, which will administer the fund through a 7-man board.

BROADCAST TECHNOLOGY

- J.A. (Pete) McNabb, president of CKLY Lindsay, Ontario, has announced the sale of the station to Philip Beswick, sales manager at CFGO Ottawa. The reported price is about \$1 million.

- TVOntario has announced that a new transmitter will be added to its educational TV network to cover the Muskoka area. Located near Huntsville it will cost \$1.88 million and increase TVO's coverage of the province to 93% by late 1983.

- CJXX Grande Prairie, Alta., has been sold to Central Alberta Broadcasting, a subsidiary of Monarch Broadcasting Ltd. (CHAT Medicine Hat, CKRD Red Deer).

- Among the five applicants for 1580 kHz in Edmonton is a group planning a gospel/inspirational music station. Opposing the licensing of any further stations in the market are Lew Roskin of CHQT and Ed Polanski, who recently took over financially-troubled CKST in suburban St. Albert.



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3.2 second maximum delay	6,966.00	5,427.00
6.4 second maximum delay	10,854.00	6,966.00



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business report

CANADA

• **Canada Wire**—42,000 sq. ft. fiber optic plant, costing \$3.8 million, opened in Winnipeg.

• **Comfort Sound**—Toronto recording studio has added real-time cassette duplicating suite; system uses 1/2-track open reel recorder to feed 10 decks.

• **Communications Equity Corp.**—Toronto distributor of cable TV equipment has acquired 80% interest in National Business Communications Inc. of Ft. Lauderdale, Fla., a telephone interconnect company.

• **DBC Ltd.**—As of late April, had shipped 100 transmitters for Cancom licensees, through its distributors, Channel One Video of Vancouver, Satel Communications of Ottawa, and S.E.D. Systems of Saskatoon. DBC (Delta-

Benco-Cascade) is also supplying low-power VHF/UHF transmitters to TVOntario, which plans to extend service to 170 remote communities in northern Ontario.

• **Larcan Communications Equipment Inc.**—recent transmitter sales include a 30 kw with Cetec batwing antenna for Minnedosa rebroadcaster of CKND-TV Winnipeg; a 3 kw replacement unit for CHEM-TV Trois-Rivieres; and 25 kw FMs for CBC at Yarmouth, N.S., and Lethbridge, Alta.

• **Leitch Video**—now occupying new plant, 31,000 sq. ft. on 1.4 acres, in Don Mills (Toronto).

• **Maclean-Hunter Ltd.**—reports gain of \$4.6 million from sale of CFCN tx site in Calgary. Company says it will continue to expand cable TV interests in U.S., despite opposition to foreign ownership. In Ontario, M-H Cable TV has retained Dorothy Forbes Communication Services to study effects of community programming produced on its 16 systems.

• **Medallion Film Labs**—moving to new processing and post-production facilities at 19 Mercer St., Toronto (near CN Tower).

• **Pacesetters Cable Consultants, Inc.**—new company formed by Robert Gross Associates and Beverley Briggs Consultants will provide marketing and training services for promotion of pay-TV in Canada.

• **Python Productions**—newly-formed arm of Multilingual TV, Toronto, is headed by James Snelling.

• **RCA Inc.**—Broadcast Systems eastern office has moved to 5575 Royalmount Ave., Montreal, Quebec H4P 1J8, telephone (514) 342-6500.

• **Rabko Television**—26-year-old Toronto production house closed down by parent company, Bomac Batten, as of April 9, 1982.

• **Rogers Cablesystems Inc.**—6-month report shows loss of \$2.15 million

on revenues of \$96.7 million, compared with profit of \$3.17 million on revenues of \$53 million in previous year. Major factor in loss is interest on loans for U.S. acquisitions. RCI subscribers now number nearly 2 million.

• **Rogers Cable TV**—new Mississauga location consolidates previous offices (of Credit Valley, Keeble and Terra Cable TV) at 3573 Wolfedale Road, Mississauga, Ont. L5C 3T6, telephone (416) 273-8000.

• **Satel Consultants Ltd.**—appointed official sales agent for Cancom. Ottawa firm has provided some 80 TVROs throughout Canada.

• **Slide Factory**—new company, headed by Tony Cook, formerly a partner in Impulse A/V Ltd., offers consulting for A/V, as well as custom and library slides. Address: 469 Eglinton Ave. West, #100, Toronto, Ont. M5N 1A7; telephone (416) 482-6212.

• **Ward-Beck Systems Ltd.**—will supply audio equipment for new CBC facility in Regina; contract includes two TV production consoles, six custom radio consoles and a 16-track recording console.

• **Watkins & Associates**—Stan Maruno, formerly of McCurdy Radio Industries, is now a principal of the company. Stan Watkins will remain active in the firm, which represents Monroe Electronics remote monitoring alarm and control systems and Techsonics ultrasonic detectors.

• **Western Broadcasting**—has purchased 60% of Systems Programming Ltd., international supplier of computer software which employs over 400 in London, England. Remaining 40% is owned by British government.

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BUSINESS REPORT

• **Continental Electronics**—honored by Egypt OBTF for installation work on two recent AM transmitters of 500 and 2,000 kw.

• **Kodak**—named official consultant and supplier of film and processing for 1984 Olympic winter games at Sarajevo, Yugoslavia.

• **MTV**—Toronto station will produce over 400 episodes of *Islamic Horizons*, a daily religious TV show to be seen in Dubai and other Middle East countries.

• **Pye TVT Ltd.**—recent contracts include four OB vehicles with 12 cameras, recording and microwave equipment, for the 1982 Asian games in India; eight UHF-TV transmitters for Italy's RAI; and two OB vehicles with 10 cameras for Zimbabwe-Rhodesia. Both India and Zimbabwe are introducing color TV. In the U.K., the BBC has bought five EFP cameras, and Granada TV has purchased 20 monitors and a customized CDL switcher for new control rooms at the Manchester TV Centre. Pye has increased staff to handle

increased international business, notably for transmitters, with major orders from Korea (50 txs valued at 10 million pounds), Italy, Finland, Sweden, Chile and the U.S.A.

• **Scientific-Atlanta**—has supplied 33 TVROs valued at \$1.3 million to Globo TV of Brazil, which plans to use Intelsat until Brazil's satellite is launched in 1985.

A History of Innovation

- 1954** Private broadcasters establish Broadcast News as their national news agency with French and English printer services.
- 1960** BN Voice becomes world's first national audio service.
- 1970** BN establishes first national Cable television news services—still the only one in Canada.
- 1973** BN turns up first fully computerized news agency operation—in both languages.
- 1975** BN launches first French-language audio service and cable news service.
- TODAY** BN is leading efforts to obtain access on reasonable terms to satellite facilities for all private broadcasters.

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CJFX INSTALLS NAUTEL ALL SOLID STATE TX

The world's first totally solid state 10 kw AM broadcast transmitter went into operation at CJFX Antigonish, N.S., on February 19, 1982.

The AMPFET 10, manufactured by the Nova Scotia firm Nautel (Nautical Electronic Labs Ltd.), claims a number of unique engineering features designed to provide trouble-free operation, and 74% efficiency resulting in savings up to 60,000 kw hours per year.

Dave MacLean, manager of CJFX, reports that the transmitter, which replaces a 17-year-old RCA unit, is "impressive"—extremely quiet and drastically smaller in size: a standard 24" panel cabinet, 78" high, plus a small cabinet housing the step-down power transformer. An official inauguration ceremony was held on March 28.

SATEL TVRO FOR CBC

Satel Consultants Ltd. has won a CBC contract for TVRO facilities at CBOT's Lanark Avenue production studios in Ottawa. A 4.6-metre dish will be used to receive both TV and radio signals.

Satel, an Ottawa-based firm, has recently expanded its line of manufactured products to include a TV cable modulator and companion satellite radio package.

TOWER PROJECTS UNDER WAY

A new transmitter site is being developed on Mount Seymour for Vancouver's CHAN-TV, as a result of the provincial government's denial of continued use of the existing site on Simon Fraser University property at Burnaby Mountain. The new location will be shared by CKO-FM and CJAZ-FM, with CJAZ sacrificing coverage on Vancouver Island to improve reception in Vancouver, where problem areas have existed since the station went on the air from Saltspring Island in 1980.

Tennaplex Systems Ltd. expects that installations on 3,000-ft. Mt. Seymour will be completed during the fall. A 300-ft. tower will provide apertures for a

16-bay TV antenna, two 6-bay FM antennas, and broadband services, with room for future expansion.

Tennaplex is also working on two other major projects where stations are being co-sited.

At Edmonton, the 707-ft. tower of CKRA-FM will be shared by the city's two newly-licensed FMs, CISN and CJAX. CKRA built the tower in 1979 with capacity for three stations, and more could be accommodated in the future. The current project includes expansion of the transmitter building.

The three 25 kw signals will be combined using a Kathrein combiner and an 8-bay antenna, one of the largest in Canada. Features include true circular polarization with the same sense of rotation in all azimuths, double-phased compensated antenna with no de-icers required and low VSWR under all weather conditions.

At Chicoutimi, Radio-Québec's CIVV and CKRS-TV Jonquière are sharing the same antenna, although each station has a different directional pattern. The Mont-Valin site eliminates the need for CKRS-TV's four rebroadcasters, freeing their channels for other services.

Ottawa-based Tennaplex is also installing Radio-Québec facilities at Baie-Trinité and Sept-Iles.

TV STATION USES FIBER OPTIC LINK

A Hartford, Connecticut, station has found fiber optic cable to be an excellent alternative to coaxial cable for the relay of video signals.

WFSB's fiber optic link was first installed in November, 1980, and has been in continuous use since August, 1981. It relays signals from microwave receiving dishes, located in the penthouse of a nearby 20-storey building, to the studios some 1200 feet away.

A pair of 3-fiber optical cables capable of accommodating 36 channels was installed by station engineer John Reno because the existing conduit system did not allow sufficient expansion using coaxial cable. Present uses include ENG, remote off-air broadcasts, satellite and STL/TSL links.

An opto-electronic transmitter sends composite video and audio signals over the 1200-ft. cable to a receiver in the station's master control room. The signals are then converted from optical analog pulses to electronic signals for processing and transmission.

DELCO TESTS AM STEREO

The Delco division of General Motors is testing the four AM stereo systems (Harris, Kahn, Magnavox, Motorola) and

expects to announce its conclusions by early August. Delco, which manufactures the radios used in GM vehicles, estimates it will then take another 12 to 24 months before cars with AM stereo receivers are available.

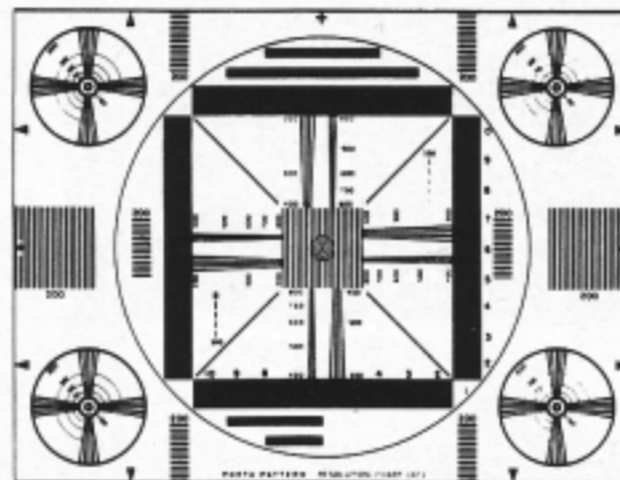
Meanwhile, Motorola has offered to license its Compatible Quadrature (C-QUAM) AM stereo system to any manufacturer. Agreements would allow unlimited production, without royalties, after an initial payment to Motorola for testing and approval of each model of excitor and/or transmitter-modulation monitor.

HOME TVROs FOR DBS

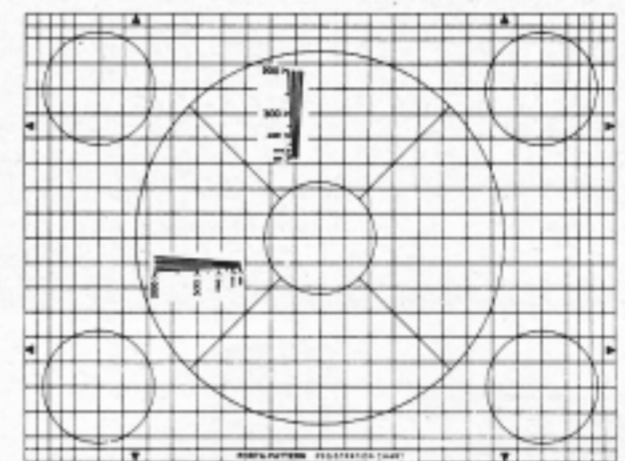
A new U.S. company has been formed to assemble and market home receivers for Direct Broadcast Satellite (DBS) programming.

Alcoa-NEC Communications Corp. is 51% owned by Aluminum Company of America and 49% by Nippon Electric of Japan. Units will consist of a low-noise converter (LNC), receiver/demodulator, and dish ranging from .75 to 1.8 meters (2.5 to 6 feet) in size. DBS programming is expected to be launched on a large scale in the U.S. by the mid-80s.

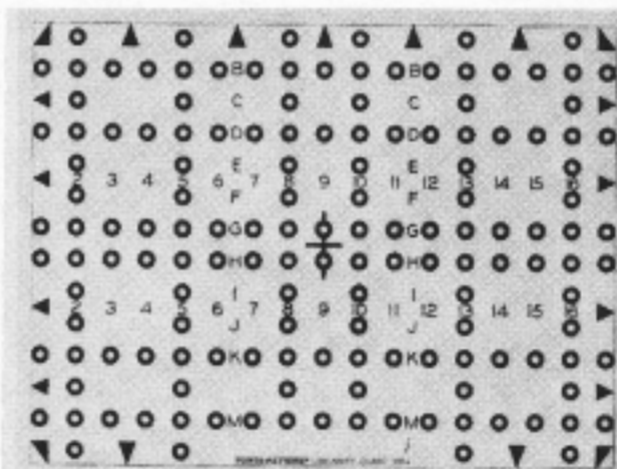
PORTA—PATTERN TEST CHART SYSTEMS



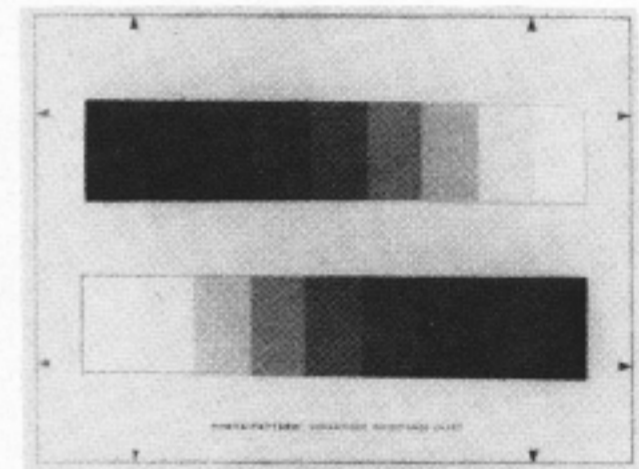
RESOLUTION IMAGE



REGISTRATION IMAGE



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BROADCAST BEAT

by Phil Stone

The world of broadcasting is, in a way a mercurial one. It is never constant, never guaranteed to be the same on Monday as it was on Tuesday, or the same in November as it was in May. It is a demanding, challenging, flirtatious, enticing lady of whom we are never totally sure—but one who, rewardingly, never bores us, never keeps us less than alert and aware. Sometimes stymied, always stimulated. It is why people like **Dick Smyth** and this writer have said, "I love broadcasting like a man loves a woman." And it is why there is always news about it and its people. The action—a columnist like yours truly is grateful to report—is ever constant. Because of our press dates, some of that which you read here may be familiar to you, other parts not. It will vary from reader to reader. Advertising agencies sometimes define TV as "the primary medium" and radio as "the reminder medium". For some, *Broadcast Beat* will serve both roles—telling something for the first time, or reminding of something forgotten. In the vein, then, here's what has happened since the last edition of *Broadcast Technology*.

CKO-FM Toronto moved out of its Adelaide Street quarters to a spanking new situation in the Carlton Inn at 30 Carlton, near Maple Leaf Gardens... **Gordon Ferris** mourning the passing of his wife, **Jean**... And it was sad indeed to hear of the passing of **Christina Turnpenny**, wife of Rogers' vice-president of engineering, **Ron Turnpenny**. She was a warm and vital person whom many will miss at the CAB-CCBA conventions... The Telemedia group of companies announced some appointments: **André Bureau** to president of Telemedia Ventures; **John Van de Kamer** to president of Telemedia Canada (publishing and broadcast operations); **Pierre Morrissette** to senior v.p., finance/administration; and **Normand Beauchamp** to president of Telemedia Communications broadcast group... *A fellow who adored his mother met a girl who looked and cooked, talked and walked like his mother—there was only one problem: his father couldn't stand her...*

Leiff Petterson, who was a wide receiver for the Saskatchewan Roughriders and Hamilton Tiger-Cats, a veteran of the CFL for eight years, replaces **Mike Wadsworth** as color man on CTV football coverage. Wadsworth moved to a big job in the U.S.... McKim Advertising now has a PR division headed by **David Lamb**, former v.p. at Quantum... In our May/June column, we wrote that **Dave Hodge** and CFRB had parted company; it made headlines in To that RB's sister station, CKFM, picked him up to handle sports features... At last report, the new Edmonton FM, CJAX, is to go on-air September 29... **Andy McDermott's** rep firm moved to more spacious quarters at 22 Davisville, Toronto. Did you know that young Andy wrote sports for the Regina Post, then was radio editor for the Regina Star? Probably why he does such a fine job of covering industry news in the Broadcast Executives Society newsletter... And in earlier days, **Emery Richmond** was an engineer for the CNR. (A pox on the first fellow who cries, "So that's where he got his training!")... It was in 1951 that **Gerry Acton** joined CAB as a recording operator, and he's still there, now in an executive capacity—dedicated, efficient, loyal and

hard-working. Might be very fitting to honor him for his contribution to our industry... Don't think **John Ansell** needs the work, but if you're looking for someone to cover hockey or baseball, John used to be a very good PA man in Vancouver...

Don McPherson, president of First Choice Pay-TV, anticipates subscribers will pay \$12 per month, with cable companies getting \$4.50 of that amount... **Bernard Luciano** now a v.p. at Leo Burnett... CKEY and CKO both tried to get the radio play-by-play of Toronto Maple Leaf hockey, but Hewpex, with CJCL as anchor station, was renewed for another two years... **Louis-Eric Vallee** promoted to account director at Y&R, Montreal... Sicom Ltd. now has a Pay-TV division with **Ilana Frank** as v.p., programming... **Reuben Frank**, now president of NBC-TV News, has a Canadian background: he was raised and went to university in Toronto, where his father was publisher-editor of The Jewish Standard... Serving renewed terms on the Radio Bureau's board are chairman **Tony Viner**, now with Rogers, **Norm Haines** and **Ross McCreath** as vice-chairmen, and **Elmer Hildebrand**, the world's greatest secretary/treasurer! New directors include **Bruce Hawkins** of Paul Mulvihill, **Paul Ski** of CFUN and **John Wright** of CKLC... In Quebec, women comprised 38% of the 1981 audience for regular baseball games and 40% for the World Series; more women than men watched the Grand Prix on TV, and for soccer, women were 47% of total viewers... *Another statistic: more people are giving up drinking tomorrow than today...*

Vin Dittmer writes to say that while it is correct—as we itemed in BT—that he became chief executive officer at Multilingual TV in Toronto, he also continues as g.m. of CHAY-FM Barrie...

There's a secretary in a TV station I know who is always using four-letter words: can't, won't, don't, stop... Our weekly interview program, *Arts in Ontario*, presented by the Ontario Arts Council over some 24 radio stations, was renewed for yet another year. We started it in October, 1975, and now have a Toronto outlet, CKO-FM... And we've now completed our latest assignment for the Radio Bureau: gathering case histories from ad agencies of successful radio campaigns. **Larry Heywood** is putting together a presentation out of it all that ought to be interesting and valuable for broadcast advertising... The 1982 CAB-CCBA convention, to be held November 14-16 at the Toronto Sheraton Centre promises to be the best ever... **Jim Nelles** joined All-Canada TV as sales rep... **Marty Teplitsky** became executive producer at FC&B... Ill health has plagued some Standard people: **Bob Reinhart** is recovering from what is described as a life-threatening condition; **Don Insley** had open heart surgery; **Charles Doering** had an artificial eye implant to replace the left eye, blinded since 9 years of age when he was hit by a cricket ball in his native Channel Islands; and **Irene Wilson**, right-hand to **Betty Kennedy** for many years, underwent surgery... **Pat Kiely**, by the way, went to St. Catharines to help out at CKTB/CJQR-FM during Bob's illness... →

Peter Sisam, long a stalwart as v.p. at Selkirk, moved to CTV as v.p., marketing...**Diane Legris** left the Quebec cable association to join Cable TV, Montreal, as v.p., programming...**Rick Hunter**, CFTR research director and weekend on-air personality, appointed assistant p.d....Old friend **Gord Atkinson**, certainly **Bing Crosby's** most able and prolific biographer, had his award-winning anthology *The Crosby Years* accepted into the hitmaker's section of the prestigious *Songwriters Hall of Fame*. Gord is g.m. of CFMO-FM Ottawa...At CJAD Montreal, **Gordon Sinclair Jr.** was appointed director of news and information, and **Joe Cannon** is a recent staff addition...CFRB newsman **Hal Vincent** was re-elected secretary of the Ontario Legislature press gallery...*An automobile salesman is now selling furniture for a living. His own.*

Congrats to **Al Slaight** on the occasion of CFGM's 25th anniversary...**Don Johnson**, who graduated from Ryerson's Radio/TV course this year, is the son of **Al Johnson**, until recently president of the CBC...Same CBC has decided to drop the **Bob McLean** show after seven years; a 25-year veteran of TV, McLean may show up elsewhere on camera, but more likely will get into production, an area in which he has much expertise...**Larry Robertson**, a former sportswriter from Burlington, is the new information officer at the Canadian Football League, succeeding the retired **Gord Walker**...Atari expects to sell \$400 million in coin-operated video games, \$1,300 million in home video consoles and cartridges this year. Atari is world's largest supplier of these items...**James Welcher** has moved from radio sales to be senior rep at Hebdos A-1 Weeklies...**Bob Holiday**, former CFTR news director, joined CJCL Toronto as director of programming and operations...**Mike Koskie**, president of the revamped Vickers & Benson agency, is a son-in-law of the legendary **Ken Sobel**...**Mike Hojo** promoted to g.m. of Sony's magnetic tape division...Thanks to **Dale Schwartz** for sending CFMO's newsletter, from which we learned that **Joan Gordon** went to

PR at CBC and **Gary Ryan**, one of our Humber students who was with CKNX Wingham for a while, joined 'MO in Ottawa...We were sorry to learn of the passing of **Jimmie Shields**, one of Canada's great entertainers, and of **Olive Brown**, an American who lived and performed in Toronto for many years; we had the privilege of knowing and working with both of them...**Phil Parker**, manager of CKGM, elected a director of Montreal's Ad & Sales club...The past TV season, from October to the end of April, revealed that in the United States the three major networks lost some one million viewers, many of them to Pay-TV and video cassettes...**Jean-Pierre Mongeau**, formerly an adviser to the minister of communications, was made a full-time CRTC commissioner...**Bob Bratina**, who did the Hamilton Tiger-Cat games, took over from **Dave Hodge** as Argo play-by-play announcer...**Norman Woods** is now v.p. of the Institute of Canadian Advertising...**Sam Hephcott**, once a child actor on BBC, was made distribution manager for CBC Enterprises...**Keith Crombie**, who founded Crombie Advertising in the mid-40s after a career with McConnell, died at age 80; he'd been retired for the past ten years.

Phyllis Switzer will lessen her role in CITY-TV to spend more time in Palm Springs with her husband, engineering consultant **Sruki Switzer**...**David Jackson** becomes director of purchased programming, and **Nancy Smith** director of advertising and publicity at CITY...Fraser Valley's excellent newsletter, *Dial-Log*, has a new quarterly format...Moffat Communications bought 85.5% of Florida Satellite Cable, which has the franchise for 12,000 homes near Tampa; also owns 85.5% of Kingwood Cablevision near Houston...**Ron Andrews**, long the NHL's demon statistician, was selected as sports director for Standard's new station in Ottawa, CJSB. I have a story about Ron: In the 50s, when Ron was with CP and I was with CHUM, we were two of the mad media people who agreed to participate in an ostrich race. That's right, an ostrich race—a publicity stunt staged by the promoters of stock car racing at the CNE grandstand. We sat in a little cart, a smaller version of the sulky used by harness race drivers, and took off. My bird tried to go into the stands and frightened the living daylight out of the patrons; by the time I managed to get it back on track, Ron was ahead and finally won by a beak for the prize of \$25!...The major audience for radio in the U.S. is now 25-39, and many experts credit FM with that change...CKY-TV switched reps from All-Canada to Alexander, Pearson & Dawson...**Bill Hunt** of Grand River Cable TV is chairman of the Ontario Programmers Association...From Timmins comes word that **J. Conrad Lavigne** continues to be active in the industry as a consultant and executive of Tele-Capitale, the Quebec City firm that runs CFCM-TV and affiliates in the lower St-Lawrence area, CKMI-TV, CHRC-AM and CHOI ("choice" *en anglais*) on FM. Conrad started CFCL in Timmins 30 years ago. "Once a broadcaster..." *Closing thought: Only North Americans have mastered the art of being prosperous, though broke...*

Our thanks for all your letters—here's one we thought you'd enjoy seeing:

I'm dropping this note, Phil, just to let you know how much I enjoy reading your column *Broadcast Beat* in *Broadcast Technology*.

Every so often you mention someone who I have met over the years and it keeps me up-to-date on what they're doing.

Someone said to me the other day, "We don't see you much, anymore, Orv," and I told them that I was between the 3rd and 4th stage in my broadcasting career. The first stage, "Who is Orv Kope?" The second stage, "Get me Orv Kope." The third stage, "Get me a young Orv Kope." And the fourth stage, "Who the hell is Orv Kope."

I will look forward to future issues and your newsy items.

Regards,

*Orv Kope,
CHAT, Medicine Hat, Alberta.*

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appointments

• ABC Radio Enterprises—**Jeffery R. Svenningsen** named manager of technical facilities, including new office/studio construction at 1700 Broadway, NYC.

• CBC—recent appointments include **Bill Morgan** to director of TV news and current affairs, succeeding **Mike Daignault**; **Eric Friesen** to head radio features; **Adam Litzinger** to manager, TV network sales.

• CCTA—**Roger Poirier** named director of engineering. With the Department of Communications since 1972, Poirier has headed Cable TV Standards & Practices since '77. He replaces **George Cormack**, who is joining the University of Alberta.

• CHOO Ajax, Ont.—**Bob Burr** to sports director.

• CTV—**Peter N. Sisam** to v.p., marketing; **Alex Semeniuk** to manager, marketing services.

• DOC—**Alain Gourd**, former president of Radio Nord and most recently president of Radiomutuel, named senior assistant deputy minister, policy.

• Digital Video Systems—**John Lowry** is now chairman, with naming of **Abe Rolnick** as president. **Keith Lucas**, formerly of Independent Broadcasting Authority in U.K., has joined DVS as manager of engineering.

• McCurdy Radio Industries—**Jon Young** promoted to sales manager, replacing **Stan Maruno**, now a principal of Watkins & Associates (see *Business Report*).

• Modulation Associates—**Warren Bacigalup** named production manager, with California firm reporting a 400% increase in production since last fall.

• Moseley Associates—promoted are **Fred Zimmermann** to v.p., g.m., and **Charles F. Rockhill** to v.p., sales/marketing.

• Opex Communications—**Robert Cole** named executive v.p.

• RCA—promoted are **Dennis J. Woywood** to division v.p., Broadcast Video Systems, Camden, and **Dr. Robert Hopkins** to managing director, RCA Jersey Ltd., U.K.

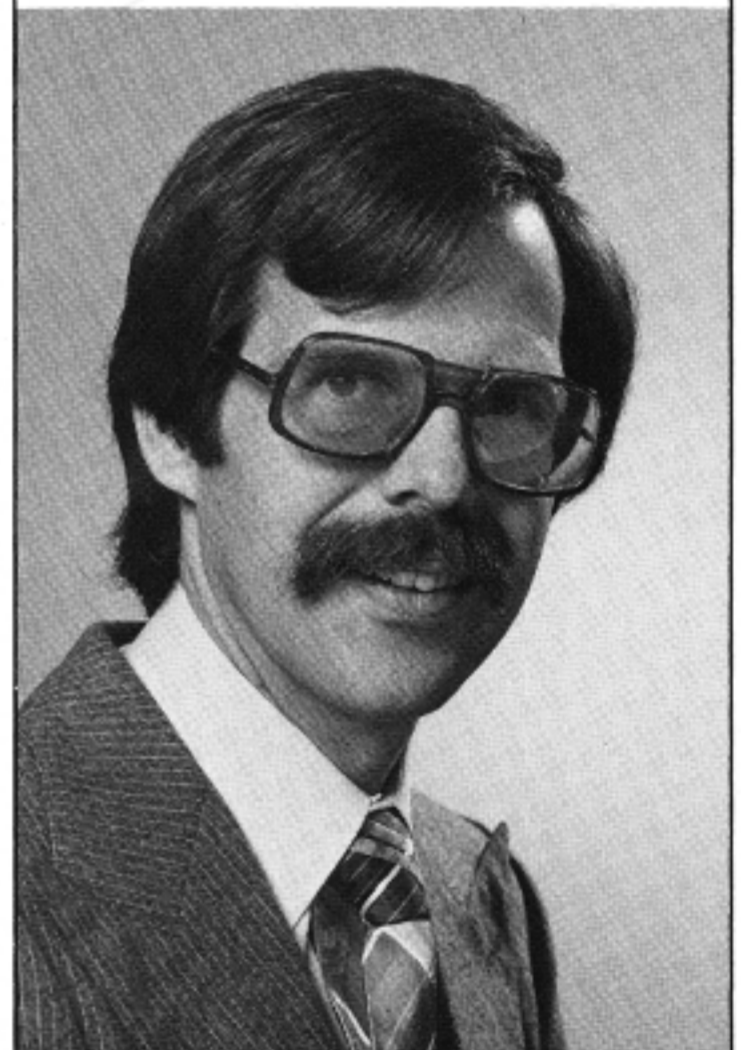
• Richardson Broadcasters—**John E. Mackey**, previously g.m. at CKGM/CHOM-FM Montreal, named v.p., g.m. and p.d. of CJBK London; **Jim Boyle**, executive v.p., continues as g.m. of CJBX-FM and sales manager for both stations.

• Shure Bros.—formerly with E-V, **M. Travis Ludwig** named technical coordinator, distributor microphone products.

• SMPTE—editorial v.p. **Maurice L. French** has announced the appointment of **Jeffrey B. Friedman** to editor, SMPTE Journal. Friedman, with SMPTE since 1964, succeeds **Jack Christensen**.

• Times Fiber—**John E. Magnusson**, previously an engineer with Collins Radio and other firms, named marketing manager for communications/RF cable products.

APPOINTMENT NOTICE



Stephen Cook, President of Arri/Nagra Inc. is pleased to announce the appointment of Dr. J.G. (Joseph) Sunday as Vice President Financial/Marketing. Since our product range has become too diverse and extensive to be adequately controlled by one sales manager a new marketing policy was established. In his new capacity Joe will direct a team of product managers, thus serving our clients expertly and representing our suppliers well. The appointment was effective March 1, 1982.

News service expands: SBN WORD-PROCESSING ADDS PRINT TO AUDIO

A sophisticated word-processing system, developed by Cybernex Limited, is replacing typewriters in the Ottawa and Toronto newsrooms of Standard Broadcast News.

SBN is first and foremost an audio news service, which supplies voice reports to some 60 subscribing radio stations across Canada. In recent years, these subscribers found there was a growing need in their newsrooms for printed copy to supplement the audio clips.

Sid Margles—former general manager of SBN, who is now heading up Standard's new Ottawa radio station, CJSB (target date September 1)—describes how this additional service has developed.

"In 1976-77, Standard Broadcast News introduced print-outs of billboards and other information related to our audio

news service. This information was sent from our bureaus in Toronto and Ottawa utilizing Hazeltine Mod One Video Display Terminals, and received by each subscribing station on Extel printers, tapped in across the audio line." (*Editor's note: A useful circuit to reduce audio levels while the printer is functioning on this data/voice line is described by Bob Calder in our May/June/82 issue, page 49.*)

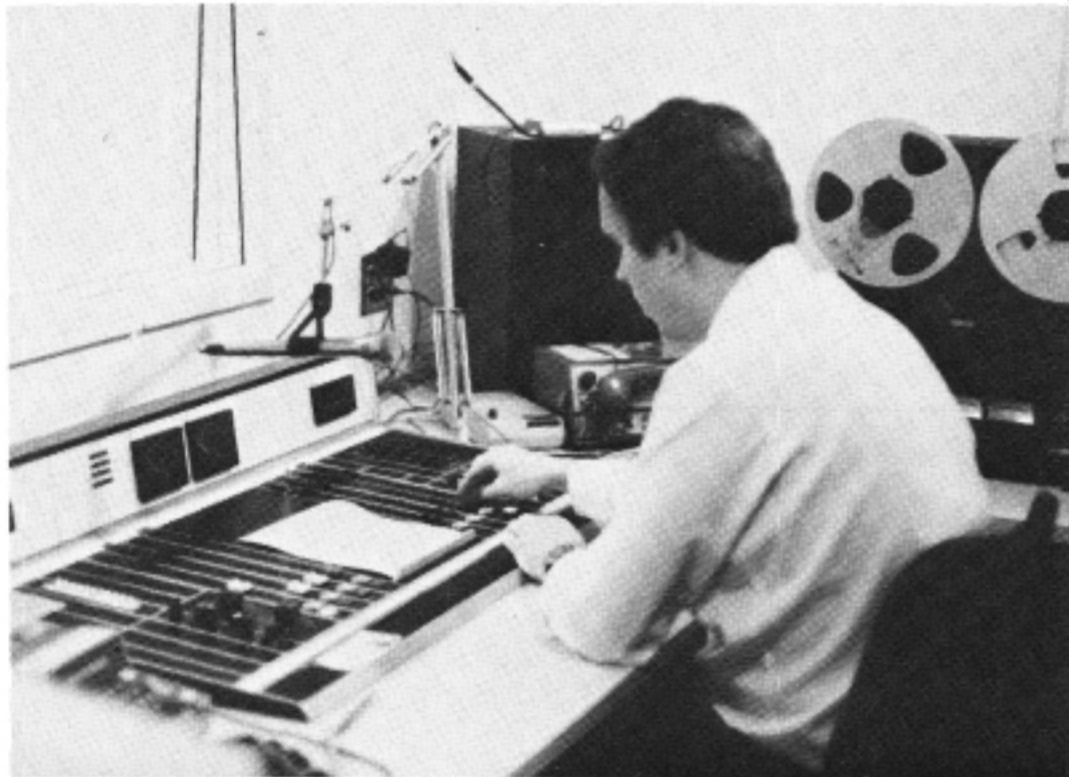
"At the request of subscribers about two years ago, we began to investigate the possibility of sending the scripts of all Ottawa-originated stories to assist stations in preparing their newscasts. We experimented with the existing equipment, saw that the principle was good, but we needed to expand the system.

"We investigated a variety of possibilities, and with the cooperation of Ottawa-based Cybernex Limited, we

came up with the concept of eliminating typewriters for the reporters, and developed a sophisticated word-processing scheme which has as its core a micro-processor with 64K storage capacity on a chip. (Cybernex is a 100% Canadian-owned manufacturer of terminals and microcomputers, using their own hardware and software.)

"Five screens were supplied as part of the package and after only a couple of hours of 'dry runs', the old and trusty Underwoods were set aside for use only to fill out expense forms and perhaps to type a personal letter.

"Plans call for further expansion of the SBN word-processing facility to allow Toronto's central distribution centre to also expand its current capacity, so that transcripts can be sent to subscribers along with the audio reports."



Wayne Brown, parliamentary correspondent, in SBN control room.



View of work station with video display, keyboard and printer.



Parliamentary correspondent Chris Gaynor at work station.



Studio for guest interviews at SBN's Ottawa news bureau.

crtc

APPLICATIONS

The following is a partial list of recent CRTC hearings and applications considered.

Winnipeg—April 20, 1982:

- Canwest Broadcasting, for channel 13 at Rembrandt, Manitoba, 73.3 kw ERP, to rebroadcast CKND-TV Winnipeg.

Halifax—May 3, 1982:

- CBC, for FM at Sydney, N.S., 100 kw on 97.1 MHz, ex-CBI, and at Digby, N.S., 980 watts on 104.7, ex-CBAF; and for TV at Fredericton, N.B., 4.2 kw on channel 19, ex-CBAFT.

St. John's, Nfld.—May 6, 1982:

- Two applications for 1340 kHz AM at Corner Brook, Nfld., by Douglas E. Alteen and Western Broadcasting Ltd.

- Radio CJYQ 930, for FM at St. John's, 100 kw on 98.3.

Vancouver—May 11, 1982:

FM PROPOSALS FOR NORTHERN B.C.

- CKPG Prince George, for a second transmitter of C101-FM at Prince George, 900 w on 100.5 MHz, plus SCMO facilities, with a rebroadcaster at Quesnel on 103.3 originating 3 hours of local programming daily.
- Prince George Broadcasting (CJCI), for 11.48 kw on 94.3 at Prince George, with a rebroadcaster at Vanderhoof. CFBV Ltd. proposes further rebroadcasters of Prince George at Burns Lake, Houston and Smithers, with some local programming originating in Smithers.
- Great North Broadcasting, for 101.9 at

Prince Rupert, with rebroadcasters at Masset and Sandspit; and Odd Eidsvik for further rebroadcasters at Terrace and Kitimat, with some local programming from Terrace.

- Skeena Broadcasters Ltd., for 103.1 at Terrace, with rebroadcasters at Prince Rupert, Kitimat, Smithers, Houston, Burns Lake, Masset and Sandspit.
- Twin Cities Radio (CFJC Kamloops), for 103.3 at Quesnel, with programming from Kamloops and Williams Lake, plus SCMO.
- Caribou Broadcasters (CKCQ), for 103.3 at Quesnel, with rebroadcasters at Mt. Milburn, 100 Mile House and Williams Lake.

Other applications:

- N.L. Broadcasting (CHNL Kamloops and 5 other locations), for transfer to Fraser Valley Broadcasters (CHWK Chilliwack).
- CBC, for Travellers Information Service at Allison Pass and Chetwynd, 1490 kHz, in cooperation with B.C. government.
- CJAZ-FM Vancouver, for change of facilities from 52 kw, 92.1, on Saltspring Island, to 46.85 kw, 96.9, on Seymour Mountain.

Edmonton—June 9, 1982:

- Five applications for 1580 kHz at Edmonton: CJIL Broadcasting, CKCA Communications, Patrick J. McKenna, Radio QR Ltd. of Calgary, and Robert E. Redmond of St. Catharines. CJIL is for 25 kw, all others for 50 kw. Previous applications by Radio QR and Redmond were denied last fall.
- Two applications for Canmore, Alta: Alpine Broadcasting (1230 kHz), and Calgary Broadcasting (1450 kHz, with a rebroadcaster at Banff on 1340 kHz).
- CSL Broadcasting for 980 kHz at Sherwood Park, Alta.
- CKDQ Drumheller, for a power increase to 50 kw.
- Arctic Radio, Regina, to acquire CKOM Saskatoon; Doug O'Brien, to acquire CFAR Flin Flon CJAR The Pas and CHTM Thompson, Man., from Arctic Radio.

Hull—June 15, 1982:

- CBC, for FM at Rouyn-Noranda, 1 kw on 99.9, and Val d'Or, Que., 35.7 kw on 101.1, both ex-CBM.
- CJPM-TV Inc., Chicoutimi, for transfer (100%) to Télé-Métropole Inc.
- Multilingual TV (Toronto) Ltd., for share transfers which resulted in increased holdings by Dan A. Iannuzzi from 38 to 55%. MTV failed to obtain prior approval for numerous share transfers since 1978, in violation of its licence conditions. →

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At BCB we specialize in the pre-planned approach, and we go several steps further. We avoid equipment that locks you in to one particular manufacturer. We seek out high-tech suppliers who offer more features at better prices. We develop advanced technology in those areas that do not already satisfy our high standards. And we manufacture several key production components at prices well below the imports.

We design your facility with you, install it, train your operators, provide complete servicing, and keep you advised of design updates as they occur.

And, we take particular pride in supplying demonstrably superior equipment including the EA-3x Editing System and the System One Computer Graphics Creative System. They substantially outperform all competitive systems and they're designed to stay that way!

When we give you the keys to your facility our service hasn't ended, it's only just begun!

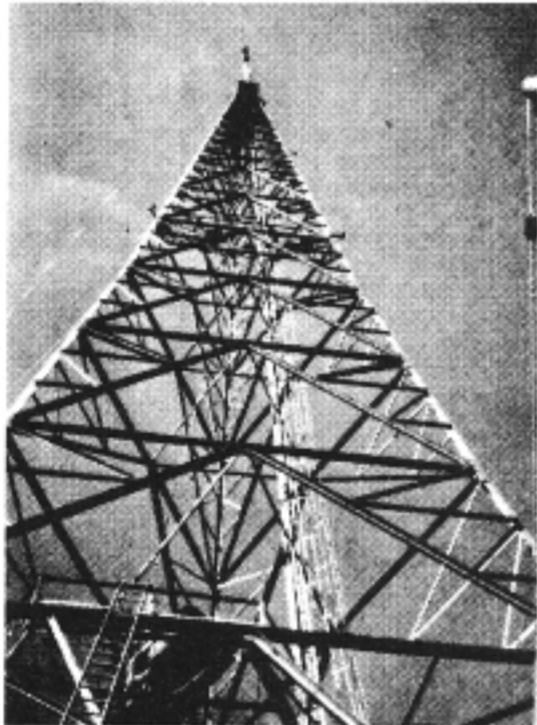


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Canada LOP 1A0. (416) 857-0790.

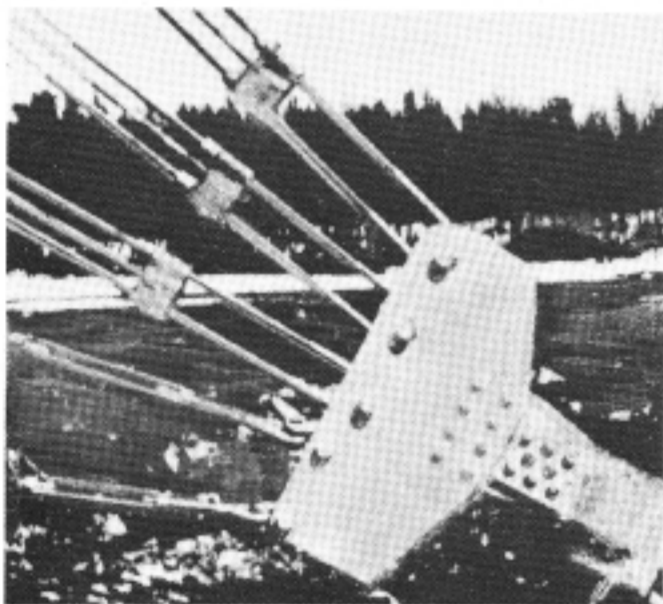
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Kitchener, Ont. N2G 4A6
(519) 744-2291 or (416) 823-7411
Telex-069-55284

In Quebec
425 Place Galerneau
P.O. Box 7262
Charlesbourg, Quebec G1G 5E5
(418) 628-3523

Circle #256 on Reader Service Card.

CRTC

DECISIONS

AM Radio

The following applications have been approved:

- CHTN Charlottetown, P.E.I.—transfer to 8 shareholders, with station manager Wayne MacArthur holding 51% control.
- Radio CHNC (New Carlisle) Ltée—rebroadcaster at Murdochville, Que., 50 watts on 1450 kHz.
- Télémedia Ltée—addition of 9 stations to network.
- CHYR Leamington, Ont.—night power increase to 1 kw.
- CKAN Newmarket, Ont.—transfer of control to Peter E. O'Rourke (52.3%).
- CKGB Timmins—change of tx site.
- O.K. Radio Group Ltd.—transfer (100%) to CKER Radio Ltd., Edmonton.
- CIOK St. Paul, Alta.—transfer from O.K. Radio Group to L.W. Broadcasting Ltd., controlled by J.L. Blundell and D.W. Williams (CKKR Rosetown, Sask.). New call letters will be CHLW St. Paul, with its rebroadcaster in Grand Centre CILW.

FM Radio

The following new FM stations have been approved:

- CBC Carmanville, Nfld., 1.7 kw, 92.5 (ex-CBG)
- Yarmouth, N.S., 1.18 kw, 107.3 (ex-CBAF)
- Little Current, Ont., 21 kw, 97.5 (ex-CBCS)
- Timmins, Ont., 46.6 kw, 97.1 (ex-CBON)
- Brochet, Man., 41 watts on 105.1 MHz
- Shamattawa, Man., 41 w on 105.1
- Poplar River, Man., 84 w on 103.5
- Low-power stations, to native organization at the Eskasoni Indian Reserve, N.S. (44 w. on 99.1), Old Crow, Y.T., Schefferville (2) and four other locations in Quebec.
- Diffusion communautaire Baie des Chaleurs Inc., 45.6 kw on 94.9 MHz at Carleton, Que.

Power decreases:

- CBCP-FM Peterboro, Ont., to 10.4 kw
- CBUF-FM-7 Dawson Creek, B.C., to 70 watts on 93.7 MHz
- CBYS-FM Sparwood, B.C., to 148 watts on 105.7.

Site changes:

- New FM licensed to Midwest Broadcasters, Regina, will share CBC tower 5 km east of city.
- CHFA-FM-8 Medicine Hat, Alta.
- CJAX-FM Edmonton, with power increase to 100 kw (omnidirectional).
- CFRO-FM Vancouver, B.C., to Mt. Seymour, with power increase to 5.5 kw.

Denied: Radio du Golfe Inc.—rebroadcasters at Murdochville, Grande-Vallee, Marsoui and Mont-Louis, ex-CJMC Ste-Anne. A competing bid by CHNC for AM at Murdochville was approved; also, three of the proposed FMs presented "serious technical problems" by exceeding DOC standards for low-power installations.

Television

HALIFAX TV DENIED

Proposals for a third TV station in Halifax, N.S., have again been rejected by the CRTC.

In December, 1978, the Commission denied a second licence at ATV, owners of CJCH-TV, on the grounds that the region could not support another station. The same reason was given in the denial of the most recent applications by ATV, C.A. Patterson and New Brunswick Broadcasting (CHSJ-TV Saint John). Atlantic TV was also told that its ATV-2, a cable service delivered by satellite, was not an acceptable substitute for a local station. Halifax area cable TV systems will now be permitted to carry ATV-2, now that the question of another local TV station has been decided.

- Also denied: Western Manitoba Broadcasters Ltd. application for a station at Portage La Prairie, 287 kw on channel 13.

Approvals:

- Newfoundland Broadcasting Co.—5-watt VHF rebroadcasters have been approved for 28 locations, 27 to be fed via satellite for a 2-year experimental period.
- ATV—rebroadcasters at Sheet Harbour (480 w, ch. 2) and Marinette, N.S. (16 w, ch. 69), ex-CJCH-TV; also St. Edward, P.E.I. (470 w, ch. 5), ex-CKCW-TV.
- CIMT-TV Rivière-du-Loup, Que.—power increase to 24.9 kw, also rebroadcaster at Baie St-Paul (10 w, ch. 13).
- CBC—rebroadcasters at Little Current, Ont. (59 kw on ch. 16, ex-CKNC-TV Sudbury), and 10 other locations (low-power transmitters); also approved was acquisition of rebroadcasters at Elliot Lake, Ont., and Malartic, Que., from J. Conrad Lavigne Ltd.
- Cambrian Broadcasting Ltd.—decrease in ERP to 70.5 kw, with change of tx site, approved for CKNY-TV North Bay, Ont.

Cable Television

New Systems Approved:

- Debert, N.S.—C. Norman Crosby plans to interconnect with Eastern Cablevision Ltd., Truro.
- Fundy Cablevision Ltd.—for Siegas, Riviere Verte and Ste-Anne-de-Madawaska, N.B.
- A.C. Weatherby—for Back Bay, Deer Island, Lords Cove, Lambertville, Richardson, Leonardville, Wilson's Beach, Welshpool, Campobello Island and North Road, N.B.
- Island Cablevision Ltd.—for Georgetown, Montague and Souris, P.E.I. (Application by E.C. Hunter-Duvar for Montague denied.)
- Markdale, Ont.—D.J. and S.N. Armstrong.
- MacGregor, Man.—Portage Community Cablevision.
- Capital Cable TV Ltd.—for Redwater, Bruderheim and Lamont, Alta., also extensions to its Edmonton system.
- QCTV—for Bon Accord and Gibbons, Alta., also Cardiff Echoes, an extension of its Morinville service area.
- Skeena Broadcasters Ltd.—for Houston and Smithers, B.C.

Also approved: Transfer of Wawa Cablevision Ltd. to Lakeshore Community TV Ltd.

JULY/AUGUST 1982

MSC newsletter

Kahn leads in AM stereo

Canadian interest in AM stereo has increased sharply following the US FCC "marketplace" decision.

Because the five competing systems are not compatible with each other, the impressive list of stations which are already committed to the Kahn/Hazeltine system makes this system an early leader in the race to become the worldwide standard.

The Kahn/Hazeltine system is available in Canada from MSC Electronics.

Among Canadian stations who have granted permission to announce their plans to test and/or install Kahn AM stereo exciters are:

CHED (DOC tests)
 CKY (DOC tests)
 CKXL CJJ (CHAM)
 CKLG CHAB

Important points to the listener as well as the broadcaster when the Kahn/Hazeltine system is used include:

- Kahn AM stereo is completely compatible with existing mono receivers.
- The Kahn system does not reduce the distance over which the AM signal can be received.
- Stereo separation is up to 30 dB, as great as FM.
- Frequency response is as good as FM at up to 15,000 Hz.
- Owners of stereo component systems only need add an AM stereo tuner.
- Kahn AM stereo only adds a few dollars to the cost of manufacturing an AM/FM stereo car radio.
- AM stereo is not subject to the flutter interference experienced with FM when driving near tall buildings.
- Kahn AM stereo can be received on two separate mono AM radios by tuning the radios slightly to the right and to the left of the station.

Engineering reports from test stations, receiver manufacturers, and others have been extremely favourable to the Kahn/Hazeltine system. The following quotations are extracted from these reports.

Mono Compatibility

Sony (in reporting tests on all five systems): "Under the off-tuning condition, Kahn system exhibits the least deterioration of distortion, and most closely resembles the performance of monophonic reception during monophonic transmission."

Interference Characteristics

Moffat "...no increase in interference of CFAR was noticeable when CKY switched between monaural and stereo transmission."

Meredith: "It is apparent the only AM stereo system capable of long-distance sky wave reception ... insensitivity to co-channel interference is the Kahn/Hazeltine system."

Coverage

RKO: "In our opinion, stereo coverage using the Kahn/Hazeltine system is 100% of the monaural coverage."

Receiver Operation

ABC: "One of our skilled auditors reported that the reception of the AM stereo transmissions was of excellent quality and that the Kahn system produced audible results very nearly equal to that of some FM systems."

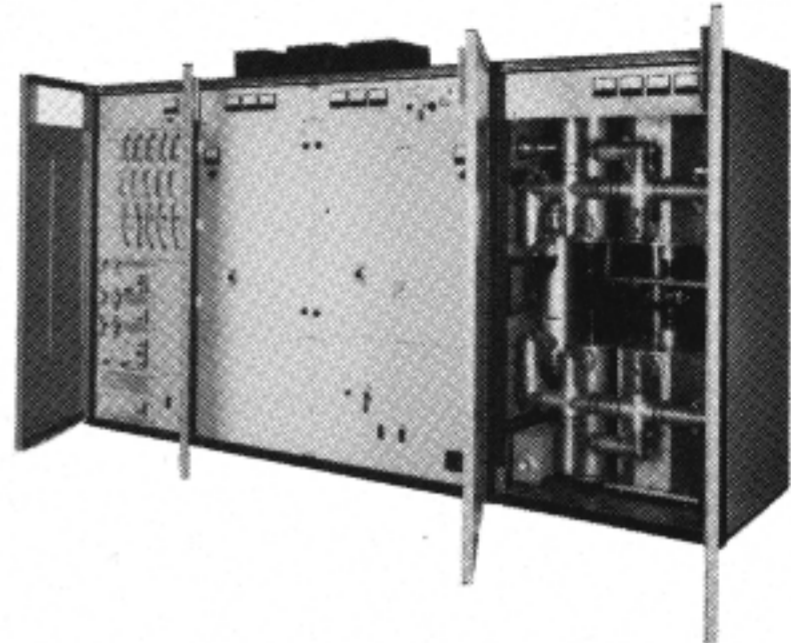
Synchronous Demodulation

Sansui: "Sansui believes that only three (Harris, Kahn/Hazeltine, Motorola) of the five proposed systems can take maximum advantage of synchronous detection."

Two Receiver Compatibility

Waterman: "A unique and valuable feature of the Kahn/Hazeltine system is that it allows stereo reception utilizing 2 conventional mono receivers."

Circle 37 on reply card



Integrated TV diplexer

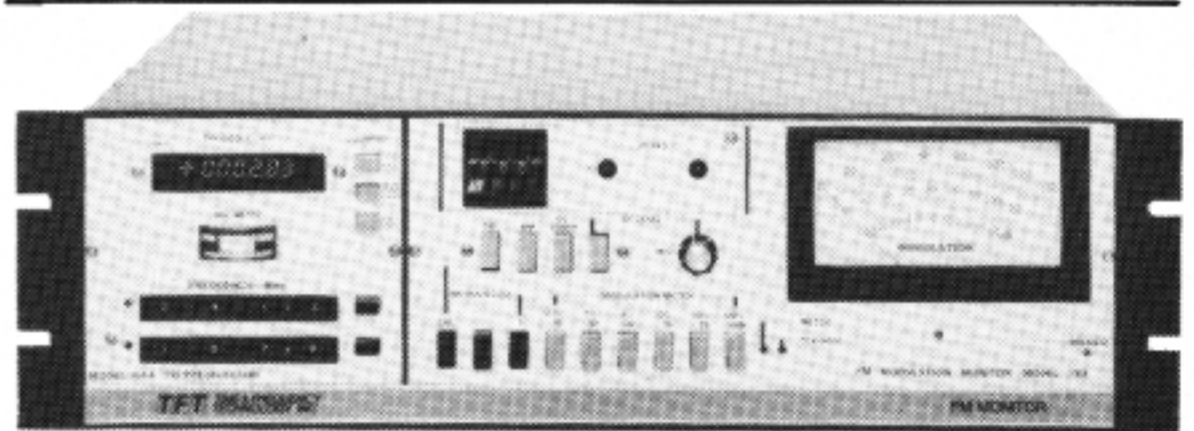
One of the features of the NEC line of TV transmitters which has particular appeal to many broadcasters is the fully integrated diplexer.

The cabinet housing the NEC constant impedance notch diplexer may be installed immediately adjacent to or apart from the transmitter cabinet, providing exceptional flexibility in installation.

The integrated diplexer offers a number of advantages:

- Reduced installation costs.
- Lower hardware costs due to elimination of need for various coaxial components such as mitred elbows and other rigid transmission line components.
- Versatility in location.
- Saves space.
- Neat appearance.

Circle 38 on reply card



This TFT monitor is popular with FM broadcasters.

Shively & TFT sales

The quality and performance of TFT monitors, control systems, and STL's and Shively antennas continues to make these products popular choices with FM broadcasters.

Complete FM stereo monitoring systems, remote control systems, and 960 MHz studio to transmitter links by TFT have been purchased by a number of stations in combination with Shively 6810-10 antennas.

Stations which have purchased most or all of the equipment listed include: the CBC; the new Telcomex Quebec City station CHIK; Telemedia's CTF also in Quebec City; and CKIK and CKRY in Calgary.

The CKIK and CKRY installation incorporates a single broadbanded Shively 6810-10 antenna with a combiner.

Circle 39 on reply card