

## CRTC Repeives CBC Atlantic AMs

The CRTC has wisely decided to leave CBH Halifax and CBD Saint John on the air for at least another year.

The Commission had previously set October 31, 1985, as the expiry date for the AMs, believing that after eight years of getting CBC Radio on both AM and FM, listeners would be accustomed to tuning FM. Not so. There was a great hue-and-cry, led by such notables at the premier of Nova Scotia, the city councils of both cities, and the director-general of the Coast Guard (who said that the lives of fishermen would be endangered if they couldn't pick up weather information on CBC-AM while out on the high seas).

The CRTC relented, claiming it merely wants listeners to have access to the best technical quality. The CBC is to survey the situation and report back to the CRTC within three months. CBC's director of radio in Halifax, Peter Loucks, told BT that one of the problems is the relatively low proportion of cars in the area having FM radios—54%. The transmitter of CBH (10 kw on 860), he admits, has a poor location and pattern. Loucks adds that no private interests have indicated they want to apply for a new AM, and if they did, better frequencies than 860 are available.

### Dave Rogers

We were saddened by the passing of Dave Rogers, executive secretary of RTNDA, whose obituary appears on page 59. Always obliging, Dave was very supportive of BT and our growing coverage of the area of broadcast news. In his recent book, Harvey Kirck relates that it was Dave Rogers who hired him—I'm sure many others benefitted from Dave's advice and encouragement, and as Phil Stone has commented, will remember him with affection...

## In this issue...

- For the past year or so, we've been receiving reports about Conus Communications in the U.S. A subsidiary of Hubbard Broadcasting, Conus has been successfully selling its innovative concept to TV stations, despite a hefty price tag. The story on this co-operative 'Satellite News Gathering' idea is on page 20.

- In Broadcast Education: The computerized newsroom has come to Seneca College, and Michael Monty tells us about it on page 34. It's good to see the colleges keeping up with technology, despite their limited budgets... And congratulations to the Humber College award winners—see *Ad Lib!* page 62.

- There was some interesting reaction to the *Technitopics* report on STLs (Sept/Oct/85). In the article, Sandy Day quoted a B.C. broadcaster who voiced a familiar complaint: the high cost of U.S. equipment in Canada. Two suppliers wrote (page 71) with their points of view, and we're happy to see this question aired.

- Sandy Day tells us that his retirement—postponed while David Bond took over the reins as president of the CAB—takes place early in November, or by the time you read this. Wayne Stacey has also left the Association to set up a broadcast consultancy in Ottawa and will act as technical advisor to CAB. We hope to persuade Sandy to continue writing for BT. His contributions to the industry—including his *Technitopics* column—have been immeasurable, and his knowledge has been shared in the good-natured, unassuming manner that is Sandy's trade mark. While we all want you and Doreen to enjoy the relaxation of retirement, Sandy, after many years of working (and WARC-ing), your many friends in the industry also want to see your smiling face and wise words in the pages of *Broadcast Technology*...



## You have a Problem? We've got the Solution!



# CE CALAWAY ENGINEERING EDITOR

**The System is called C.E.D.**  
A simple and low cost method of converting your IBM PC into a Professional videotape Editing system.

Is the system capable of A,B,C Roll?	yes
Does the System interface with Sony 1/2", 3/4" and 1" VTR?	yes
Is it compatible with CMX or ISC?	yes
Does it control a Production Switcher?	yes
A Grass Valley, Ross or CDL?	yes
Is it Very Expensive?	NO

The System can be yours for **under \$15,000.00**  
(Does not include IBM PC).

**WE TOLD YOU WE HAD A SOLUTION TO YOUR PROBLEM.**



For a demonstration or additional information, contact:  
**ORDIGRAPHE INC.**  
1445 Provencher  
Brossard, PQ. J4W 1Z3  
Tel: (514) 465-0360

## stations in the news

### New Television Stations Licensed for Montreal, Regina and Saskatoon

#### CFCF WILL ADD FRENCH STATION ON CHANNEL 35

Four Seasons Television Network Inc., 66% controlled by CFCF Inc., has been awarded a licence for a third French-language station in Montréal. CFJP-TV will operate 77 hours weekly on ch. 35, with ERP of 566 kw.

Denied by the CRTC: a bid by Four Seasons for channel 2 in Québec City, and applications by Télévision Saint-Laurent (Cogeco Inc. and Moffat Communications Ltd.), for stations in both cities.

The Commission decided against a new station in Québec City on the grounds that the existing radio and TV stations could not stand increased competition—only 3 of the city's 8 private radio stations made a profit over the past 3 years—and forecasts indicate declining population during the years 1986 to 2000.

Concentration of ownership was an issue in the decision, with commissioner Monique Coupal dissenting from the majority opinion. CFCF Inc. owns English-language stations CFCF-TV, CFQR-FM,

CFCF-AM and CFCX short-wave, also Champlain Productions and CF Cable TV, all of Montréal. However, the CRTC says that the combined audience of the CFCF group, including the new station, will be less than 20%, with the French station attracting an entirely different audience than that now served.

CFCF Inc. policy is that each of its operations is to remain a separate entity; also news staff for the two stations would be 'clearly separate' and Champlain will not produce programs for channel 35. The sharing of facilities such as production and post-production equipment, news bureaus and news services, film footage and microwave links, will provide economies in establishing CFJP-TV, and, the CRTC anticipates, will strengthen the company in an 'increasingly competitive' market.

#### Production by Independent Producers

All local program production, except for news and public affairs, will be delegated to independent producers. Projected program costs for the first year of operation

are \$14.6 million, with \$8.6 million for independent production (29 hours weekly). This will include a prime-time drama series and a late night talk show—both Monday thru Friday. The major news production will be a one-hour report at 5:30 pm M-F. An interesting program aspect is that there will be no telecasts of sports events.

The Commission says that it is ready to receive applications for the extension of channel 35 to Québec City and other parts of the province. In addition to cable TV distribution, it suggests rebroadcasters be established, either by Four Seasons or jointly with local operators.

#### CANWEST WINS LICENCES FOR REGINA AND SASKATOON

Saskwest Television Inc., a wholly-owned subsidiary of Canwest Broadcasting Ltd. (CKND-TV Winnipeg), has been licensed to provide third TV service in both Regina and Saskatoon. The Regina station will operate on channel 11 with 159 kw ERP, Saskatoon on ch. 4 with 57 kw; on-air target date is September, 1986.

Don Brinton, president, said Saskwest would spend \$6 million to establish the two stations, which will operate 24 hours a day and employ about 120 people.

Proposals for 3rd English service were sparked by a March, 1984, application by Saskwest for Regina, followed by one for Saskatoon. Competing applications were filed by Allarcom Ltd. (CITV Edmonton), and by Harvard Developments (CKCK-TV Regina), who, with a group of other broadcasters, proposed cable delivery throughout the province via Sask-Tel's broadband network. All three applicants expected to use channel 13 in Regina, which the CBC plans to relinquish when it builds a new transmitter site at Belle Plaine. However, in January, 1985, the CBC postponed the Belle Plaine project due to financial restraints, making ch. 13 unavailable. Saskwest simply revised its proposal to use channel 11 in Regina. Allarcom and Harvard opted for an entirely different approach: they proposed relaying the signal of CITV Edmonton (via Cancom satellite), adding local programs and commercials, for distribution on cable TV; Allarcom would run the Saskatoon operation, while Harvard would participate and supply studio facilities in Regina.

When the revised applications were heard in Regina in June, 'a vast majority of interventions' supported the Saskwest plan for over-the-air stations.

## IT ALL ADDS UP

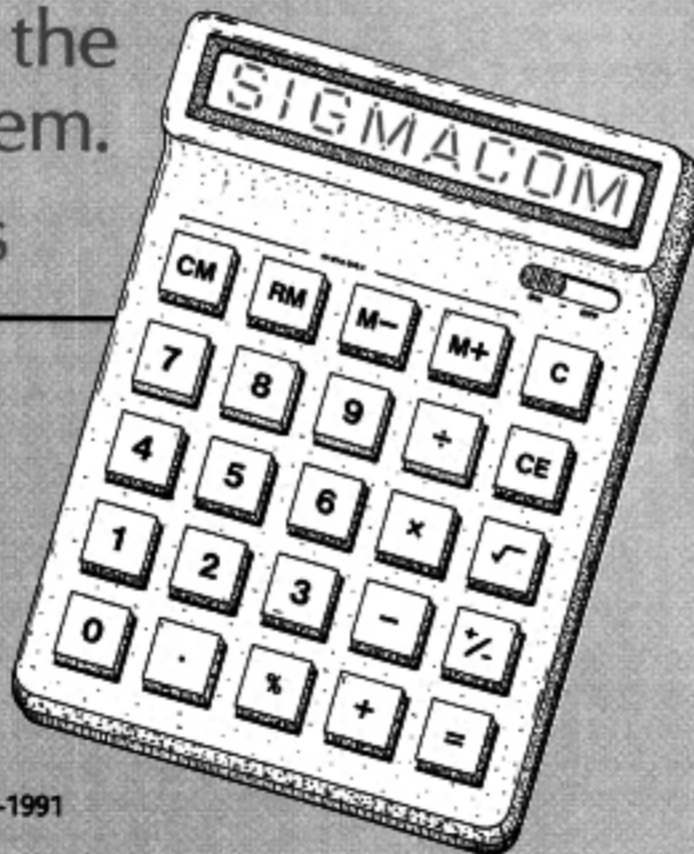
Terrestrial Microwave, TVRO, Cable or Rebroadcast Systems.

- + Over 30 Years Collective Experience
- + Cost Efficient Approach
- + Full Support for the Life of your System.
- + Quality Products

= THE TOTAL SOLUTION

**SIGMACOM**  
SIGMACOM SYSTEMS INC.

111 Industrial Drive, Unit 5,  
Whitby, Ontario, L1N 5Z9  
Telex: 06-981266 • Telephone (416) 666-1991



## stations in the news

As to the ability of the markets to support third services, the CRTC notes that the existing private stations, CKCK-TV Regina and CFQC-TV Saskatoon are 'among the most profitable' in Canada. Also, in all cities where third TV stations have been licensed, they have become viable without 'insurmountable hardship' to the existing stations. It is estimated that the two new stations will reach 500,000 viewers in Saskatchewan, twice that reached by the cable systems in Regina and Saskatoon.

### A Third English Network?

In response to charges that Canwest is attempting to form a third national English TV network, Saskwest insists that, like CKND-TV, its stations will be autonomous. Although Canwest holds indirect negative control of Global TV, it does not control the southern Ontario network; as for loan arrangements with CKVU-TV Vancouver, it would be 'entirely hypothetical' to assume that CKVU would ever come under Canwest ownership. Saskwest says it intends to offer up to 49% of its voting shares to residents of Saskatchewan, and will have four directors from the province.

Each of the new stations will have its own studio and production facilities, and will provide 23.5 hours weekly of local programming. There will also be 51.5 hrs. of other Canadian programming weekly, and 91 hrs. of non-Canadian programs not currently broadcast in the two markets. A mobile unit will be based in Saskatoon.

### POWER CORP. WANTS TO BUY MONTREAL'S TELE-METROPOLE

Power Corp., which has a reputation as an expanding and investment-wise conglomerate, has set its sights on Télé-Métropole. Power proposes paying \$97.8 million for a 41% equity, including almost all of the voting shares.

Télé-Métropole owns CFTM-TV Montréal and CJPM-TV Chicoutimi, and has a one-third interest in Pathonic Communications (CHLT-TV Sherbrooke, CHEM-TV Trois-Rivieres). All four are part of the TVA network, which is anchored by CFTM, Canada's largest and most profitable French-language TV station and a major production centre.

The media cross-ownership issue, however, could be an obstacle in obtaining CRTC approval for the purchase. Power Corp. owns four dailies—in Montréal, Trois-Rivieres, Sherbrooke and Granby. It also controls radio station CHEF Granby, and eight weekly papers.

### Other stations in the news...

- **CHRS Longueuil, PQ**, is planning to relocate its studios to nearby Saint-Jean.

- **Radio Saguenay Ltée**, licensee of **CKRS Jonquiere**, has applied to purchase all shares of **CJAB-FM Chicoutimi** from Gestion P. J. Audette Inc.

- **CIHO-FM Baie St-Paul, PQ**, plans to move to a new transmitter site on Mont des Eboulements, reducing power from 7,520 to 2,200 watts ERP.

- **CISQ-FM Squamish** is constructing a rebroadcaster at Sechelt, BC, 4.8 watts on 104.7 MHz.

- **Happy 15th anniversary to TVOntario!** The educational television network now reaches more than 2.3 million viewers weekly.

- **CKBX 100 Mile House, BC**, has applied for a power increase from 250w on 1240 to 500w on 840 kHz.

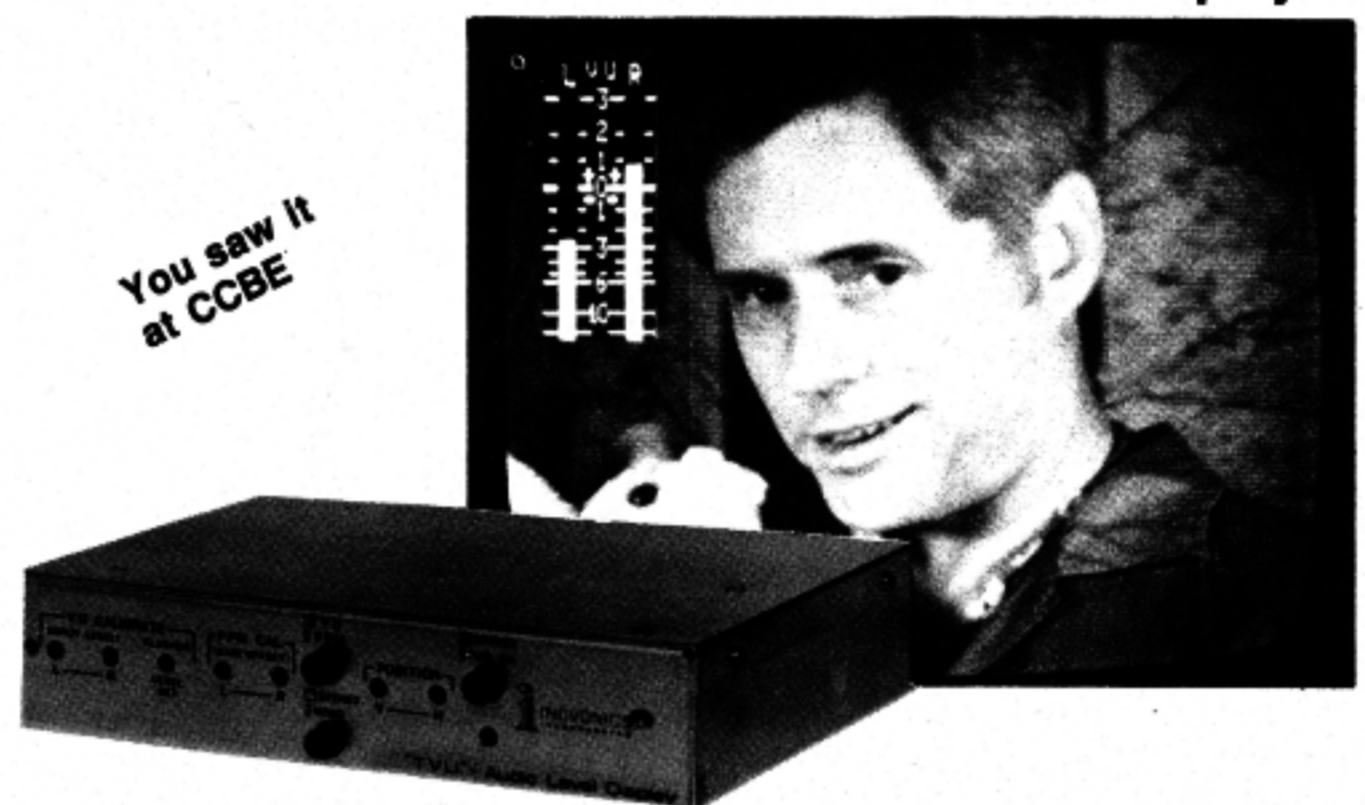
- **CHWO Oakville** has altered its 'Memory Music' format to become Canada's first 'Hit Parade/Radio to Remember' station.

### PROBLEM:

Watching a monitor screen during production and simultaneously reading audio level accurately

### SOLUTION:

### Inovonics Audio Level Display



By superimposing a bargraph anywhere on a monitor's screen, the Inovonics TVU allows quick and accurate stereo audio level observations.

### AFFORDABLE:

Meritron's list price for the Inovonics TVU is only **\$946.50\***

Federal Sales Tax included

### FEATURES:

- VU/PPM Switchable with adjustable Peak Flasher in VU mode
- High Accuracy and Resolution for precise level setting
- Fully Annotated Display with complete and proper scale designations
- Separate Inputs for balanced studio lines and "semi-pro" equipment
- Compact and lightweight

For more information and/or demonstration, call:

\*Price is in Canadian funds and is subject to change without notice.

## MERITRON INC.

P.O. Box 6, Station A

Downsview, Ontario

M3M 2Z9

Tel: (416) 635-9456

Tlx: 06-23359

## SLAIGHT-STANDARD DEAL IN CRTC'S COURT

As BT went to press, a CRTC decision was still awaited on the purchase of Standard Broadcasting by Slight Communications. The hearing was held September 18, after which Canadian Press reported that Allan Slight brought 'at least 27 people and Toronto financier Conrad Black on video tape' to 'the chummy, clubhouse atmosphere of the half-day hearing...' When

the Commission said it would not make a decision until after October 9th, the cut-off date for Slight's conditional offer, Slight waived the condition and took up the 84.8% of Standard shares which had been offered. Cost of the purchase is approximately \$110 million.

Slight accepted an offer of over \$18 million for Toronto stations CFGM and CILQ-FM from Westcom Radio Group Ltd. of Vancouver—also subject to CRTC approval.

## ONTARIO FM APPLICATIONS

Applications for FM stations in several Ontario cities were heard at an October public hearing in Toronto.

• **Bracebridge:** Hugh and Michael MacKenzie propose operating on 97.7 with 65,000 watts; they would originate 47 hours of local programming a week, and at other times would rebroadcast CHF1-FM Toronto. Joseph F. Duchesne, owner of CFBK Huntsville, would broadcast on 107.7 with 50,000 watts; he would initially rebroadcast CFBK, but by year 5 would provide 100% local programming.

• **Brockville:** Eastern Ontario Broadcasting (CFJR) proposes a pop/soft rock format on 103.7, with 50,000 watts ERP.

• **Chatham:** Competing applications were filed by Bea-Ver Communications, for a pop/soft rock format, 35,400 watts; and by Key Radio (CFCO) for a country music format, 50,000 watts.

• **London:** London Broadcasters (CKSL) propose a pop/soft rock format on 103.1 with 3,000 watts.

• **Parry Sound:** Robert R. Bowland of Barrie would acquire CFBQ from Jos. Duchesne and also establish an FM station on 103.3 with 1700 watts ERP. Programs would be simulcast for six months, at which time the AM (on 1340) would be phased out.

## OCEAN PACIFIC PREFERS 1040

Ocean Pacific Broadcasting Inc., which won a licence two years ago for a new AM station in Vancouver on 540 kHz (50 kw day/ 10 kw night), has now applied for a change of frequency to 1040.

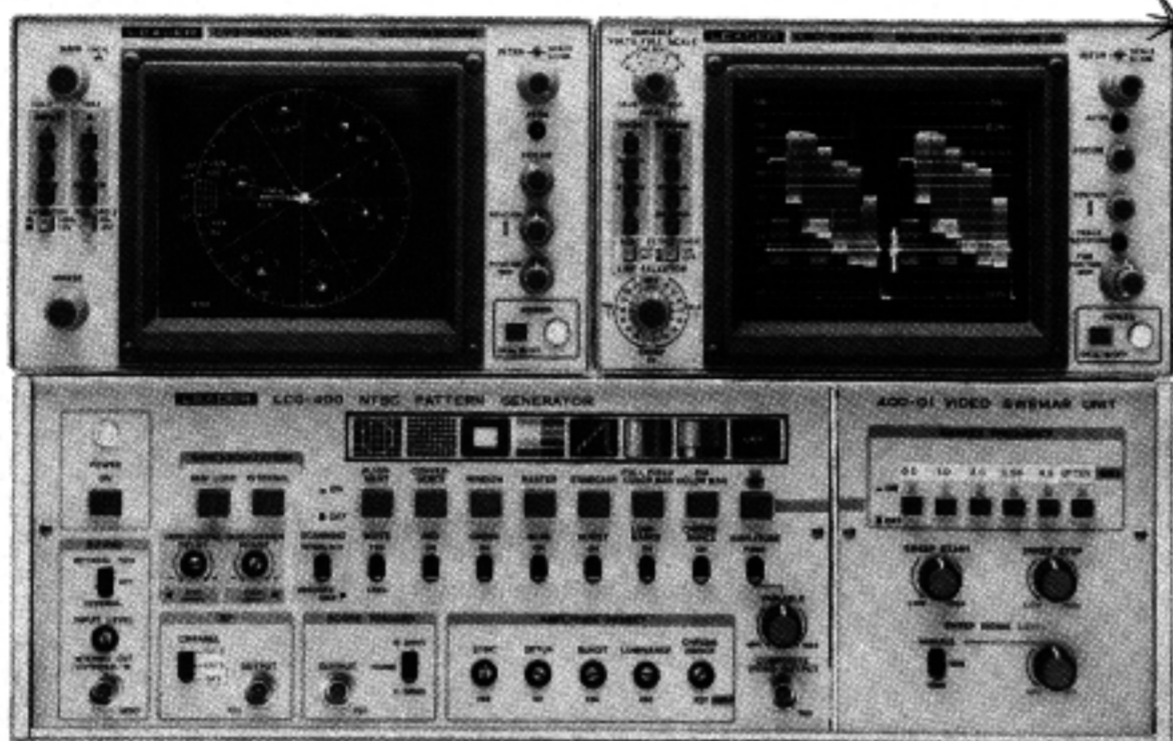
Construction has been postponed as a result of the economic climate, and Ocean Pacific says costs would be substantially reduced by using 1040. The revised plan would also allow 50 kw full-time, from a transmitter site in Richmond, BC.

## COMMUNITY FM FOR INUVIK

The Inuvik (NWT) Community Broadcasting Society has been licensed to operate an English-language station on 103.1 MHz with 7.8 watts ERP. The CRTC describes the station as 'an important local service' for developing community radio programs.

## CITY-TV SEEKS CH. 31 WOODSTOCK

CHUM Limited has applied for a rebroadcaster of CITY-TV Toronto to be located



## The fastest rising stars in video test instruments.

Video engineers, studio and station managers all go for star-quality Leader features and value. With immediate delivery and a 2-year Omnitronix warranty on all labour and parts, even CRT's, it's no surprise that more and more networks and stations are booking Leader. We've got the right performers at the right price.

**The only vectorscopes with etched and/or electronic graticules.** Only Leader's half-rack LVS-5850 gives you a choice of standard graticule, or electronically generated targets which are easily read from afar or in the dark. • Electronic targets reduce parallax and non-linearity errors. • Three loop-through inputs

**LEADER**  
Instruments Corporation

including dedicated external sub-carrier reference.

**The first half-rack waveform monitor with a line selector.**

Leader's LBO-5860 has many more features than higher priced half-rack waveform monitors. • Front panel line selection for displaying VITS and VIRS. • Lines 14 through 21 on fields 1 or 2 can be individually selected. • Output blanks vectorscope to display selected line vector only.

**Get the generators with every important feature ... including economy.**

Compare the LCG-400 to any

other sync/test generators. Feature for feature, dollar for dollar, they can't be beat!

• Seven primary test signals with many auxiliary outputs. • Genlock with adjustable horizontal delay and subcarrier phase. • Sync, set-up, burst, luminance, and chrominance levels, all front panel adjustable.

**The video engineer's oscilloscope.**

Video engineers will reach for the 100 MHz Leader LBO-518 first. It's the better way to troubleshoot systems and equipment. • 2 independent active sync separator trigger inputs. • 4-channel, 8-trace capability. • PDA CRT, with 20 kV potential.

Rack up some stars at your studio. Call or write today for our latest full-line catalogue.

2410 Dunwin Dr., Unit 4,  
Mississauga, Ont. L5L 1J9  
(416) 828-6221 Telex 06-22324

8100F, Trans-Canada Hwy.,  
St. Laurent, Que. H4S 1M5  
(514) 337-9500 Telex 05-824151



**Omnitronix** Instruments  
that measure up

at Woodstock. Operating on channel 31 with 70.6 kw ERP, the station would cover much of southwestern Ontario, including the cities of London and Kitchener.

**NATIVE RADIO NETS PLANNED**

Three native organizations are planning to expand radio network operations, via CBC's Northern Québec satellite service.

- The James Bay Cree Communication Society would broadcast Cree and Algonquin programming produced at Mistassini, PQ, over nine CBC stations;
- Société de Communication Attikamekw-Montagnais would produce programming in three locations for broadcast on 15 CBC and community stations; and
- Taqramiut Nipingat Inc. would distribute Inuktituk programs produced at Salluit over CBC outlets plus five community stations in northern Québec.

**PRAIRIE CTV AFFILIATES SHARE DRAMA PRODUCTION**

Five western television stations, all CTV network affiliates, are joining forces for the production of quality TV dramas. Initially, resources of up to \$2 million will be pooled by CFRN-TV Edmonton, CFCN-

TV Calgary, CFQC-TV Saskatoon, CKCK-TV Regina and CKY-TV Winnipeg. They hope to obtain additional funds from Telefilm Canada for ongoing production of drama in the prairie region. The shows will be aired in prime time and made available for sale in other markets.

**FM BIDS FOR MONCTON, CHATHAM**

The CRTC has received applications for English FM stations at Moncton and Chatham, New Brunswick. A deadline of November 15, 1985, was set for further applications, which may be for either English or French FM operations.

**FORT ERIE AM SOUGHT**

Keith Dancy has applied for AM for Fort Erie, Ontario, to operate on 530 kHz with 250 watts. It would combine local programming with programs from Dancy's CJRN Niagara Falls, using the CJRN studios and transmitting tower.

**CJRT CONTINUES LIVE CONCERTS**

Among the live concerts being presented by CJRT-FM Toronto during the 1985-86 season are a 4-part Mozart series and ten

*Sound of Toronto Jazz* shows. Tapes of the series are available to other Canadian stations through the Program Exchange Service of the Canadian Association of Broadcasters.

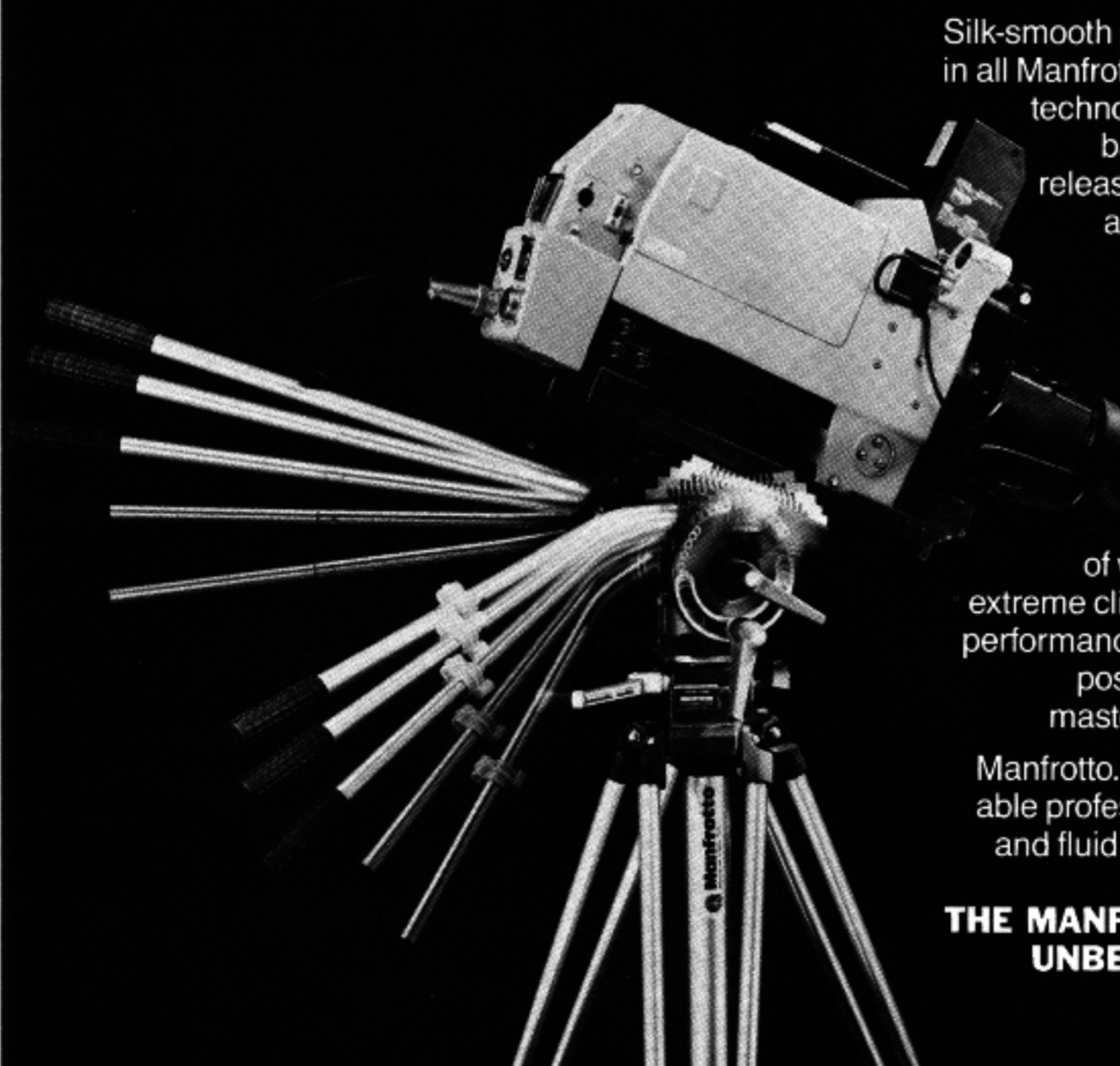
In renewing CJRT's licence for a 5-year term, the CRTC commended the station for its commitment to Canadian talent, which includes some 50 live concerts per year.

- Community radio station **CKWR-FM Kitchener** marked its move to new studios with a grand opening on Sept. 28. The new facilities are in a remodelled house on Regina Street North, Waterloo.

- Multilingual **CFMT-TV Toronto** had a 'gift' from the CRTC to help celebrate its 6th anniversary: all cable systems within 20-miles beyond the B contour are now required to carry ch. 47 on the basic service. CFMT is now on 56 cable systems, and is microwaved to London, Windsor, ON, and Rochester, NY.

- The Mount Allison University station **CHMA Sackville, NB** (Attic Broadcasting Co. Ltd.) is replacing its carrier current operation with a 50 watt FM station on 106.9 MHz—Sackville's first radio station.

**THE SCIENCE OF SMOOTH MOVEMENT.**



Silk-smooth pan and tilt action. A science perfected in all Manfrotto fluid heads. It includes an advanced technology fluid drag system. Perfect camera balance simplified by an exclusive guide release platform. A 45° safety lock to prevent accidental unbalanced equipment damage. Positive locking handle carriers for multi position handle placement. Independent pan and tilt locks. And a camera quick release system. Add to this the things you cannot see — the brilliantly engineered internal features, the inspired craftsmanship of working parts, the reliability even under extreme climatic conditions and the reputation for performance that Manfrotto has earned — and it's possible to understand how Manfrotto has mastered the science of smooth movement.

Manfrotto. The name that has become the affordable professional standard in light stands, tripods and fluid heads. Just ask anyone who uses one.

**THE MANFROTTO SUPER VIDEO HEAD 116. UNBELIEVABLY PRICED UNDER \$400.**

For a complete product catalogue write: Amplis Foto Inc., 22 Telson Road, Markham, Ontario L3R 1E5

**CHAM HAMILTON CELEBRATES MOVE TO 820 kHz**



*Hamilton's Mayor Bob Morrow and CHAM morning man Cliff Dumas are seen turning the dial on a gigantic radio from CHAM's former position (1280) to its new spot at 820. The event took place at a free family concert in Hamilton's Gage Park, when CHAM Radio increased power from 10,000 watts to 50,000 watts—allowing country fans all over south-central Ontario to receive the CHAM signal 'loud and clear'.*

**STUDER DONATION TO CFRO-FM**

Studer Revox Canada, Ltd., has donated replacement tape recorder heads valued at \$1,400 to Vancouver Co-operative Radio. Chief engineer Bruce Whittington says Studer's generous donation will greatly enhance technical quality of CFRO—the only community radio station in western Canada.

**ARMSTRONG AWARD WINNERS**

CBC Radio in Toronto was among the winners of the 21st annual Armstrong radio awards, which honor the inventor of FM, Major Edwin H. Armstrong. Another award in the 'excellence and originality' category was to WEEI Boston.

- There were four special awards:
- For technical achievement—WNCN New York, 'a model in FM quality' and pioneer in using digital compact discs; and KSJN St. Paul (Minnesota Public Radio), for its accomplishments in digital and satellite broadcasting.
  - For outstanding service to the industry—Ben Hoberman, president of ABC Radio, for AM; and Norman Pellegrini of WFMT Chicago, for FM.



**TENNAPLEX SYSTEMS LTD.**

21 Concourse Gate, Nepean, Ontario K2E 7S4 Telex 053 4962 Tel.: (613) 226-5870  
452 Five Farms Lane, Timonium, Maryland 21093 Tel.: (301) 561-1999

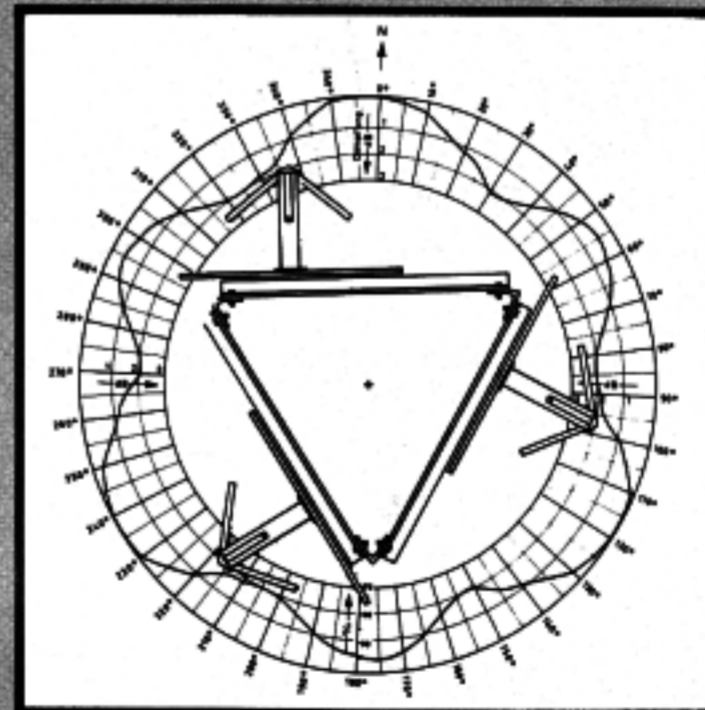
**ATTENTION FM BROADCASTERS**

Circle #136 on Reader Service Card

**LOOK** to Tennaplex for your hardware and state-of-the-art designs.



Antennas that are truly circularly polarized, and unaffected by the mounting structure or ice and snow without de-icers.



Combiners that are stable and reliable without controlled environments.

• Power increases have been approved for **CJMT Chicoutimi** (from 2,500 to 5,000 watts night) and **CKBS Saint-Hyacinthe** (from 250 to 1,000 w. day).

• **Access Network** and the University of Alberta sponsored a Nov. 1 symposium in Edmonton on the restructuring of the Canadian Broadcasting system. Participants were able to interact with the federal Task Force on Broadcasting Policy and other resource people. Four sessions covered 1) technology; 2) regulator and incentive provisions; 3) regional and local TV; and 4) multilingual broadcasting.

• **CKO Radio** will carry the Canadian Opera Company's 4th annual Radiothon (Nov. 29-Dec. 1). Six COC performances are again being heard this fall throughout Canada (on **CBC**) and the United States.

• **C-FAX Victoria** is claiming two 'firsts' in weather reporting for the area: it has installed a digital radar system which scans for rain and snow within a 64-mile radius, and has named Blane Coulcher to be the first radio station meteorologist on Vancouver Island.

• Some items from along the **CBC Radio** network... **CBNC Stephenville, NF**, has ceased AM operations and been replaced by **CBNC-FM**... FM rebroadcasters on the drawing board include **Bonne Bay, NF** (1,000w on 89.1, ex-CBY); **Northeast Margaree, NS** (42w on 93.9, ex-CBI); **Hearst** (10,500w on 90.3) and **Wawa, ON** (890w on 90.7), both ex-CBON-FM Sudbury; **Bonnyville** (50,000w on 98.7, ex-CHFA Edmonton); **High Prairie** (50,000w on 90.9) and **Whitecourt, AB** (5,000w on 90.5) both ex-CBX Edmonton... And a rebroadcaster of **CHAK Inuvik** has been licensed for **Aklavik, NWT**. It will operate on 540 kHz with 40w, replacing a proposed FM rebroadcaster.

• **CFTR Toronto** has broken the long-standing record of **CFRB** as having the largest radio audience in Canada. 'RB, however, hopes that recent program changes will re-capture the #1 spot. Stay tuned!

• Publicity from **CKVU-TV Vancouver** tells us a recent episode of *Stir Crazy* was shot on the Capilano suspension bridge. Rumor has it that, even with that much suspense, the show is still being axed...

• New call letters for **CJAZ** are **CKKS-FM Vancouver**. The Selkirk station recently switched from a jazz format to MOR.

• The clock ran out on plans by **Cariboo Central Interior Radio Inc.** for FM operations at Burns Lake, Smithers, and Houston, BC. After it licensed the stations in Nov/82, the CRTC granted an extension to Nov/84, but has now rejected any further time to get the stations on-air.

• **CFRB Toronto** has altered its night-time radiation pattern to improve service to the northwest—including major centres such as Bolton...

• Ownership of **CFRC-FM Kingston** has been transferred from Queen's University to an independent body known as Radio Queen's University, to comply with CRTC requirements. Also authorized: simulcast of AM and FM during student vacations.

THE '1500' CHOICE

The 1500 is...

Dual Micro-Disks  
21 Standard Fonts  
65 in Resolution

...and MUCH more!!

Select colors...

CHARACTERS  
OR  
BACKGROUNDS

...a scan at a time!!

The new model 1500 by Laird Telemedia is setting the standard in high-quality, low-cost Character Generators of the future. At the heart of the 1500 is a dual microfloppy disk-drive system for quick and easy access to character font and page information. The basic unit includes 35 nsec character resolution, 21 disk-loadable fonts (with an optional 50-font library), and over 65 thousand resident colors. Both page and line information can be centered, and characters can be italicized (forward or backward) at many angles. Edging in the 1500 includes four quadrants of drop shadow, as well as character outline and full character edging.

The 1500 features proportional spacing, roll, crawl, and insert/delete editing capability. The unit also accommodates upgradable options. These along with a truly affordable price of under **\$12,000.00** make the (FST out)

Add Plain...

Italicize forward or backward with seven different styles

Proportional spacing with true character spacing is standard

Select between full-edging or Drop Shadow, in four quadrants

...to any display!



**MODEL 1500**

**YOUR BEST CHOICE!**

*Exclusive Dealer:*  
**Télé Syn Vidéo Inc.**  
C.P. 389  
Ste-Marthe-sur-le-lac  
Québec J0N 1P0  
(514) 472-7231

*Ontario Dealer:*  
**Glentronix Ltd.**  
90 Nolan Court, Unit 7  
Markham, Ontario  
L3R 4L9  
(416) 475-8494

# THE BASICS

By Bruce Dingwall



## Part 3 of an in-depth look at AM Stereo —plus some timely technical tips

For the past two installments of *The Basics*, I have been describing the rather incredible and convoluted path by which AM Stereo came to be a reality. As well, I have been passing on things which I have learned about getting ready for AM Stereo, and making it work. It has been rather interesting, the calls and the mail which I have received on this particular series of articles. I'm very glad so many of you appreciate having this information pulled together like this.

### More About Kahn/Hazeltine

Leonard Kahn has been very involved, first with the 'phone conversations I mentioned last issue. Then, a few weeks ago, he sent me a copy of the manual for his new STR-84 Exciter. This manual contains a wealth of information, not only about the principles of operation of his system, but also about the requirements for AM Stereo in general.

The Kahn system has obvious advantages for those with adjacent channel sideband interference problems. To set this down in his own terms, here, with Leonard Kahn's permission, is a quote from the introduction to the STR-84 manual:

*(The Kahn AM Stereo system is) less sensitive to adjacent channel interference than even conventional monophonic reception. This unique feature, which makes use of the "cocktail party effect" known to physiologists, allows listeners to discriminate against interference by use of spatial selectivity. The Independent Sideband technique used in the Kahn/Hazeltine system places adjacent channel interference at the extreme ends of the stereo stage so that listeners can spatially discriminate against this type of interference.*

However, there are still a number of points about the Kahn system which I want to discuss with Leonard Kahn, in order to make it clearer for readers of this column.

### Motorola Responds

It had puzzled me that the Motorola people had not responded to this series; surely they must want to have some input into the discussion. As it had turned out, I had

no sooner put these words on paper one evening, than I received a call from Frank Hilbert of Motorola the next day! He took issue with a number of points I had made in Part 13 (Sept/Oct/85):

- One point with which he took exception was the statement that the C-Quam system trades the envelope detector compatibility problem for a complex stereo decode algorithm which can be optimized for separation or distortion, but not both. I asked him to express it his way.

He says that the use of the various adjustments in the C-Quam Exciter allows the user to trade reduced separation for reduced distortion, particularly in older transmitters which need help "cancelling distortion".

However, my question is, can the trade-off be optimized to advantage in newer transmitters? I'll have to be shown the answer to that one.

- On another point, we discussed whether the C-Quam decoder, built around the M13020P IC, was an approximate or an exact decoder. He maintains that it is exact, up to 70%, single channel modulation; after that it becomes approximate, for the reasons I discussed in the last issue. Compromise?

- Finally, he told me that, after the FCC decision in favor of the PMX system, Motorola were going to look to changing their chip to operate on the PMX principles, but found various problems with the PMX system, revolving around sideband asymmetry

This problem is something of which I was only remotely aware. Apparently, though, it is severe enough to affect performance, particularly in Electronically Tuned Radios. As the units age, and the tuning goes off by 1 kHz or more, the anomalies become very scarce.

These anomalies have been perceived in the Delco road tests, predictably at certain points on a test route. No explanation could be given for their cause, nor their cure. It was at this point that Norm Parker and the boys at Motorola sharpened their pencils, and sought to improve their own system.

### Platform Effects

Of the AM Stereo anomalies which have garnered the greatest amount of press, number one is probably "platform rotation" and "platform motion". Platform motion is something which I finally

## sonotechnique sonotechnique

The Sound of the Future

Distributor of Leading Audio Equipment Manufacturers



Cetec Vega

CHILFON



Dolby

lexicon

Neve

OTARI

SONOSAX

NEOTEK

...and others.

Contact us for counselling and competitive prices

## sonotechnique

2585 Bates Rd.  
Room 304  
Montreal, Quebec  
H3S 1A9

Toronto: (416) 597-0840  
Montreal: (514) 739-3368

50 Widmer Street  
Toronto, Ontario  
M5V 2E9



experienced with a Delco UX1 option radio in a 1985 Camaro I had as a loaner for a couple of days. It was due to re-radiation off nearby hydro lines, and it was disconcerting!

When I put this to Frank Hilbert, he told me that Motorola were painfully aware of, not so much the problem, but the press it has received. In point of fact, they feel that AGC effects and loop following effects are far worse than any platform effects.

However, in response, during minor revisions to the design of the AM Stereo M13020P chip, a provision was put in to have the channels "blend" when the co-channel interference became greater than 8 per cent.

This is similar to FM Stereo receivers going to a "blend" mode when the signal strength becomes so low that the recovered audio is getting quite noisy. An interesting and effective solution, but will it work effectively?

I have asked for more details about C-Quam; in fact, I was very critical of Motorola for their failure to provide anything but materials that were either consumer bland, or far too theoretical for the average engineer to want to wade through.

Hilbert has promised much more information; in fact, he has requested a meeting during CCBE/85. It is during that show that I hope to meet, on your behalf, with Leonard Kahn in order to clarify a number of basic points regarding his systems (1977 and 1984 versions).

It is my sincere hope, when we continue the discussion of AM Stereo, not to resolve the debate, but to give you the most accurate and honest interpretation of the information received in my sessions with these gentlemen.

### Basics in Brief

• **DIRECTIONAL ANTENNAS:** Always on the lookout for books which contain fundamental information ("basics"), this one was brought to my attention by John McCloy: *Directional Broadcast Antennas: A Guide to Adjustment, Measurement, & Testing* by Jack Layton (TAB Books #733, 1974).

The book may be a bit dated, but that's no reflection on the good information contained in it, and the clarity with which Layton presents it.

• **PERSONAL COMPUTERS:** Bill Schofield called from CJIC-TV in Sault Ste Marie, to tell me about a PC clone he has found. It is available in kit form, and very reasonably priced. The ASC-1000 is available through Soltec in Vancouver, BC. Call or write to Bill for more details on the computer, and how his department likes it.

• **GET THAT FOAM OUT:** If you have a Continental 317C-2 (or similar transmitter) where the company who installed it lined the air intake/modulation transformer plenum with acoustic foam, get the foam out of there as soon as possible. It has a tendency to break down and become a sticky mess. It will also shred, and you'll find it throughout your transmitter.

• **GUY ANCHOR CORROSION:** If the guy anchors at your AM site are not buried in sand, but rather in clay or a similar congealing earth, better think about having them excavated and inspected. Reinforcing what Ernie Mott demonstrated in his talk at CCBE/83, the corrosion which can take place due to anerobic action is very startling and devastating. I do not know the situation as it pertains to FM or TV

# The Problem Solver...

The RF Wattmeter Model 81000-A from Coaxial Dynamics, Inc. does more than provide accurate rf measurements. Testing of transmission lines, antennas, connectors, filters and related components can reveal unknown problems and assure optimum equipment performance.

The 81000-AK Wattkit features this easy-to-read RF Wattmeter (pictured here), with its optional carrying case and an array of elements and accessories. Coaxial Dynamics elements can be purchased separately for use in other manufacturer's Wattmeters. For more information on the 81000-A Wattmeter or any of the complete line of Coaxial Dynamics RF products and OEM components please contact Coaxial Dynamics, Inc.



Special elements available for cellular radio. Call factory for name of your local distributor.



**COAXIAL DYNAMICS, INC.**

15210 Industrial Parkway, Cleveland, OH 44135 • (216) 267-2233  
Outside Ohio, WATS: (800) Coaxial, Telex: 980-630



transmission tower guy anchors, but at high-power AM sites, there may very well be problems. This information comes from a well-respected corrosion expert.

• **WIRING SYSTEMS:** There were some questions about wiring systems employed at CFRB. The technology of the Northern Telecom/ADC "66" series block has been employed by many stations, since it is cost effective, convenient and simple.

However, one of the things that I have seen done with "66" series blocks, which I don't like to see, is to put AC circuits on the blocks. Dangerous!

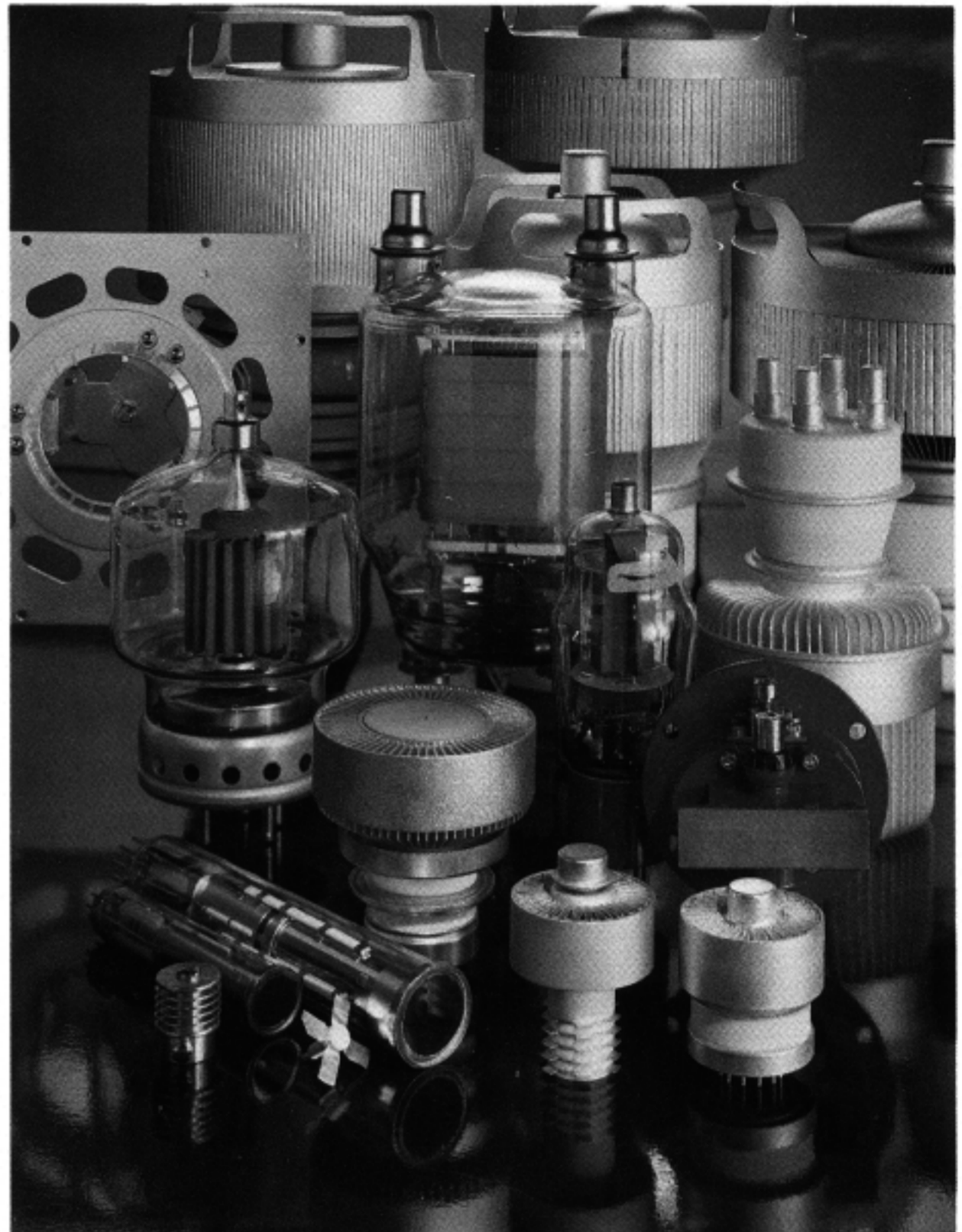
Also, I have seen some installations by one service company, where the gauge of wire employed was far larger than the "66" clip can accept. The result is an over-extension of the clip and resultant loss in jaw tension, leading to intermittants in the circuits. This is why I recommend staying with Cinch-Jones 140 and similar series terminal blocks, and compression lugs for power circuits and situations where wire gauges larger than #22 must be employed.

There is a new series of block from ADC, the Q66 series, which were reputed to take stranded and solid wire, and have a higher density than the NE-66, or even the smaller NE-66M series of blocks. One of the products in the lines was a connector block terminated in a 50-pin ribbon type plug. This new series would have the obvious advantages of reducing wiring time and connector block space requirements. However, due to quality control problems in the initial runs of this new product, ADC pulled it off the market. My sources tell me that it should be re-released to market just about the time you read this.

Since many new pieces of equipment have low voltage and logic level control circuits, we are experimenting at CFRB/CKFM with the Northern Telecom BIX series of high density connecting blocks. Designed for the #22, #24 and #26 solid wire, our initial findings are that they will work nicely with #22 and #24 stranded wire as well. Besides being quite low in cost, the BIX series has the inherent design advantages of a "dead front" design (no exposed terminal clips), and high density. Since we are trying them in a current installation, I will report on the degree of success achieved with these new materials.

*Bruce Dingwall, C.E.T., is chief technologist in charge of studios and transmitters for CFRB. THE BASICS is a practical review of engineering problems, and readers are invited to send their questions or comments c/o CFRB, 2 St. Clair Ave. W., Toronto, ON, M4V 1L6.*

# A component for every camera. A tube for every transmitter.



Our purpose is clear: to provide the ultimate source for all broadcast related tubes and components.

We've geared our entire distribution system to ship virtually every order the same day.

Our highly personalized service and technical knowledge is legendary in the industry.



**Richardson Electronics  
Canada Ltd.**

24 Queen Street East, Brampton, Ontario L6V 1A3  
Telephone: (416) 454-5950, Toll free: (800) 387-2344

---

# BROADCAST BEAT

## by Phil Stone

---

A lot has happened since the last edition of *Broadcast Beat*... **Dick Drew** wrote to let us know that **Pierre Berton**, on his highly successful series *The Canadian Achievers*, paid tribute to old friend **Lyman Potts**. He also notes that a scholarship is being funded in **Tommy Darling's** name at Mohawk College in Hamilton. Dick is executive producer of two new radio series, *Expo '86 Update* with **Fred Davis** as host, and *Expo '86 Report* with **Red Robinson**. The two features are co-ordinated by Drew Marketing and syndicated under the direction of **Dean Cooper**, Seacoast Sound, Victoria... Radio producer **Heikki Kuld** moved from Sears to Leo Burnett... **BBM**, expanding its operations in Montréal, added **Rodney Neander** as an account exec...

At Broadcast News: **Richard Neff** was appointed Ontario regional editor, Toronto; **Rose Jansen** joined BN from CKEY-Newsradio; **Anna Geddes** became staff correspondent in Calgary; **Gerald Weseen**, sports editor at Toronto moved to the Halifax bureau and was replaced by **Abe Hefter**; **Norman Jack** moved from Toronto to Ottawa to replace **Rick Gibbons**, Parliament Hill veteran, now BN's London-based European correspondent; and **Will McKenzie** moved to Fredericton, replacing **Heather Boyd**, now western supervising editor based in Edmonton... **Ron Moray**, the former CHUM and CKEY staffer who became a major voice-over figure and with it a millionaire living in New York, plans to buy a U.S. radio station... Veteran broadcaster **Peter Webb** joined the **Les Salnick** rep firm... **Jerry Morton**, who'd been an account exec with CFMT-TV Toronto, has returned as assistant national sales manager... In the U.S., top price for a prime time 30-sec. network TV spot now runs over \$175,000... **WKBW-TV** Buffalo sold for \$65 million...

The CBC plan for a broadcast centre to replace its 22 locations in Toronto seems justified. Describing the present situation, writer **Gordon Donaldson** calls Toronto 'the slum capital of broadcasting'... The gigantic contributions made by the British Broadcasting Corporation are thoroughly delineated in **Asa Briggs'** book, *The BBC: The First 50 Years*. For many, it could be \$43.75 well spent... After making eight feature films, **Liza Minelli** is preparing a TV drama called *Intensive Care*, based on a Connecticut boy's losing battle with muscular dystrophy. An interesting sidelight: the lad is played by 8-year-old **Corey Haim** of Toronto... Youngsters aged 12-19 drink 30% of all cola drinks, while 41% is consumed by the 20-34 bracket... **CHUM Ltd.** will pay some \$6.5 million for **CITY-TV's** new building in Toronto... Canadian actor **Harvey Atkin**, popular as Sergeant Ronal Coleman in *Cagney and Lacey*, has signed a new 3-year contract reported to be 'sweet'... **Roger Duhamel**, the journalist, Québec nationalist, Canadian diplomat and one-time member of the Board of Broadcast Governors, died at age 69...

According to Stats Canada, after-tax profits of Canada's privately-owned radio stations increased 111% in the last fiscal year; net earnings rose to \$12.4 million (from \$5.86 million) as revenues increased by 13.5% to \$558.7 million... Many of us remember with affection **David Rogers**, the former gm of Broadcast News who died at 59. He was a tower of strength in RTNDA...

New shared address of the Canadian Advertising Foundation, the Advertising Standards Council and the Advertising Advisory Board is 350 Bloor St. East, Suite 402, Toronto, ON, M4W 1H5, (416) 961-6311... **Genevieve Westcott**, after moving to New Zealand TV, won that country's award for best news journalist; she's the daughter of **Clare Westcott**, for many years right arm to former Ontario premier **William Davis**... The long-time wish

of **Al Waters** to own stations in Montréal was realized when the CRTC approved **CHUM's** purchase of **CKGM/CHOM-FM**, along with **CKWW/CJOM-FM** Windsor. **Lee Hambleton**, active in broadcasting there for the past 17 years, was appointed vp/gm of **CHUM Québec**... **Doug Trowell**, who retired as president of Key Radio, contributed much during his 39 years in the industry... **Pierre Nadeau** says that Canadian content represents 70% of TV program costs, and only 30% of revenues; U.S. programs represent 30% of costs and bring in 70% of revenues... Halifax stations got more competition when **WBLZ-TV** Bangor, Maine, opened a sales office in the city... *Where are they now?* The Quarter/Half Century Club is looking for the address of any of the following: Hugh Clark, William Hannah, John Norman Inkster, Jack Kennedy, Ken Munro, Arnie Nelson, Helen Eva Urban, Eugene Pominville, Berte Robitaille, Percy Smith, William (Bill) Smith, Richard Tregillus, Marie-Paule Vachon and Dick Varney. Please pass on any information you may have to Gerry Acton at the CAB, Box 627, Station B, Ottawa, ON, K1P 5S2.

Our middle son, **Doug Stone**, back from Los Angeles where he voiced the major cartoon series *M.A.S.K.*, told us of a store out on the coast called 'Humphrey Yogurt'—Doug figures that next there will be a bakery named 'Clark Bagel'... **Dennis Horlock** became Toronto sales manager at All-Canada and was succeeded by **Greg Asling** as manager of the Halifax office... **Jan Glyde**, formerly with the Inquiry on Federal Water Policy, joined CAB as vp, communications... **Cathay International TV** bought the B.C. pay-TV channel **World View**... **Ted McCadden** of **CJSB** Ottawa became a member of Variety Club of Ontario... Because of Toronto's large Caribbean community, reggae is becoming a major music form; as an example, **CKFM** added a twice-weekly reggae show hosted by **P.V. Smith**... **TvB** had wide and deserved publicity for its campaign against drinking-and-driving... **CBC-TV's Michael McIvor**, previously posted in Washington, is Moscow correspondent, replacing **Jan Lazowski**... **Rogers Cable TV** added **CNN** Headline News and the **Financial News Network**, dropping **The Learning Channel** and **Country Music TV**... **Sharon Dunn**, ex-CBLT news, now hosts *The New You*, a syndicated TV show of beauty tips... Many media people knew **Doug Amaron**, one-time war correspondent and for many years general superintendent of Canadian Press. His death at age 70 removes a gentle, warm, intelligent man who contributed much to Canadian journalism...

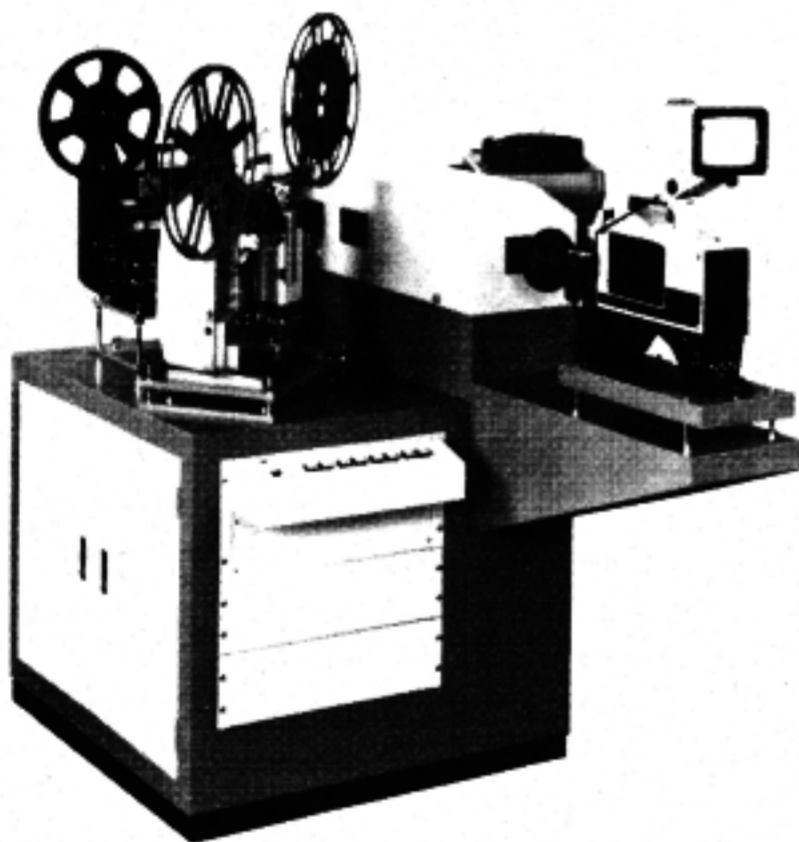
Now on-air at Toronto's International Airport is **CFYZ**, 530 kHz. It repeats general information about the airport 24 hours a day... **Murray Smith**, who hosted talk shows on **CKO**, moved to **CFRB** as entertainment editor... **CTV** will carry 26 **NHL** games this season, 22 on Friday nights... Incidentally, there's more than one **CTV** in the world—for example, Rome has **Centro Televisio Vaticano**, which sells souvenir video cassettes of the Pope and will also tape your private audience with the Holy Father... Sometime host of **CFRB's Starlight Serenade**, **David Ouchterlony** joined classical music station **CFMX-FM** Cobourg... At **TVOntario**: **Bernard Ostry**, well-known to broadcasters from his association with the CRTC, succeeded **John Radford** as chairman... A sad note: **Bob Dermer**, 'Sam the Security Guard' on *Today's Special*, lost the sight of his right eye in a late-night auto accident... And **TVO** received the go-ahead for a French-language service to start late in 1986; Ottawa and Ontario have agreed to share the \$6 million annual cost for 5 years. **TVO** now broadcasts French on Sundays...

After 9 years of 'counting on the Commerce' **Anne Murray** and

CIBC have called it a day... With CFTR topping the ratings, pd **Eric Sanderson** was promoted to vp, programming... The CRTC is mulling over public comments on regulation of broadcast advertising of liquor, beer, wine and cider... Astral Bellevue Pathé Inc. opened a \$3.5 million video cassette duplication plant in Québec, said to be Canada's 3rd largest. Astral has a similar plant in Toronto... **Paddy Sampson**, who did many brilliant things during his 32 years with CBC, is director of ceremonies for the 1988 Winter Games in Calgary. His wife, by the way, is **Bette Laderoute**, who edits the people page for *Macleans*... I hear that after he left CFRB, **John Spragge** opened his own communications firm... And **John Donable**, once a big name with CHUM-FM and CFGM, joined 'RB... Amway Corp. sold Mutual Radio to Westwood One, a programming service based in California... **Peter D. Ross** was appointed senior vp, services, Selkirk Communications... Congratulations to CHFI-FM and Global TV for features dealing with the needs of children and the issues of missing children, child abuse, and 'street-proofing'...

Note to **Gord Atkinson** gm of CFMO Ottawa: Thank you for your warm 'phone call—it's good to be remembered from 'way back in the early days of CHUM, and equally good in the case of Gord to know that he carved out such a successful career for himself... Four Seasons Radio bought B.C. stations CKKC and CFKC... **Richard Keller** moved from FMT to Creative Broadcast Reps... Ad agency news: Lovell took over Willis and the combined Toronto shop carries on under the Lovell name... And a major event was the sale by **David Cravit** of his 50% ownership of Saffer Cravit and Freedman Advertising. He and partner **Morris Saffer** each held 50% after **Don Freedman** sold his one-third share a year ago. Saffer now owns 100%; Cravit will continue as a director and creative consultant...

## COMPACT TELECINE HTC SERIES



- A comprehensive telecine system.
- Can be equipped with 16mm, 8mm and 35mm slide projectors.
- Full operation from control panel.
  - Optional remote operation.



**KINGSWAY FILM EQUIPMENT LTD.**  
821 Kipling Avenue, Toronto, Ontario M8Z 5G8  
(416) 233-1101 Telex: 06-967528

More than 10,000 guests have appeared on **Johnny Carson's Tonight Show** over the 23 years he has hosted the program... **Ben Gordon**, who appears in Global's all-Canadian comedy series *Laughing Matters*, has won a dozen international CLIO awards for humor in advertising, notably the Philishave spots... According to CBC vp **Dennis Harvey**, Hollywood produces 30 programs for every one that airs... **Jeff Gilhooly**, at CFPL London since 1974, resigned as radio news director to resume studies at UWO. He was succeeded by **Gary Ennett**, most recently a professor of graduate journalism at Western... C-FAX Victoria promoted **Kirk Northcott** to retail sales manager...

*When all of us were a little younger...* In his youth, **Don Jamieson** was sales manager for Beverage Sales Ltd., the Coca Cola bottler in St. John's, NF... Before he became president of CKCY, **Carmen Greco** was an electrical engineer with Algoma Steel Corp... **Ted Rogers**, after completing his B.A. at U. of T., obtained his LL.B. from Osgoode Hall... And word is that former CRTC commissioner **Pat Pearce**, she of the colorful eye patches, returned to her native Ireland. As a young woman, Pat was a feature writer for the London, England *Daily Mirror*... After reading our profile of **Gerry Acton** in BT (Sept/Oct), someone wanted to know his age: I think Gerry is young enough that I can mention he is 51 this year. He joined CAB when he was 20, as a recording operator... **Wes Armstrong**, CHUM Ltd. vp/sales, was a tender 15 when he joined then-CKCL Toronto (later CKEY) as a technician... We're told Ryerson's **John Twomey**, who was born in Chicago, played for a while with the NFL's Chicago Bears... 'Mazeltov' to **Lou Tomasi**, celebrating 25 years with CHYR Leamington... A fact about **Geoff Stirling**: he was in print—as president of the Newfoundland *Herald* in 1946—before getting into broadcasting by starting CJON in 1949... If you miss the broadcast writings of **Jack Miller**, he's now covering science for the *Toronto Star*... **Eugene Hallman**, the former CBC vp/gm, who was called to the bar in 1979, is now retired but keeps active as an honorary Fellow of Winters College, York U., and an active volunteer with the John Howard Society, Arts Etobicoke, and the speakers' committee of the Metro Toronto Volunteer Centre...

*Personal plug:* Three more stations now carry our weekly *Arts in Ontario* interview program; if it's not in your town and you're interested, contact Ms. Adrian Mann, Ontario Arts Council, Toronto... Some 35 years ago, **Alf Lewis** worked in CHUM News and we remember him not only for his work, but for marrying a one-time 'Miss Toronto'—**Ruby Mann**. Their three children are now all successful broadcasters: Dana, former crime reporter at CFTR, is news anchor at CBXT Edmonton; Sandra, remembered for her reporting on CBC Radio's *The World at Six*, is news anchor at CBWT Winnipeg; and Maria is a reporter for CBC Radio in Toronto. All in all, quite a record... The Canadian Film & Television Association 1985 awards will be presented on Thursday, November 21, at the Westin Hotel, Toronto. CFTA's awards are for productions on film and video tape by private Canadian producers or broadcasters... By the time you read this, Radio Awards '85 will have taken place (Oct. 23rd); given the calibre of the sponsors—RBC, BES and CABR—plus the excellent group of top-level volunteers who served on the various committees, we're certain it was an outstanding gala dinner and awards evening at Toronto's Sheraton Centre... **Lundy Sanderson**, the founding president of the Broadcast Education Association of Canada and head of the broadcast courses at B.C. Institute of Technology, is now an instructor with Northern Native Communications, Terrace, BC. **Brian Antonson**, current BEAC president, succeeded Lundy at BCIT... The Partners Film Co. and TvB have instituted a new award in the 'Bessies' program. Named for the late **Jeffrey Reneau** of Partners, who died in 1983 at age 32, it will be given for TV commercials produced by students in Canadian courses...

In a speech to the Ontario Cable TV Association, **Ted Rogers** said that the CBC should be strengthened through a re-defined mandate that would exclude it from activities offered by private broadcasters. Ted would replace the CRTC with a new regulatory body: ABC—Agency for Broadcast & Cable. And with his background, he'd likely be a good man to chair it... **Peter Classon**, executive vp of Shaw Cable, now heads the BC/Yukon region of CCTA... According to Nielsen, Thunder Bay has Canada's highest VCR penetration at 39%. Next are Kitimat, Prince George, Calgary-Lethbridge, Medicine Hat, Edmonton-Red Deer—and in a tie for 7th place are Halifax and Toronto... Other sources forecast that in Québec VCRs will be in 30% of all homes by the end of this year; 50% by 1990... Another honor came to **Diane Legris**, vp of programming for CF Cable TV in Montreal. Chosen 'Cable Woman of the Year' by Canadian Women in Cable in 1984, she was elected Québec region vice-chairman of CCTA—the first woman to hold that post...

The CRTC is expected to increase fees for broadcast licences from 1.5% of 'fee revenue' to 1.8%—however, the first level of exemption would rise from \$75,000 to \$175,000... A legend in advertising, **Donald Benson** died at 85. With **Rex Vickers**, he founded the Vickers & Benson agency... CAB chairman **Michel Arpin** presented the broadcasters' case to the CRTC for longer licence terms: 7 years, instead of the present maximum of 5... **Frank Eberdt**, vp/gm of Rogers Cable TV-Vancouver, was chosen chairman of the 1986 CCTA Convention committee...

*We get letters...*

From **Ross Hamilton**, president of CKNX Broadcasting in Wingham, Ontario: 'I always read your *Broadcast Beat* with interest—a way of keeping up on the many industry moves. I noted in the last issue a couple of references to the Tornado Radio-Thon carried on a network of Ontario stations including

CKNX AM... Of all the stations participating, the CKNX audience pledged the largest amount of money to the fund during the broadcast. But now the good news: since the radio show, money has continued to roll in at CKNX and the latest total is \$122,000. That is a real tribute to the generosity of the people of mid-western Ontario—and quite a boost to our hard-working staff.'

Moffat Communications agreed to buy the rep firm Mutuelcom, owned by six partners who, we understand, will stay on staff. It all appears to add up to a major sales drive for Moffat in Eastern Canada, when coupled with the hiring of former RBC president **Brian Minton** to head marketing in Toronto... **Len Bramson** was given an important role as chairman of Telemedia Broadcasting, responsible for development in both Canada and the U.S. and for the TSN sales organization... Actor **Larry Mann** lost his older brother, Paul, 71. Paul left Toronto in 1932 and became a leading drama coach in New York—his pupils included TV star **Hal Linden**... One of the original voices on CJAD, **Al Cauley** passed away at age 68. He joined 'AD in 1946 and became one of Montreal's best-known broadcasters... Canadian comic **Howie Mandel** signed a multi-album pact that is said to be as good as **Eddie Murphy's**, with Warner recording a concert tour and HBO special by Howie... **Peter Worthington**, the colorful journalist-broadcaster, has added a new chapter to his book *Looking for Trouble*. It deals with his defeat as a Tory MP and his discharge from the Sun Newspapers... A recent article on actor **Omar Sharif** says his son Tareq, married to a Canadian, sells time for a Montreal radio station... *I asked an elderly gentleman, 'Do you miss the good old days?' 'Actually,' he replied, 'what I miss are the good old nights'...* The never-shy **Howard Cosell**, in his book *I Never Played the Game*, says, 'I had commanded attention (on Monday night football)—I had a palpable impact on the show, giving it a sense of moment.' Without him, the show would have been 'no different from an ordinary Sunday afternoon telecast.' Trouble is, he could be right...

This *Globe & Mail* headline caught the eye: 'New book accuses CRTC of selling out to TV.' *Closed Circuits: The Sellout of Canadian Television* is by **Herschel Hardin**, broadcasting activist who has taught broadcasting politics at Simon Fraser U. in BC... **Dennis Trudeau** is the new host of *As It Happens*. A journalist who turned to radio in 1979, he was most recently host of CBC Montreal's *Daybreak*... Quote from **Ronnie Hawkins**: 'Canadian talent is 10 times better than talent anywhere in the world because they have to work 10 times harder to get anywhere'... The death of **Rock Hudson** reminded us of the time in the '50s when we interviewed him on the set of *Giant*. We found him to be a quiet, pleasant man, whose only knowledge of Canada was Niagara Falls... Which leads into **Rich Little's** statement: 'It's always been a shame how ignorant Americans are about Canada. I've always felt Canada needs a good p.r. man in the U.S.'... **Mike Darow**, the one-time CHUM announcer and freelancer, is hosting Global TV's game show, *Jackpot*—also seen on the U.S.A. Cable Network... NewsRadio has a syndicated series of interviews with authors. Host is **Lorraine Thomson**... The latest figures put BBC's annual budget at \$1.4 billion... **Charles Collingwood**, the veteran CBC correspondent who died at 68 of cancer, had an outstanding academic background. A graduate of Cornell University, he studied at Oxford as a Rhodes scholar. He joined CBS in 1941 as part of **Edward R. Murrow's** original team of reporters in London, covering World War II... NBC-TV will pay between \$300-500 million (depending on commercial sales) for the TV rights to the 1988 Summer Olympics in South Korea... The British series *Television*, seen on TVOntario, says there are 65 million TV sets and 2.5 billion viewers in 162 countries. Most avid viewers are in Japan (8 hours a day), where teachers instruct in 15-minute segments because, it is claimed, pupils are conditioned by TV's commercial breaks.

*Phil Stone welcomes your news for Broadcast Beat. Write c/o 2350 Bridletowne Circle, #1601, Scarborough, ON, M1W 3E6.*

**Upgrading/Expanding Your AM/FM, TV Facilities?**

- turnkey studio/transmitter systems design and implementation
- technical installation services for broadcasters, suppliers, consultants
- experience world wide

Call us for a quotation.

**IMMAD BROADCAST SERVICES**  
a division of AZCAR TECHNOLOGIES INC.  
Toronto, Ontario, Canada M4M 3E9  
(416) 465-2463  
\* 06-22634

Circle #123 on Reader Service Card

## people in the news

- Access Network—**Malcolm Knox**, previously with Allarcom, named gm of Television and Market Development.
- All Canada Radio & TV—appointed **Dennis Horlick** to Toronto sales mgr and **Greg Asling** to mgr, Atlantic Canada.
- Basys Inc—**Jim Cundiff** named mgr of sales/marketing for Eastern U.S., Canada.
- Broadcast Electronics—**Bill Harland**, formerly with TTC/Wilkinson, appointed national sales mgr-RF Products.
- Broadcast News—named **Wayne Waldroff** general news director, succeeding **Jim Poling**, recently appointed managing editor for Canadian Press/BN.
- BBM Bureau of Measurement—**Peter Jones**, president since 1972, has announced that he will be leaving BBM on expiry of his current contract in 1987. The organization is seeking a successor, who will work in a senior capacity until taking over as president.
- Canadian Association of Broadcasters—departing CAB are **A.G. Sandy Day**, who

is retiring as vice-president, engineering services; and **Wayne Stacey**, executive vp, who established his own broadcast consulting business as of November 1st. Stacey will be dealing with various areas, particularly pertaining to government policy and regulation, and will be technical advisor to CAB. His address is 2145 Hubbard Crescent, Ottawa K1J 6L3. CAB has named **Jan Glyde** vice-president, communications; previously with the federal government, she has worked on several task forces, including the Applebaum-Hébert Commission.

- CBC Ottawa—named **John C. Osler**, former press secretary to Joe Clark, to the board of the CBC for a three-year term.
- CBC/Radio-Canada—**Paul Rousseau**, director of French TV Sales has named **Guy Marois** to manager of regional selective sales; **Francine Gagnon** to national selective sales rep; and **Pierre Vachon** to network sales rep.
- C-FAX Victoria—**Kirk Northcott** appointed retail sales mgr. Former Saanich Police Chief **Bob Peterson** is serving as director of the C-FAX help line.

- CFLS Levis—appointments include **Gilles St-Pierre** as nd, **Pierre Picard** as gm, **Pierre Gingras** as music director, **Richard Blondin** as producer, **Jean-Pierre Maheux** as technical director, and **Alain Chouillard** as pd.
- CFPL London—**Gary Ennett** named nd, replacing **Jeff Gilhooly**, who is resuming studies at University of Western Ontario.
- CHUM Ltd—appointed **Lee Hambleton** as vp/ gm of new CHUM Québec division.
- CKRC/CKWG-FM Winnipeg—pd **Bill Gorrie** has succeeded **Gary Miles** as gm.
- CKVU-TV Vancouver—has added **Linden Soles** as anchorman of Firstnews. Other team members include **Doriana Temolo** and **Tom Walters**. Linden won an ACTRA award (best writer/performer on CBC radio series *90 Minutes With A Bullet*) and Winnipeg Broadcasters Award for radio variety/information in 1981-82.
- Clear-Com—**Michael Goddard** named national sales manager responsible for domestic and Canadian sales/marketing of intercom, headset, interface systems.

• Comlink Systems— **Les Davis** named manager, broadcast products.

• CTV—**Harvey Kirck** joined W5 as a weekly commentator. His autobiography, *Nobody Calls Me Mr. Kirck*, is being published this fall.

• GNB Battery—**Terrence McMullon** appointed sales/service representative for Eastern Canada.

• Harris Corp—**John R. Walker** promoted to marketing communications manager, long range radio division.

• Instrument Rentals, Inc.—**Brian Webb** appointed product mgr.

• JBL Professional—**Hugh J. Miller** named vp finance.

• Kliegl Bros.—recent appointments include **Michael Cowger** as director of sales, **Thomas Gulinazzo** as project mgr, and **Tom Mikotowicz** as director of marketing.

• Magnetic North—have expanded staff to include **Brian Reid** and **Peter Hodgson** in editorial services; and **Eric Johannessen** and **Ernie Moser** in film-to-tape transfer services.

## Continental's top performing 20 kW FM Transmitter speaks for a station you know\*



Reliability and proven performance make Continental's 816R-2A compact FM transmitter a winner. Crisp clear signal, high fidelity, good stereo separation, very low noise and distortion, excellent frequency stability, simple installation, low power consumption make it a great

- |      |      |      |
|------|------|------|
| WKLO | WPOC | WHFB |
| WIAC | WVOC | KBUF |
| WBYU | WWNO | WTPI |
| KSCB | WBYG | WDJQ |
| KVTT | WGER | CKDS |
| WHTC | WZPR | KMNT |
| WIGL | KNFO | KELT |
| KFXE | KODJ | KOAC |
| WLPX | WITL |      |

\*Partial list

investment. Combine with duplicate 816R-2A to get 40 kW output. For brochure, call (214) 381-7161 Continental Electronics Division, Varian Associates, Inc. PO Box 270879 Dallas, Texas 75227. © 1985 Continental Electronics/6008



**Continental Electronics**  
A Division of Varian Associates, Inc.

**Continental Electronics**



varian

• Microwave Filter—**William P. Johnson** named vp, director of engineering; **Emily Bostick** executive vp, sales/marketing.

• Mid-Canada Communications—appointments include **Chuck Liebrock** to gm, TV division; **Gerry Clifford** from operations mgr of Pembroke stations to gm, Radio division; and **Remy Gagne** to general sales mgr, radio division.

• Moffat Communications—**Brian Minton** moves from presidency of RBC to become vp, marketing, based in Toronto.

• MSC Electronics—**Richard Bartrum** has left MSC to be chief engineer at a post-production facility in Hamburg, Germany.

• NEC America, Inc.—**Tadashi Suzuki** is president/ceo, succeeding **Dr. Ko Muroga**, now associate senior vp and director, NEC Corporation, Tokyo.

• Norsat International—**Joe Melanson** named manager, TVRO sales.

• Opex/Telemedia Radio Sales—**Marc Paris**, gm of CKCH Hull, named gm of the Toronto office.

• Panasonic Video Systems—**Brian Glynn** named assistant mgr, CCTV sales.

• Radio Bureau of Canada—**Gary Miles**, vp and gm of CKRC/CKWG-FM Winnipeg, named pres. A well-known broadcaster, Miles is a past president of WAB and current chairman of BBM. He succeeds **Brian Minton**.

• Rogers Radio Broadcasting Ltd.—**Eric G. (Sandy) Sanderson** promoted to vp, programming.

• Rosco Laboratories—**Bob Johnston** has joined the Markham (Toronto) office as product marketing rep.

• A. C. Simmonds & Sons—have named **Scott Davidson** national sales manager.

• Strand Lighting—added **Debra Garcia** to U.S. marketing staff as product mgr.

• Telemedia Broadcasting Systems—**Len Bramson** promoted to chairman; **Don Pagnutti** appointed executive vp.

• Telemedia Inc.—**John Van de Kamer**, president and formerly chief operating officer, named c.e.o. Promoted to president, Telemedia Communications Inc. divisions are **Pierre Beland** (Quebec) and **Peter Viner** (Ontario).

• Television Bureau of Canada—appointed vp are **Shari Ferris**, national advertising; **Dennis Watson**, retail-local advertising, (previously with CHUM Ltd.)

• TFT Inc.—**Jesse Maxenchs**, marketing director, announces the appointment of **Kevin Lam** as applications engineer.

• TV Ontario—**Bernard Ostry** named chairman and ceo, replacing **John Radford**.

• Varian Associates—named **Joe Caldarelli** gm of Canadian Microwave Division.

# Total Radio Recall.



The Dictaphone 5600 Veritrac™ voice communication recording system is a complete broadcast recording-retrieval system that lets your radio station keep its entire broadcast day on the record. In one dependable unit you get around-the-clock verification that you're running your advertiser's spots on schedule and meeting all your CRTC requirements. So if they ask for proof, you've got it all there on tape, ready for quick retrieval and replay.

Tune into the Dictaphone 5600 Veritrac logger. And never get your signals crossed again.

## IN MEMORIAM

### David C. Rogers

Dave Rogers, 59, executive secretary of the Radio-Television News Directors Association in Canada, passed away on October 3rd, 1985, after a lengthy battle with cancer.

Born in St. Stephen, NB, he worked at stations in Fredericton and Saint John, and established a news department at CJRW Summerside, PEI. He became news director of CFCF Radio-TV in Montreal, then CHCH-TV Hamilton.

In 1961, Dave joined Broadcast News, and became general news editor in 1972. He joined the public relations staff of the Canadian Bankers Association in 1974 and retired from that position in 1983.

A founding member of RTNDA Canada, he had been secretary since its inception.

Dave is survived by his wife, Virginia, son Rick, and daughters Susan and Lynn.

### Richard J. Harasek

A 42-year veteran of Motorola Inc., Dick Harasek passed away on September 5, 1985, at the age of 60. A native of Chicago, Dick was a graduate of the Illinois Institute of Technology. During World War II, he served as an infantryman in the U.S. Army, and took part in the D-Day landing in Normandy. While with Motorola, he was credited with 17 patents, and during the past seven years became known to many broadcasters for his involvement with AM Stereo.

For more information, fill in the coupon or call toll-free:

**1-800-268-2346**

In Toronto call 621-7600

Or mail to: Dictaphone Canada Ltd.

630 The East Mall, Islington, Ont. M9B 4B2

Name \_\_\_\_\_

Title \_\_\_\_\_ Phone \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Prov. \_\_\_\_\_ Code \_\_\_\_\_

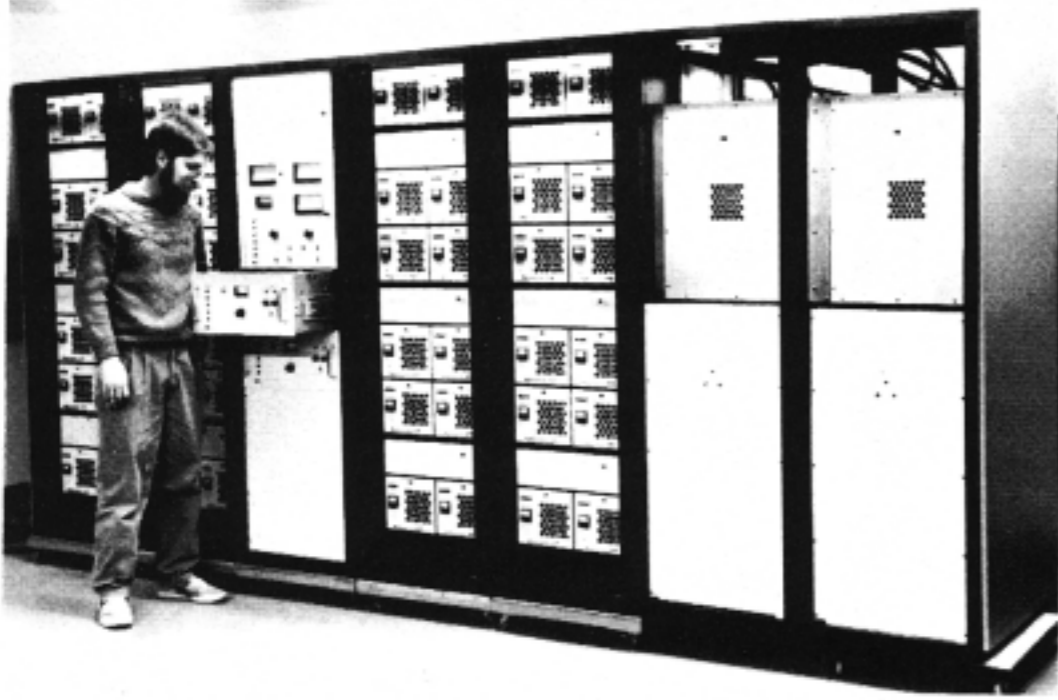
DICTAPHONE® and Veritrac are trademarks of Dictaphone Corp., Rye, N.Y. ©1985 Dictaphone Corp.

## Dictaphone

A Pitney Bowes Company

Circle #118 on Reader Service Card

## CKDQ's New Nautel TX On-Air



Above, Chuck McLean of Nautel Labs checks the CKDQ Drumheller 50 KW AM Transmitter being prepared for its final factory tests prior to shipment. The transmitter is set to be operational on Nov. 1, 1985.

This transmitter embodies the latest FET technology and offers the following features:

- 100% solid state design
- 74% over-all efficiency
- Modular construction for maximum redundancy
- Front access for easy servicing

Circle #213 on Reader Service Card

## Audio Cartridge Eraser Splicefinder



The Sonifex HSE is an automatic eraser-splicefinder, based on the rugged CQ N.A.B. cartridge mechanism. The unit is compact, measuring only 3" x 6 3/8" x 10" deep, and operates at 95 cm/sec. It can be used as an eraser-splicefinder or as a splicefinder only.

When a N.A.B. cartridge is inserted into the slot, the tape is first completely erased using a 400 kHz erase current of high purity, giving a very low tape noise figure. After erasure the splice is detected mechanically through the pinch roller movement, and the machine stops with the splice 25 mm beyond the capstan. A flashing LED indicates that the splice is located.

- Erasure: better than 70 dB for saturated tape.
- Tape noise: -51 dB ref 0dB 160 nWb/m, peak weighted.
- Power requirement: 240V 50Hz or 110V 60Hz, 20 VA.
- Weight: 2.85 Kg.

Circle #215 on Reader Service Card

## NEC: Pioneer in Stereo TV



- Every major TV set manufacturer has introduced multichannel receivers in 1985.
- NEC introduced VHF and UHF transmitters with full stereo sound in 1977, and is acknowledged as one of its pioneers.

So, stereo TV is nothing new at NEC. They prototyped it way back in 1969, and signed on their first multichannel transmitter in 1977. Since then, NEC has installed more than 100 stereo TV transmitters in Japan and Australia (with the well-proven technology found in more than 1400 NEC transmitters around the world.)

Stereo TV is already here, and right now NEC has a full line of multichannel transmitters, with output powers up to 35 KW.

Start preparing today for dependable Stereo TV. Talk to MSC.

Circle #214 on Reader Service Card

## Need Information on TV Stereo???

TV Stereo is rapidly becoming a hot topic, and is generating questions such as: what are the systems building blocks? what audio processing is available? what is the least expensive way of getting the stereo signal to the transmitter? etc.

MSC has available, brochures which cover the entire TV Stereo package for the broadcaster including:

- The Orban 8182A TV Optimod
- The Orban 8182A/SG Stereo Generator
- The Orban 8182A/SAP Second Audio Program
- The Orban 245F Stereo Synthesizer
- The TFT 850, Stereo Aural Modulation Monitor
- The TFT 8500/8501 Subcarrier Modulator/Demodulator

To receive your package, please Circle #216 on Reader Service Card

## Autocue

The best known name for prompting in television has now moved on to computer technology for script creation, script editing and studio prompting.

The Autocue 1000 software is written by the Autocue in house software team to provide all the features and functions desired by a television producer and 'on air' talent.

If you want to upgrade your prompting facility or wish to start off with the best, Autocue 1000 is for you.

Autocue also continues to offer their conventional script paper transport systems, their compact 'on camera' display heads, and a new mini prompter for Eng or small studio use.

Autocue is represented in Canada exclusively by MSC VIDEO.

Circle #217 on Reader Service Card



**m.s.c. electronics ltd.**  
147 west beaver creek rd., richmond hill, ontario L4B 1C6  
(416) 731-9500, telex 06-964822

*maritime region*  
dial toll free from area codes 506, 902 and 709  
1-800-268-3265

*quebec region*  
**m.s.c. electronique quebec ltee**  
999 grand blvd., chambly, québec, J3L 1W2  
(514) 658-0665, telex 055-62171, local 628

*western region*  
730 buckingham rd., winnipeg, manitoba, R3R 1C2  
(204) 885-5471, telex 07-57183