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CATV

September 15, 1969

Authoritative Newsweekly of Cable Television



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OUR COVER

Frederick W. Ford, president of NCTA, signs letter. Ford told McClellan, chairman of Copyright Subcommittee, that a breakdown of negotiations will mean that the likelihood of an industry generated solution is improbable.



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Conspectus

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NCTA President Ford outlines NCTA-NAB copyright rift for Senator McClellan; asks for legislation encompassing CATV.

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General Telephone sells Illinois system in face of regulatory pressures; telco troubles mount in Florida as well.

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NCTA chairman Adler lauds Justice Department filing on copyright; says filing balances scales for CATV side.

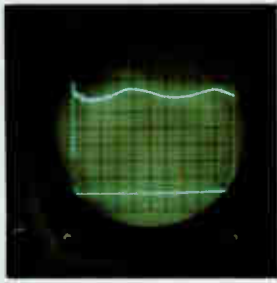
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Senator Torbert Macdonald promises House hearings on CATV; plans testimony by NCTA-NAB committee members.

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RESPONSE

Here's the response of the PII-LE Line Extender as it comes from the factory, checked with 14 dB of cable and 7 dB flat loss. Note that it is well within ± 0.5 dB between the 50 and 260 MHz markers.



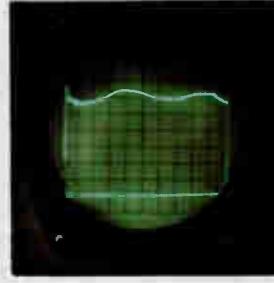
CROSS-MOD

Cross-modulation distortion is specified at -72 dB for a $+38$ dBmV output. The readout shows cross-mod down more than 73 dB (60 dB range, 13+ on the meter).



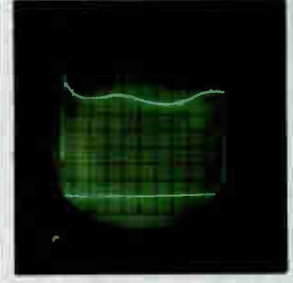
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Robert A. Searle
Editor

Viewpoint

The "Information Gap" In CATV

Later reaction has confirmed what an initial telephone check indicated a week ago. . . that cable people's response to the Adler-led walk-out on copyright negotiations is overwhelmingly in support of the move. That is not particularly surprising; NCTA in the past has nearly always had the support of its members. . . and many non-members as well. . . behind any decisive action its officers have taken. The association, as a matter of fact, has more often been criticized for *inaction* than for action. Comments about a do-nothing administration have always been far more frequent than serious disagreement about actual working programs.


Such criticism is always well-intentioned—and sometimes well-deserved. In the case of NCTA, however, it is not deserved quite as often as it is received. Often progress *is* being made; but since no public notice is given or taken, the work being done quietly behind the scenes goes unappreciated. One good example is the copyright negotiation work that has been going on for so long. Up until last week, when the negotiations blew up, most operators knew very little indeed about the details of what was actually happening. Another example is the search for a successor to NCTA president Frederick W. Ford. The appointed committee of four has been working long and arduously to find the right man for the job. . . not an easy task at best. But since so few public statements have been made, and with rumors of all sorts circulating, mistaken conclusions have quite naturally been drawn as to the pace and importance, as well as results, of the search.

Many of the areas in which NCTA works—including the two mentioned above—are extremely sensitive, and areas where one would not expect detailed information to be up for grabs. Nevertheless, we suggest that NCTA ought to be alert to the problems which inevitably accompany an "information gap."

Perhaps most critically affected are non-members who do not necessarily have access to association information or to the NCTA spokesmen who speak at various regional meetings. A partial solution, of course—and one which we have often urged—is for more operators to join the national association. At the time of his election, Adler stated as one of his goals increased membership. This being so, the association might well give some thought to how better liaison with *all* operators can both spur interest in membership and knit the cable community into an even more cohesive unit.

Even members, however, are often left in the dark as to what is going on in Washington. If the effectiveness of trade association depends—as we believe it does—largely on the sense of participation and belonging of its members, then NCTA has much to lose by allowing an "information gap" to develop or to grow. The elected officers and paid staff members of NCTA have a great deal of credit coming to them; for their sakes and for the health of the organization, they ought to be sure their efforts are recognized.

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Ford Explains NCTA-NAB Split; Asks McClellan For CATV-Included Bill

NCTA head calls industry-generated settlement improbable, says separate CATV copyright legislation undesirable. Asks for prohibition against FCC copyright tampering.

A detailed chronological listing of the ups and downs of negotiations between NCTA and NAB was given to Senator John O. McClellan (D-Ark.) last week as NCTA president Frederick W. Ford wrote the Senate Copyright Subcommittee Chairman about the break-down of talks.

The letter from Ford was the NCTA's response to McClellan's request for "position papers" by Aug. 31. Ford had asked for and received an extension of time for comments.

Ford said that "on the basis of our past dedicated and strenuous efforts to reach agreement on these problems, we are convinced that the likelihood of an industry-generated solution to the CATV copyright and regulatory issues is improbable."

Copyright Preference

Ford urged McClellan to forge ahead with copyright legislation including CATV provisions. "We, at NCTA, would much prefer," Ford wrote, "that the general copyright revision bill contain provisions governing the copyright payment by CATV systems. We feel very strongly that CATV should not be omitted from the bill and left to the uncertainty of separate legislation. We further believe that the Copyright Law should be exclusive and that the imposition of requirements for copyright clearance by administrative fiat on an unappealable temporary basis or any other basis, such as that employed by the FCC in its December 13, 1968, notice be expressly prohibited."

In giving McClellan copies of the staff compromise agreement and letters concerning it, Ford stressed repeatedly that the compromise was adopted not as a departure point for new discussions but as a complete package whose separate components could not be taken as accepted unless there was agreement on the entire compromise.

"We are mindful," Ford wrote McClellan "that this is the second general acceptance by NCTA of a negotiated settlement of differences on CATV with representatives of NAB, only to have them rejected by the NAB board of directors. There seems little prospect that the present NAB group would have more success than the last two in winning NAB board approval of a negotiated settlement."

Talks Not Fruitful

He said that at the conclusion of the meeting on Sept. 4, 1969, it was obvious to NCTA representatives that in light of the verbal proposals of the NAB subcommittee, further discussions would not be fruitful or serve any useful purpose.

"A similar conclusion," Ford said, "resulted from more than fifty meetings during the past two years with representatives of copyright interests. At the final meeting with representatives of the owners of film copyright, which I attended in April of this year, it was clear that there was no possibility of arriving at an agreed solution by the two groups.

"We must therefore advise you," he

said, "that as of this time there are no agreements in any area which can be reported to you, and none appear likely in the foreseeable future."

Florida Telco Swept Along With FCC Current

While the General Telephone cable systems were taking a beating from the FCC on one front last week (see separate stories), the Commission was also gearing up to slap General Telephone and Electronics Corp., General Telephone Co. of Florida and GT&E Communications, Inc. for their activities in Manatee county, Fla.

The Commission told the companies that they are prohibited from construction of any CATV channel distribution facilities in the county until they win Section 214 certification. They were also forbidden to operate any CATV channel distribution facilities in the county that they hadn't completed and put in operation prior to Aug. 4.

It was on that date that the FCC ordered the General Systems to show cause why a cease and desist order should not be issued against their CATV operations in the county. The hearing on this phase of the case is scheduled to begin Oct. 13.

Manatee Cablevision, Inc. is the chief opponent of the General Systems in the county. The CATV firm earlier charged that G'Tec continued to build facilities and hook up subscribers in violation of

(Continued on Page 20)

BULLETIN

General Telephone Sells In Face Of FCC Order

Less than a week after the FCC issued its cease and desist order against General Telephone's cable system activity in Bloomington and Normal, Illinois (see separate story for full details), the telco has decided to sell the system. The Commission stayed the effect of its earlier order to allow General to transfer the franchise to rival Telecable Corp.

Decision to stay the cease and desist order was unanimous since the FCC was convinced that "early com-

mencement of CATV service to Bloomington and Normal by a qualified operator would be in the public interest."

The telco's decision to abandon ship needs to be cleared by the Normal city council this week. Bloomington city officials have already approved the transfer. General Telephone still plans to appeal the FCC's actions and will retain an option to repurchase in case the appeal is successful.

Justice Department Filing Adds Weight To Cable TV Side Of Scales

NCTA Chairman Adler says that Justice filing amounts to strong attack on anti-CATV bias. Justice tells FCC that because of lack of evidence proving CATV injurious, restrictive policies should be lifted.

NCTA National Chairman M. William Adler last week praised the Justice Department's filing at the FCC on the role of CATV in the nation's communications system.

Justice had criticized the proposed staff compromise by NCTA and the National Association of Broadcasters as over-protective of broadcasters, and now that all compromise talks between the trade groups are off, Adler's support of the Justice Department amounts to a strong counter-attack on anti-CATV forces in the broadcast camp.

In its comments at the FCC, justice acknowledged that the staff compromise agreement has been turned down by NAB, but said it wanted its views on record in case the compromise should be revived. Justice made the point that CATV has fantastic possibilities for diversity in programming because it is not limited by spectrum availabilities, and that unnecessary restrictions should not be placed on signal importation or other programming.

"It appears," Adler said, "the Department of Justice is advising the FCC to re-examine its regulatory bias against cable. The Commission's regulatory policy has always been to restrict the number of broadcast signals CATV could carry on the unsubstantiated belief that CATV has the possibility of adversely affecting broadcasting.

Efforts Collapsed

"There is nothing we would like better," Adler said, "than to be able to do with CATV some of the things Justice expects. But our industry has been virtually frozen since the FCC's December 13 ruling. Accordingly, we entered into serious discussions with broadcasting representatives in an effort to give Congress and the FCC assistance in their work with our very difficult problems." But those efforts finally

collapsed, he noted, and the compromise worked out by the staffs was as far as NCTA would go.

"It has long been our belief that, as Justice implies, there is no necessity for



Mr. Adler

the FCC's restrictive policies on cable. We have time and time again attempted to persuade the Commission to determine factually whether CATV's provision of additional television choices to the public would prove injurious to broadcasters, and in the absence of such data to encourage rather than repress CATV's development."

NCTA Comments To FCC: Asks For "Free Entry"

Commenting on CATV's emerging role in national communications policy, NCTA in comments filed at the FCC said that "the commission should reject its present policy of protectionism, and encourage and permit the free entry of all newcomers into the communications complex, in an atmosphere of free competition, fulfilling the Commission's statutory obligation."

NCTA's comments were among the

stacks received at the Commission, including ones from the Justice Department that drew a warm comment from NCTA Chairman Bill Adler (see separate story).

NCTA told the Commission to avoid rigid CATV controls and to allow it to develop into the communications center it could become. NCTA also suggested that a government-industry advisory committee should be established to study and recommend technical standards so that in the future CATV systems can be compatible for interconnection and so that TV and CATV performance standards can be integrated.

Macdonald Says CATV Hearings Will Resume

Representative Torbert H. Macdonald (D-Mass.), chairman of the House Communications Subcommittee, last week said that CATV hearings would be resumed "as soon as practicable."

The statement by Macdonald was prompted by the breakdown in negotiations between NCTA and the national Association of Broadcasters. The new round of CATV hearings, the Macdonald announcement said, is "to explore the prospects for a legislative solution to the conflicts between the cable and broadcasting industries." The solution, Macdonald said, must be in "the public interest, while taking advantage of cable as well as broadcasting technologies." Other factors to be taken into consideration are "the business interests involved, including the producers and owners of broadcast programming."

The hearings announcement said that witnesses will be asked to "propose specific legislative suggestions that can help define over-all national policy," and that the role of multi-channel as well as broad policy proposals will be considered."

The subcommittee plans to ask for testimony from members of the NAB and NCTA negotiating committees, from staff members of the two trade groups, and from the FCC, plus a spokesman for program owners. Copyright angles will be discussed, through the Senate Copyright Subcommittee members from other committee chores.

FCC Order Halts G'Tec In Bloomington-Normal

A tough cease and desist order, written by FCC Commissioner H. Rex Lee, was delivered to the General Telephone System on Sept. 5, as the Commission told it to halt building or operating CATV distribution facilities in Bloomington and Normal, Illinois, until and unless it can get Section 214 certification from the FCC. And the order made it plain that 214 certification will be hard to win now.

The order involves General Telephone Co. of Illinois (GTI), General Telephone and Electronics Corp. (GT&E), and GT&E Communications Inc. (G'Tec). G'Tec won a franchise in Bloomington and Normal, and GTI applied for 214 certification. But two other CATV franchise hopefuls, Telecable Corp. and Perfect Picture Corp., opposed the 214 grant. Telecable later complained that G'Tec was planning to go ahead with its CATV service without 214 certification, and the Commission ordered the firm to show cause why it should not be issued a cease and desist order.

G'Tec's argument was that it is not a Common Carrier operation requiring 214 clearance (though its parent firm is). The Commission said it found "ample justification for piercing the corporate veil of the General System companies and for treating G'Tec and GTI as a single operation which has undertaken the construction of communications facilities which are subject to the certification requirements of Section 214 of the act."

Forfeiture Possible

G'Tec also told the FCC that if it can't go ahead with construction and operation of the CATV system, it faces possible forfeiture of a substantial amount of money on its performance bonds. The Commission decision said, in effect, that it was tough luck. The financial risk, the FCC decision said, "creates no equities in favor of the respondents. The filing of the bonds was the means by which respondents took unfair advantage of GTI's favored position as a common carrier in the communities involved. It was the assurance of expeditious commencement of service supported by the bonds which enabled G'Tec to eliminate its competition and to obtain awards of

the franchises. We cannot now allow respondents' wrongdoing to further accrue to their benefit by advancing the possible financial loss, through forfeiture of the bonds, as a reason for withholding the issuance of a cease and desist order."

FCC Footnote

In a footnote that should cause further gloom in the General System offices, the FCC added: "In any Section 214 certification proceeding, the record herein and our findings based thereon with respect to the anti-competitive conduct in which the General System companies engaged will be taken into consideration. Consequently, the applicant will be faced with a very heavy burden to establish that the issuance of a certificate of public convenience and necessity for the construction of channel distribution facilities in Bloomington and Normal for a CATV operated by G'Tec, GTI or another General System company would be in the public interest."

NARUC Annual Meeting To Include CATV Notes

The National Association of Regulatory Utility Commissioners will hold its 81st Annual Convention in Denver, Colo., Oct. 8-9, and CATV is going to be on "a list of multi-billion dollar questions with some multi-billion dollar answers."

NARUC said that speakers at the convention will include Peter Flanigan, assistant to the President for Federal-State Affairs and the key White House figures in dealing with new FCC appointees, and Dan O'Neal, counsel of the Senate Commerce Committee, which handles communications matters, including CATV.

NCTA general counsel Bruce Lovett will be a panel member at the convention, NARUC said, as will be FCC general counsel Henry Geller and Senate Commerce Committee Chairman Warren Magnuson (D-Wash.).

The association estimates that more than 1,400 persons will attend the convention, last held in Denver in 1899. More than 180 commissioners are active members of NARUC and some 3,500 of their staff members hold associate memberships. Aside from federal agencies,

NARUC includes the Utility and Transportation Commissioners of "the 50 states, District of Columbia, Commonwealth of Puerto Rico and the U.S. Virgin Islands," NARUC noted.

In light of increased activities in the Public Utility Commission-CATV regulatory field, the cable industry will have a watchful eye on Denver this October.

MEETING CALENDAR

SEPTEMBER

15-16—Pacific Northwest CATV Association fall meeting. University Tower Hotel, Seattle, Wash.

22-24—"Workshop for Antenna Site Engineering." National Cable Television Center, J. Orvis Keller Bldg., Pennsylvania State University, University Park, Pa.

23-25—Pennsylvania Community Antenna Television Association annual fall meeting. The David Mead, Meadville, Pa. Plans are being formulated and will be announced later.

26-27—Tennessee Cable Television Association annual meeting. Howard Johnson's Motor Inn, Gatlinburg, Tenn.

OCTOBER

20-21—North Central CATV Association fall meeting. Playboy Club Lake Geneva, Wisc.

13-15—"Seminar for Antenna Site Design and Maintenance." National Cable Television Center.

20-21—Mississippi CATV Association Annual Meeting. Broadwater Beach Hotel, Biloxi, Miss.

30-31—Mid-America CATV Association. Prom-Sheraton Motor Hotel, Kansas City, Mo.

NOVEMBER

6-8—NCTA Cablecasting Seminar. National Cable TV Center, Pennsylvania State University, University Park, Pa.

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Pennsylvania To Host CATV'ers For Meetings

Next week will be a "cable TV" week in Pennsylvania. Two important meetings will draw prominent cablemen in Pennsylvania as well as those from outside the state to Meadville and University Park for the Pennsylvania Cable Television Association annual meeting and the Antenna Site Engineering Seminar (see separate story).

The Pennsylvania Association, Sept. 23-25, will hold its annual meeting in Meadville, with Meadville Master Antenna, the town's system, as host. Election of officers, "CATV Via Satellite" presented by a group of cable and satellite experts, and a panel of four equipment manufacturers demonstrating advancements in the CATV industry are among the highlights of the association program.

With expectations of attendance at 150-175, the meeting promises to be one of the "best-ever" state conventions. The attendees will be welcomed by Meadville Mayor, Francis T. Rice, after a tour of the impressive new facilities of Meadville Master Antenna, Inc.

Listed among sessions at the event are: "The Development of a Cablecasting Program... A Case Study" by James H. Strickler, director of cablecasting, Meadville Master Antenna, Inc.; "Electronic Editing of the Ultimate Product" by Matt Spinello, manager CCTV workshop, Ampex, Inc.; "Income Production Possibilities of Cablecasting" by J.T. Hoey, manager of Tel Com Inc. and Brad Stuart of Reeves Actron.

A panel representing four manufacturers of CATV equipment will present demonstrations on cameras, lighting and videotape. Included are James E. Landy of International Video Corp., Arie Landrum of Berkey Colortran, Inc.; Len Frankowitz of Chester Electronics; and Ken Lawson of TeleMation.

"CATV Via Satellite"

Banquet speaker Dr. Gabriel B. Olfiesh, director of educational technology for the Catholic University of America, Washington, D.C., "Special Feature Future Programming and Service Possibilities by Cable" presentation

by J. Norman Penwell, director of engineering, NCTA Robert Briskman, and George V. Hart of Comsat speaking on "CATV Via Satellite" along with

"Diversity Concept" by Frank N. Cooper, president of Gridtronics, will round out the state association's annual meeting.

Center To Open "Pro Level" Seminar

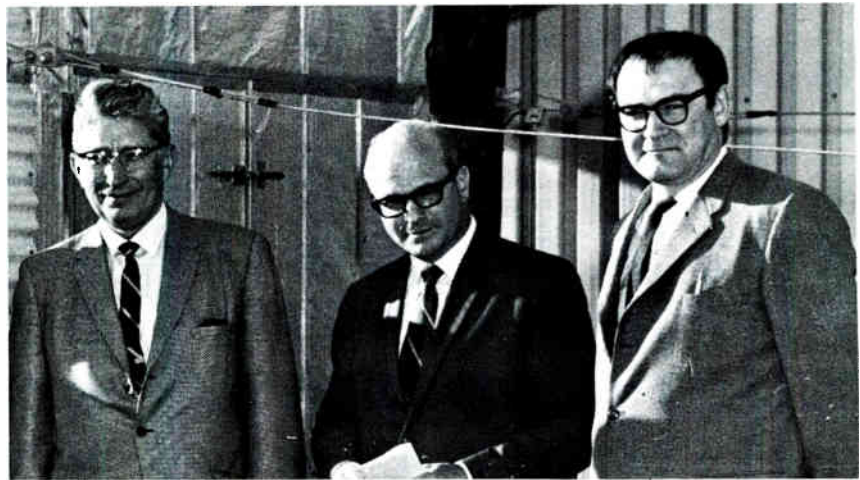
The first attempt of the National Cable Television Center, Pennsylvania State University, to sponsor a professional-level seminar on antenna site engineering will get under way next week at the university, in University Park, Pa.

The event has been promised by the center to be one of the most thorough investigations yet, of antenna site engineering and design

well, director of engineering, NCTA.

Topics for discussion at this conference will include color TV signal analysis, processing methods used at the TV transmitter, heterodyne and demodulation/modulation conversion techniques, precision test equipment, and test instrumentation

The second course, a seminar on antenna site design and maintenance, will be held Oct. 13-16, 1969. The



Seminar speakers Taylor, Penwell, Switzer

from a systems and operator viewpoint.

In hopes of developing a series of these meetings for those inside the CATV industry and those outside as well, the center has billed top experts in the field.

The center is funded by the National Cable Television Association, and since attendees will have a working knowledge of and experience in antenna site engineering, considerable interchange between participants is anticipated.

The first conference will be held next week, Sept. 22-24. It will feature four of the top experts in cable TV: Joseph Stern, vice president, engineering at CBS; I. Switzer, chief engineer, Maclean-Hunter Cable TV; Archer Taylor, Malarkey-Taylor Associates, Inc.; and Norman Pen-

well, intended for system technical supervisors and chief technicians, will include some of the basic design concepts as well as discussions of successful design practice and maintenance procedures.

Topics to be included will be heterodyne, demodulation/modulation measuring techniques, equipment layout, methods switching, preventive maintenance, and troubleshooting.

The staff for this seminar will include Kenneth Brubaker, manager of Altoona Video Corporation, and Larry Roeshot, technical director of the National Cable Television Center, along with other guest speakers. Enrollment for the first conference will be limited to 40, and for the second seminar the limit will be 60 attendees.

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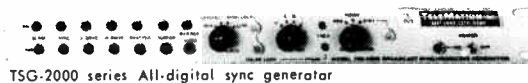
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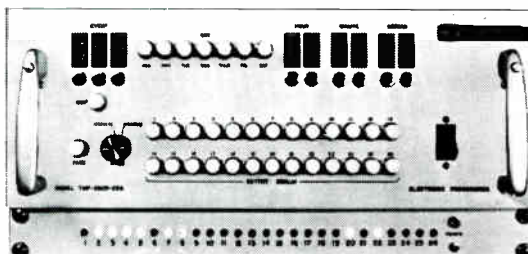
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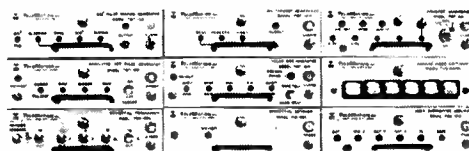
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Action Still A Possibility From "Do-Nothing" 91st Congress

CATV Washington Bureau—The "Do-Nothing" Ninety-first Congress—That may be the battle cry of Republicans next year as they try to convince the voters of America that a Republican in the White House deserves a majority on Capitol Hill. And the plodding record of the Democratic majority this year, in the first session of the Ninety-first Congress, will be pointed to as proof that nothing's being done.

Many of those in the CATV industry may be forgiven if they go along with this widespread feeling about legislative lethargy. A CATV operator, after all, is likely to feel that the industry is desperately in need of legislation to impose order on this segment of the communications business and protect him from the bone-crushing economic opposition of the broadcast industry. Furthermore, any Congressman who is at all familiar with CATV would agree that legislation is urgently needed. So why is Congress, as on so many pressing legislative matters, a "do-nothing" assembly?

First of all, Congress is designed to be slow to act. There are far more parliamentary rules to slow action than to speed it, and one favorable result is that rash and ill-considered bills are rarely passed. There is plenty of opportunity for any possible opponent, either individual or special interest, to point out any defects. Rash legislation that is passed by one body—House or Senate—has a tendency to languish, often unmentioned, on the other side of Capitol Hill and quickly pass into oblivion.

Powerful Special Interests

In the case of CATV, the special interests at stake are so powerful and conflicting, and the subject is so difficult to legislate, that there has been a strong congressional bias in favor of doing nothing until the industries involved settled their affairs. Why, it might be asked, is a compromise waited for when some basic legislation might clear the air for reasonable CATV growth? One reason is that practical Congressmen know they will make enemies on one side or the other and that, furthermore, as long as the opposition is so strong, the bill will never be enacted into law anyway.

But just because the first session of the Ninety-first Congress hasn't whizzed through a dazzling collection of legislative masterworks, don't be misled by all the cries of "do-nothing."

The mark of a good Congress is not always the volume of legislation it turns out. And the Ninety-first, reacting to deep public moods, seems ready to act "with all deliberate speed"

on a number of issues that are central to the country's life—tax reform being chief among them. The tax laws are as complex and as antiquated as the catacombs of Rome, and not the sort of thing that one revises after a snappy hearing and five minutes' thought. Although it is very unlikely at this point, and without a compromise agreement between NCTA and National Association of Broadcasters in effect, Congress *may* even act on a CATV law or two. Sen. John L. McClellan (D-Ark.) and his Copyright Subcommittee are pledged to take some sort of action. That action now is conceded to necessarily include CATV. Rep. Torbért Macdonald (D-Mass.) and his House Communications Subcommittee are trying to resume hearings and may report out a bill. Neither one is likely to produce "instant legislation," but both efforts may result in bills calling for a national CATV policy along the lines of the earlier NCTA-NAB compromise agreement. If such a bill doesn't pass this year or next, during the second session of the Ninety-first Congress, it will be there to gather support for some future action.

Delicate Handling Required

One of the most interesting things to watch as CATV legislation develops is the technical handling of whatever Bills result. McClellan evidently plans comprehensive legislation that will encompass both the copyright and the regulatory aspects of CATV. Those regulatory aspects, however, are properly the province of the Senate Commerce Committee and its Communications Subcommittee, which is chaired by Sen. John O. Pastore (D-R.I.). Initial Copyright Subcommittee plans call for reporting out the dual Copyright-Regulatory Bill to the full Judiciary Committee and then, assuming it is accepted by the full committee, sending it to the floor of the Senate with the request that its consideration be delayed a month or two for Commerce Committee review of the regulatory aspects. If the Commerce Committee isn't delicately handled so that it receives its due, ruffled senatorial feathers could cause the legislation to be torpedoed, whether it was in the public interest or not. It will be remembered that a couple of years ago the House had a Copyright Bill with regulatory aspects in it on the House Floor, and House Commerce Committee chairman Harley O. Staggers (D-W.Va.) was so upset at not having been consulted that he killed the CATV section of the copyright revision bill. If McClellan acts, he will not consult the House side, of course; But if and when the Senate legislation reaches the House, handling of the copyright and regulatory aspects will have to be just as delicate there.

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Moving Up

Myles F. Dolan has joined Vikoa, Inc., as corporate vice president of financial and administrative services. Dolan was formerly with Amerace-Esna.



Mr. Van

Mr. MacPhail

Crawfordsville (Ind.) Community Cable Corp. has announced the formation of Cable Productions, Inc., and named Jack Cunningham as manager. In his new position, Cunningham will coordinate and direct local news, sports and feature programs along with soliciting advertising for the system's new local origination programming.

TelePrompTer Corp. has announced the appointment of Gregg L. Smith as administrative assistant to the vice president and Edward Basista as chief video engineer, both in the firm's CATV Division in New York. Smith has been assistant to the director of engineering since joining TelePrompTer in March, 1967. Basista, who joined TelePrompTer in 1951, is transferring to the CATV Division from the Group Communications Division.

Robert A. Searle, vice president of publications, Communications Publishing Corporation, has announced the appointment of D. Stuart MacPhail as assistant editor of *TV Communications*, monthly professional trade journal of the CATV industry. MacPhail brings background in radio broadcasting and public relations to his new position. He will be responsible for the development of both feature articles and monthly sections, and coordinating production.

Eugene A. Baril, Barrie W. Braden and James T. Luker have received new managerial appointments for CATV systems in the Midwest Division of



Mr. Braden

Mr. Landrum

GT&E Communications, Inc. Baril has been named division marketing manager, Braden is manager of the Adrian Tecumseh (Mich.) system, and Luker is manager of the Winchester (Ind.) system with added managerial responsibilities for the Angola (Ind.) system.

John Van has joined Microwave Associates, Communication Equipment Division as national regional sales manager. Van will direct regional sales activity in the CATV and broadcast common carrier fields. He was previously with Andrews, Inc.

Modern Talking Picture Service, Inc. has announced the appointment of Carl D. Sallach as an account executive at its New York City headquarters. Sallach was formerly in sales and sales management with Avis Rent-a-Car.

Joseph N. Tawil, president of Berkey-ColorTran, Inc., has announced the appointment of Arie Landrum as regional marketing manager for the division which markets lighting equipment which has application in cablecasting. Landrum will headquarter in Lexington, Ky. and service ColorTran franchised dealers in Ohio, Michigan, Kentucky, Tennessee and western Pennsylvania. Landrum was formerly program/production manager of WLCY-TV, in St. Petersburg, Fla.

Franchise Activity

ARIZONA: Keams Canyon: Clark's TV, Inc. has entered into a contract with the Hopi Tribal Council and the Bureau of Indian Affairs to construct a cable TV system. The system will be tribally owned and will serve only to the government complex.

ARKANSAS: Monticello: The city council has received a franchise request from Central Telephone and Electronics Corp. The company applied similarly at **Warren**.

CALIFORNIA: Colton: The city council has received a franchise bid from Zythum Enterprises to operate a CATV system in the community. . . **Inglewood:** Cablecom General has applied to the city council for a non-exclusive CATV franchise. . . **La Mirada:** The city council has received a franchise proposal from Cablecom General Inc. The firm revealed plans for an all-underground cable system. . . **Long Barn:** Andre's Radio and Television has been granted a 20-year franchise by the board of supervisors. . . **Santa Clara:** The city council has adopted an enabling ordinance which allows CATV service to operate. The ordinance provides for a two percent minimum franchise payment.

FLORIDA: Bradenton: The city council has received a franchise request from Manatee Cablevision Inc. for a non-exclusive franchise to provide service to the eastern section of the city. . . **Chatahoochee:** Martin County Cable Co., has been granted a franchise by the county commission. . . **De Land:** The city commission has passed an enabling ordinance and mailed copies to the 19 prospective bidders. . . **Stuart:** The county commission has given a franchise to Martin County Cable Co. . .

GEORGIA: Thunderbolt: The town council has granted a cable franchise to Savannah Cable Television Inc. and set a \$500 beginning fee along with an annual fee and taxes to be levied.

MARYLAND: Onanock and Onley: Town officials for both communities

have granted a franchise to Bayshore CATV, of which Ned W. Cogswell is listed as an officer.

MISSOURI: California: The city council has passed an enabling ordinance for a permit to Nationwide Cable Television Corp. of Oklahoma City. A starting date has not been set. . . **Portageville:** The city council has granted a franchise to the Ralph Boyer Contracting Company. . . **St. Charles:** St. Charles Community Cablevision Inc., has submitted a franchise bid to the city council proposing a 5% of annual gross payment to the city.

NEW HAMPSHIRE: Derry: The board of selectmen has received a franchise request from Northeast Cablevision Corp. to install a 14 channel cable system.

NEW JERSEY: Belvidere: The town council have received franchise requests from Warren Cable Co., Washington

Cable Co., Suburban Propane Gas Co., and D. J. Antennavision, Inc.

NEW YORK: Perinton: Voters have approved a second cable television franchise. Monroe Cablevision, receiving no objections, received permission after an enabling ordinance was passed. The first cable firm to receive a grant was People's Cable Corp.

OHIO: Cambridge: A 10-year franchise has been granted by the city council to TV Cable System, Inc. A flat \$500 per year fee is required by the non-exclusive ordinance. . . **Clyde:** The Fremont News-Messenger Co. and Continental Cablevision have applied for franchises to the village council. . . **St. Clairsville:** The village council has granted a franchise to Wheeling Antenna Co. for a period of five years.

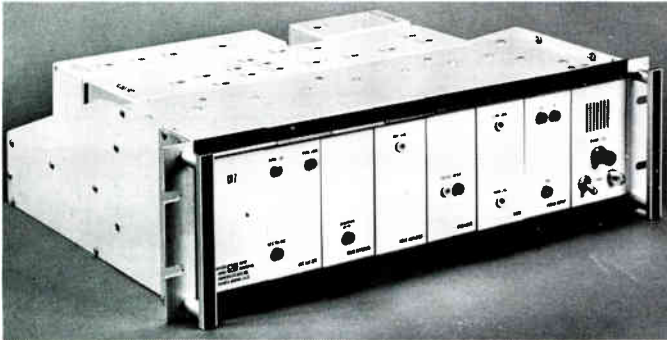
PENNSYLVANIA: Collier: The board of commissioners has granted Centre Video a 15-year franchise. Promised to the community subscribers are local origination and a news and weather service which will broadcast public service messages.

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Product Progress

SOLID STATE DEMODULATOR



New from Scientific-Atlanta, P.O. Box 13654, Atlanta, Ga., the Model 6200 Demodulator is said to be totally solid-state and features a phase-locked synchronous video detector system. Quadrature distortion is said to be eliminated through the use of synchronous detection and the manufacturer specifies that new minimum levels of differential gain and phase distortion have been achieved over previously existing equipment. The outputs of the unit are Video, 4.5 MHz Aural Carrier, and Audio.

HTV SPECIFICATION SHEETS

HTV Systems, Inc., 10 Monroe St., East Rochester, N.Y. 14445, now has available for distribution, data-specification sheets covering its Vista 20 Series of solid state amplifiers and line extenders. Separate sheets are devoted to each of the following items of the firm's equipment: The L-20-L Combination Trunk, Bridging, AGC amplifier, with Sub-VHF for two-way transmission; the L-20 combination trunk, bridging, AGC Amplifier; the S-20 Multipurpose Trunk and Distribution Amplifier; and the E-20 Line Extender Amplifier. A fifth sheet covers the full line.

PORTABLE LINE LAYER

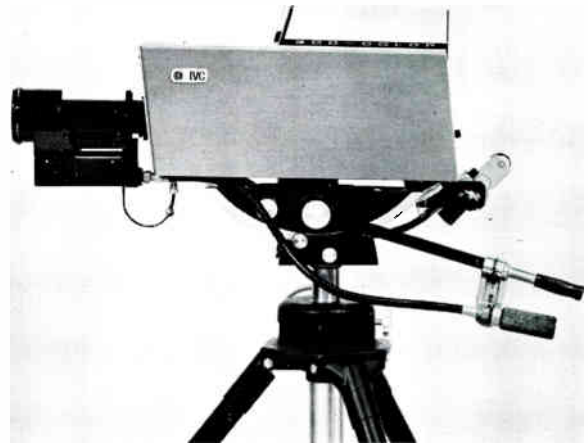
A portable service line cable layer, designed primarily for use on yards and finished areas, has been introduced by Vermeer Manufacturing Co., Pella, Iowa 50219. The CL-15, a 12 h.p. machine, is designed to bury cable approximately 15" deep (standard) and can be transported to and from job sites by a pickup, trailer or van. The manufacturer says that no backfilling or re-landscaping is necessary. High flotation tires, individual drive wheel control and variable speed hydraulic power are specified.

NEW PLASTOID CABLE

Plastoid Corp., 4261 24th St., Long Island City, N.Y., has made available a new "Super Drop" 6/U modified coaxial cable designed for long house-drops and for head-end installations. Called the PP-24642, the unit features No. 18 solid bare copperweld conductor, foam poly dielectric 7 ends of .0056" bare copperweld drain wire, an 8 mil aluminum-poly tape

shield applied longitudinally with an overlap that is said to provide 100% coverage and a black poly outer jacket (nom. .295" O.D.) Specifications given are capacitance 16.0 MMF/FT., velocity of prop.: 81.0% impedance: 75 ohm (nom.), and attenuation: 220 MHz 2.6dB/100 ft.

IVC COLOR CAMERA



International Video Corporation, 695 Almanor Avenue, Sunnyvale, Calif. 94086, has announced that the IVC-300 three Plumbicon color television camera has been selected for an industrial design award by Wescon and was displayed at the 1969 Wescon Show. The firm announced that the camera, designed by Carl Clemets & Associates, was one of twenty-one outstanding product designs selected by a jury of five senior members of the Industrial Designers Society of America.

SONY PORTABLE VTR



Sony Corp., 47-47 Van Dam St., Long Island City, N.Y., has announced production of the CV-2600 half-inch video tape recorder. The unit is said to combine portability, operating ease, and economy, and weighs 31 pounds. A single lever is said to control all tape movement—record and playback, rewind and fast forward. Automatic gain control is designed to do away with all manual recording adjustments, and a servo system provides picture stabilization. Tapes recorded on the unit can be played on other video tape recorders in the firm's series. The manufacturer's suggested list price is \$675.

System Construction

ALABAMA: The Tuscaloosa system in cooperation with the board of education is constructing a closed-circuit operation for the city school system. Tuscaloosa Community Cable has assigned a channel to carry programming from the school's studio which will handle both live telecasting and video-taping.

ARKANSAS: Continental Transmission Corp. plans a \$75,000 rebuild of the Russellville system. New transistorized amplifiers, aluminum-sheathed trunk cables and distribution cable will be installed.

With completion of work on a 10-mile trunk line tying Tuckerman and Newport together, Tuckerman will soon receive service from Davco Electronics Corp.'s system.

CALIFORNIA: Foothill Cable TV Co. has begun providing service to 303 subscribers in North Arcadia.

The Pleasanton City Council has approved a rate hike of one dollar for subscribers of Tele-Vue Systems, Inc. The system has agreed to eliminate the previous \$25 installation charge.

New owners of the Polway system, Time-Life Broadcast, have begun replacing cable and amplifiers. Over 3,000 feet of trunk cable have been replaced. Rancho Bernardo has been receiving the same Time-Life revamping with installation of cable. The

new owner of the system has already completed some of the rebuild.

COLORADO: More than \$90,000 worth of equipment is being added to the Evergreen system. Silver King Cable Co. of Denver plans local programming facilities and a 24-hour weather service.

FLORIDA: Service of Citrus County Cablevision, Inc., in Beverly Hills is being extended to Inverness and Crystal River.

A 10-day free trial is being offered by Cable TV to citizens of Branford where cable system construction is in progress and hook-ups are being made.

GEORGIA: Cablevision Corp., serving parts of metropolitan Atlanta has announced plans to expand its operation to serve an additional 6,500 residences by early fall.

ILLINOIS: New solid-state, transistor amplifiers are presently being installed along trunk lines of Continental Transmission Corporation's Rochelle system.

PENNSYLVANIA: Workmen of Electronic Associates have completed work on the tower and are laying cable. Work on the Oil City system is expected to be completed soon.

The Phillipsburg system, operated by Moshannon Valley TV Cable Co., plans a rebuild to improve service to the system's 2,000 subscribers.

All new solid-state amplifiers and shielded cables are being used in the Valley View system, operated by Lykens TV Cable Co. According to company spokesmen, 90% of wiring is completed.

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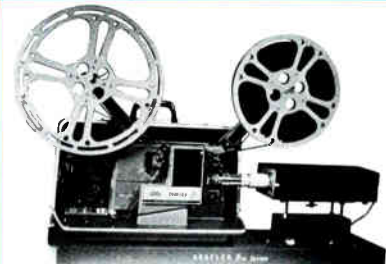
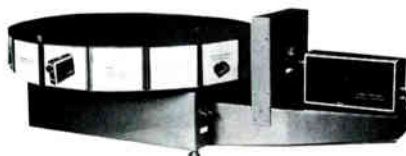


CONCORD VTR-600

Capture up to 40 minutes of video programming re-play later on the versatile, Concord VTR-600. This portable, easy to operate unit will give you unlimited usage in delayed programming of local events and public service features.

Economy and variety in one model of local origination equipment . . . that best describes the all-new Tyler Service Scanner. With this 16-position revolving drum public service and promotion programming is easy to accomplish. Subscribers enjoy it, too. May be easily phased into Weather-Scan or Weather-Scan II operation.

SERVICE SCANNER



GRAFLEX FILM CHAIN

The Graflex 16mm projector with the AFCO transistorized video TV camera is the practical approach to film origination for CATV systems. Feature films build subscribers. Maintain a varied, high interest format with this high performance product!

Johnson Cites Lack Of FCC Public Involvement

“Public participation in FCC decision-making is virtually nonexistent,” FCC Commissioner Nicholas Johnson said in a dissenting comment filed with the Senate Judiciary Committee’s Subcommittee on Administrative Practices and Procedures.

Chairman Rosel Hyde had told the subcommittee, chaired by Sen. Edward M. Kennedy (D-Mass.), that the public is “encouraged” to make its views felt in FCC proceedings.

Kennedy’s subcommittee solicited the views of all federal agencies in questionnaires sent out several months ago. The questionnaires were designed



Mr. Johnson

to probe the extent of agency openness and responsiveness to the public. CATV operators who are convinced that if the Commission only listened to their subscribers it would never adopt such harsh CATV rules, may tend to agree with Commissioner Johnson.

Participation Urged

He said that the “unhappy result” of the lack of public involvement in FCC matters, “is that the FCC is a ‘captive’ of the very industry it is purportedly attempting to regulate.” Johnson said that Hyde “states four times in four consecutive sentences that the agency ‘encourages’ the participation by citizens in its proceedings. I regret to say that my own view is that almost precisely the opposite is the case.”

Johnson has been bitterly criticized

in some quarters of the broadcast industry and on Capitol Hill for encouraging citizens to challenge license renewals.

Canadian Telco Raises Rates: Reactions Mixed

An increase in line rates up to 30% and installation charges up to 20% in Ontario and Quebec, Canada, has prompted mixed emotions from Canadian system operators. Bell Canada, which operates only in those two provinces, initiated the raise without negotiations with cable systems by any means. The telco hiked the rates suddenly after eight years of calm.

It is not likely that the charges will be passed on to subscribers in the Bell areas since systems must petition the Canadian Radio and Television Commission for service rate hike permission. (Rates are also one of the factors affecting negotiations every two years for renewal of licenses—a policy of the CRTC to establish a new “Canadian” television climate) More license hearings are scheduled for October 14, and the docket is “unbelievably large” according to one observer.)

Some of the operators object to the increase in telco charges and some lobbying is being done. Others have been noted as “not objecting.”

Compared to telephone companies in other provinces, which are all entirely owned and operated by the province itself, the Bell rates are generally lower.

Color TV Viewers Get Warning From Agencies

The Federal Trade Commission and the Public Health Service of the Department of Health, Education and Welfare have warned the public once again about the dangers of radiation throw-off from color television sets.

The government agencies recommended, pending further study of the effects of being exposed to such radiation, that viewers sit six to ten feet from sets and avoid their sides and backs while in operation. The agencies also stressed that competent personnel should always be employed to work on color TV sets.

FCC Releases Figures For Radio, Television

According to FCC figures released last week, as of Aug. 31 there were 177 commercial UHF television stations in operation and 506 commercial VHF stations on the air.

The total for educational VHF outlets was 77 and for educational UHF outlets, 103. There were 4,259 AM radio stations in operation and 2,038 FM stations, plus 382 educational FM outlets.

Quarterly Dividend Cut By General Cable

General Cable Corp., New York City supplier to the CATV industry, has cut its first quarterly dividend to \$.20 from the \$.30 rate which was in effect since Oct. 1967. The new dividend is payable Oct. 1 to stockholders of record Sept. 19.

“Escalating prices paid for metals, particularly copper, have necessitated a major increase in funds to support inventories,” said A. L. Fergenson, board chairman of the cable manufacturing firm. He said the action was taken to conserve capital for reinvestment and he also stated that the company had a high level of capital expenses. The decision, he said, was in the best interest of the firm’s stockholders.

The price of copper this year has been increased four times to a peak of \$.52 per pound.

Fergenson emphasized the company’s improving earnings and the forecasts for continued growth. He said that to finance the inventory of the firm’s copper, which now exceeds the book value by about \$20 million, “it has been necessary to borrow heavily during these times of record interest rates, with resultant impact upon earnings.”

Gravco Head Dies

S.S. “Sy” Krinsky, 50, president of Gravco Sales, Inc., died in Los Angeles, California, on August 18 from injuries received as a result of a traffic accident.

Prior to joining Gravco Sales, Inc., supplier to the CATV and broadcast industries, Krinsky was president of S.S. Krinsky and Associates.

(Continued from Page 7)

safety standards and in violation of the terms and provisions of its pole attachment agreements with General Telephone Co. of Florida and Florida Power and Light Co.

Manatee Cablevision asked for a freeze on activities pending the outcome of the case, so as to protect the public from withdrawal of cable services. G'Tec argued in reply that its only construction recently has been the installation of drops from existing distribution facilities, and that it has no intention of additional construction as of now. As for the safety violations, the General Systems said that all but two of the violations were on the power company poles and the other two occurred without the knowledge or concurrence of General Telephone.

The commission said that its freeze on the General Systems in Manatee county would have no adverse effects on the telco if earlier FCC orders were being obeyed.

Pay-TV In House Line Before Cable Hearings

The House is going to get around to consideration of pay television before CATV.

House Commerce Committee Chairman Harley O. Staggers (D-W.Va.) last week announced that his committee will begin hearings on subscription television Sept. 23. The Staggers announcement followed FCC announcement of technical standards for subscription service.

Indications out of the committee last week were that the National Association of Theatre Owners, a rabidly anti-pay TV group, is convinced that it has the

Our Apologies

On page 39 of the Souvenir Photo Edition of CATV (August 25, 1969), top photo, the gentleman at the left was incorrectly identified as an American Pamcor representative. Actually he is Tom Goodall, Cascade's Western Regional Manager who, in the best spirit of Convention brotherhood, was sporting another firm's lapel sticker.

lobbying clout to get the committee to pass a bill forbidding the Commission's authorization of the subscription service. Sources on Capitol Hill indicate that NATO forces will be able to muster impressive strength on the House side, but will likely falter if the legislation ever gets as far as the Senate.

The Commerce Committee is the parent body of the House Communications Subcommittee, whose chairman is Rep. Torbert Macdonald (D-Mass.). Macdonald wants to hold CATV hearings again (see separate story), but must wait for clearance from Staggers and the full committee.

AT&T Rate Hikes Fill Commission's Agenda

The FCC has taken another step toward authorizing the initial regular over-the-air subscription television operations in the U.S.

The Commission last December—the same day it issued its new CATV proposals—announced its plans for authorizing subscription operations. It then said it would accept no applications until technical standards had been set up and procedures established. Now those technical standards and procedures have been set up, and the Commission is ready to accept applications.

The Commission will allow any kind of reasonable "scrambling" devices for TV stations.

Post Time For Pay-TV: FCC Takes Applications

The FCC spent most of its time last week locked in controversial and often heated sessions with American Telephone and Telegraph Corp. Representatives hassled over proposed AT&T rate hikes. AT&T now is limited to 7-7.5 percent profits, and it wants the Commission to lift this limit to 8.5-9 percent.

The Commission is concerned that AT&T would contribute to the general national inflation, and also reacted to widespread public complaints about telco service, leading to a number of heated exchanges at the closed sessions.

These rate squabbles come at a time

when the telephone companies are finding it increasingly troublesome to dominate the CATV industry (see General System Stories). And some observers think that the new toughness of the FCC foreshadows a lessening of the old hold exercised by AT&T over regulatory matters.

AT&T also wants to raise its land-line charges to the television networks, from about 41.2 million this year, to 62.7 million by 1971. Though the TV networks will fight these increases, they are also an added incentive for a national communications satellite system method of distributing television network signals—a project that Comsat and NCTA want cable to share in, by a six-channel distribution of specialized CATV programming.

Canadian Team's Case Back To Locker-Room

A promise of a "peace offering" of \$22,000 didn't help the situation between Ottawa cable systems and the Ottawa Rough Riders. The good will donation to the Canadian League football team was slapped down with demands for a \$75,000 ticket purchase to erase supposed loss of gate revenue caused by the system's carriage of the team's game. (The broadcasts were blacked out in the Ottawa area.)

As reported (CATV Sept. 1), the Rough Riders threatened a court suit (which is incidentally now considered unlikely) because the games were blacked out of the Canadian Television independent network's broadcasts, but cabled to Ottawa football fans by the Ottawa systems Ottawa Cablevision Ltd. and Skyline Cablevision Ltd.

Since the pressing of a suit has come to a halt, most likely the whole problem will be forgotten until next year. The team says that next season the games will not be broadcast from that stadium, their reasoning being that fans will again beat a path to the gates begging for entrance—more money for the team. In the future a trace of the hassle would only appear if a copyright proposal should arise. And there's little chance that a big copyright decision could then be based on what little happened in the Ottawa situation.

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Digest of Earnings

COLUMBIA CABLE SYSTEMS

Quarter June 30: 1969		1968
Share earns	\$.07	\$.02
Net income	61,000	16,200
9 month shares	.22	.08
Net income	183,200	59,500
Avg. shares	825,762	761,360

LAMB COMMUNICATIONS INC.

Quarter Aug. 31: 1969		1968
Share earns	\$.01
Revenues	563,000	\$430,000
Income	28,700	8,600
Special credit	20,500	136,400
Net income	49,200	127,800

COLLINS RADIO CO.

Year Aug. 1:	1969	1968
Share earns	\$3.01	\$4.44
Sales	400,233,000	447,026,000
Net income	8,932,000	13,014,000

Assuming full dilution, earnings were equal to \$2.81 a share in 1969 and \$3.99 a share in 1968.

Industry Stocks

Stock	Stock Exchange	This Week	Last Week	Year High	Year Low	Shares Outstanding
Amer. TV & Comm.		14	14 1/2	14 7/8	7 1/2	1,392,773
Ameco	AM	8 3/4	9	19 1/2	7 1/2	1,200,000
AM Elec. Labs	OTC	7 5/8	7	29	7 1/2	1,516,432
Avnet		13 3/8	14 1/8	20 1/2	13	9,909,054
Cable Info Systems	OTC	3 1/2	32	5 3/4	3 1/2	955,000
Cablecom General	AM	10 5/8	11 3/4	12 3/4	9 1/2	-
Citizens Fin. Corp.	AM	17 1/8	-	28 3/4	16	994,689
Columbia Cable	OTC	10 1/4	10 1/2	14 1/2	9	876,000
Cornelia Corp.	OTC	1 1/4	1	8 3/8	1 1/4	-
Cox Cable Comm.	OTC	13 3/4	14	23 7/8	13 1/2	2,550,000
Cypress Comm.	OTC	11	11	20 1/2	10 1/2	839,000
Entron	OTC	3 1/4	3 1/4	11 1/4	3 5/8	600,700
Famous Players Ltd.	C	13	13 3/4	19 1/4	13 1/4	-
General Inst.	NY	36 1/2	36 3/8	57	18 7/8	-
Gulf & Western	NY	22 1/2	22 5/8	60	20 5/8	15,120,860
H&B Am	AM	15	14 5/8	27 3/8	10	4,972,589
Kaufman & Broad Inc.		39 7/8	41 5/8	42 3/4	33 1/2	3,900,909
Lamb Comm., Inc.	OTC	4 1/4	4 1/2	10	4 1/8	2,468,284
Livingston Oil	NY	9	8 5/8	15	8	5,692,078
Maclean-Hunter	C	-	-	18 1/4	11 1/2	2,000,000
Reeves	AM	14 3/4	14 1/8	39 5/8	15 5/8	-
Scientific-Atlanta		7 5/8	8 1/4	19	8 5/8	903,442
SKL	OTC	4	-	11 1/2	3 1/2	-
Sterling Comm.	OTC	6 1/2	7	13 5/8	5 3/4	-
TeleMation Inc.	OTC	23	-	25 1/4	14 1/2	1,860,735
TelePrompTer	AM	56	54 1/2	78 1/2	32 1/2	-
TeleVision Comm.	OTC	11 1/4	-	21	11 3/4	2,645,046
Vikoa	AM	23 1/2	22	39 1/4	12 5/8	1,719,345

These are Wednesday closing prices supplied by Dempsey-Tegeler. AM = American Exchange; NY = New York Exchange; OTC = Over the Counter; C = Canadian Exchange.

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profile of a leader



A. C. R. STONE

Born in Newkirk, Oklahoma, February 12, 1925. Attended School at Utah State, University of Wyoming and Minnesota University. He served with the U.S. Air Force during World War II, was shot down over Germany. Before entering the CATV picture, was production head for Storer Broadcasting; later became General Manager of Storer's CATV Division. This fall he joined Hogan-Feldman as CATV consultant. Immediate past president of California Community Antenna Television Association. Married, he is the father of one daughter.

Newkirk, Oklahoma. . . Clinton, Missouri. . . Buffalo, Wyoming—the communities in which A.C.R. Stone was born and reared, all boast cable television systems today, although the term had not even been heard of when A.C.R. Stone was a boy. Which perhaps bears out his own “if-only” daydream—“If we had only had 1969 technology in 1949,” he says ruefully, “*All* the cities would be wired.” Not only Newkirk and Clinton and Buffalo, but Chicago and Detroit and Boston, But without wasting time on “if-onlys” this man has been steadily working to bring CATV into every possible market.

Stone's depth of experience in broadcasting has made him intensely aware of the potential of CATV. . . and his success in his broadcasting career gave him the same kind of ambition to succeed in cable. As production head for Storer Broadcasting in the early 1960s, he produced the immensely successful “Beanie and Cecil” cartoon show which introduced many of the younger generation to the delights of television.

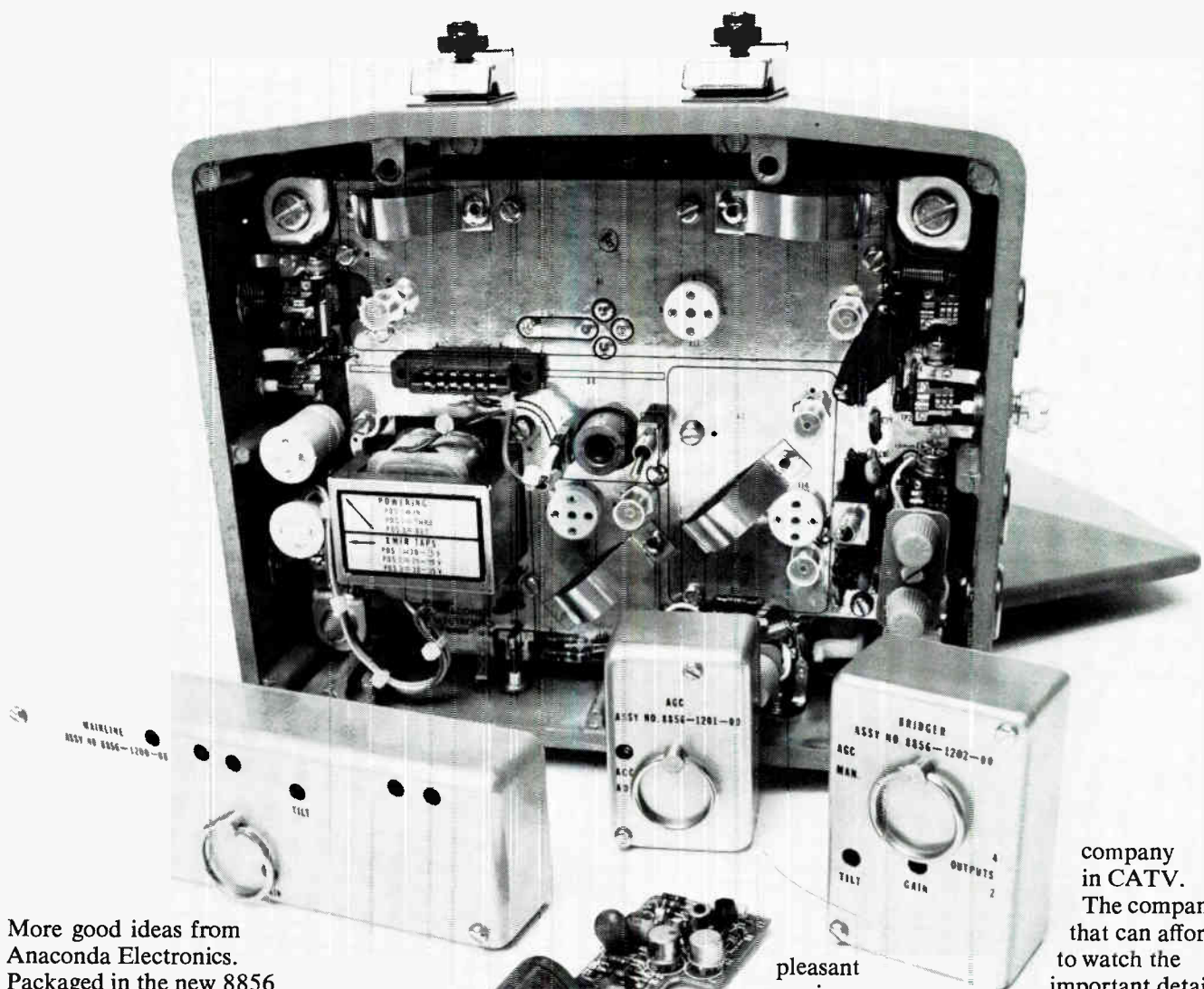
In March of 1965, Stone was named chief of Storer's CATV Division, at that time a comparatively small operation with just two California systems, one at Thousand Oaks and one at Ojai. As General Manager, charged with developing the division, Stone brought the operation up to many times its original size. When he resigned his position in August, this year, the MSO boasted well over 20,000 subscribers throughout California.

While he remains enthusiastic about the challenges involved in direct system operation, A.C.R. Stone made a decision this summer to put his expertise to work in the ranks of the consultants. Choosing to remain in California and in cable television, he joined the staff of brokers-consultants Hogan-Feldman.

His influence in California cable television is felt strongly as well through his leadership role in the state's CATV association. He has been vice-president of that group as well as serving a term in the president's chair 1968-69, and he is at present a director. Convinced as he is of the unlimited future of cable, he believes that operators must present a forceful front on all sides—including and perhaps especially through trade associations.

Whether the subject is the FCC, state regulation, telco leaseback, the need for better line equipment, or the financial risks of cablecasting A.C.R. Stone speaks out frankly and authoritatively. . . welcoming the challenge of cable and dedicated to it.

small wonder



More good ideas from Anaconda Electronics. Packaged in the new 8856 AGC Trunkline Bridging Amplifier. Enough good ideas to make it something of a small wonder.

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AGC, each completely self-contained in a shielded plug-in module. So, key components snap in, snap out. Tough, reliable design. Reduces maintenance downtime to just about zero. Saves man-hours. Saves money. Keeps the subscribers just a little bit happier. There are lots of other

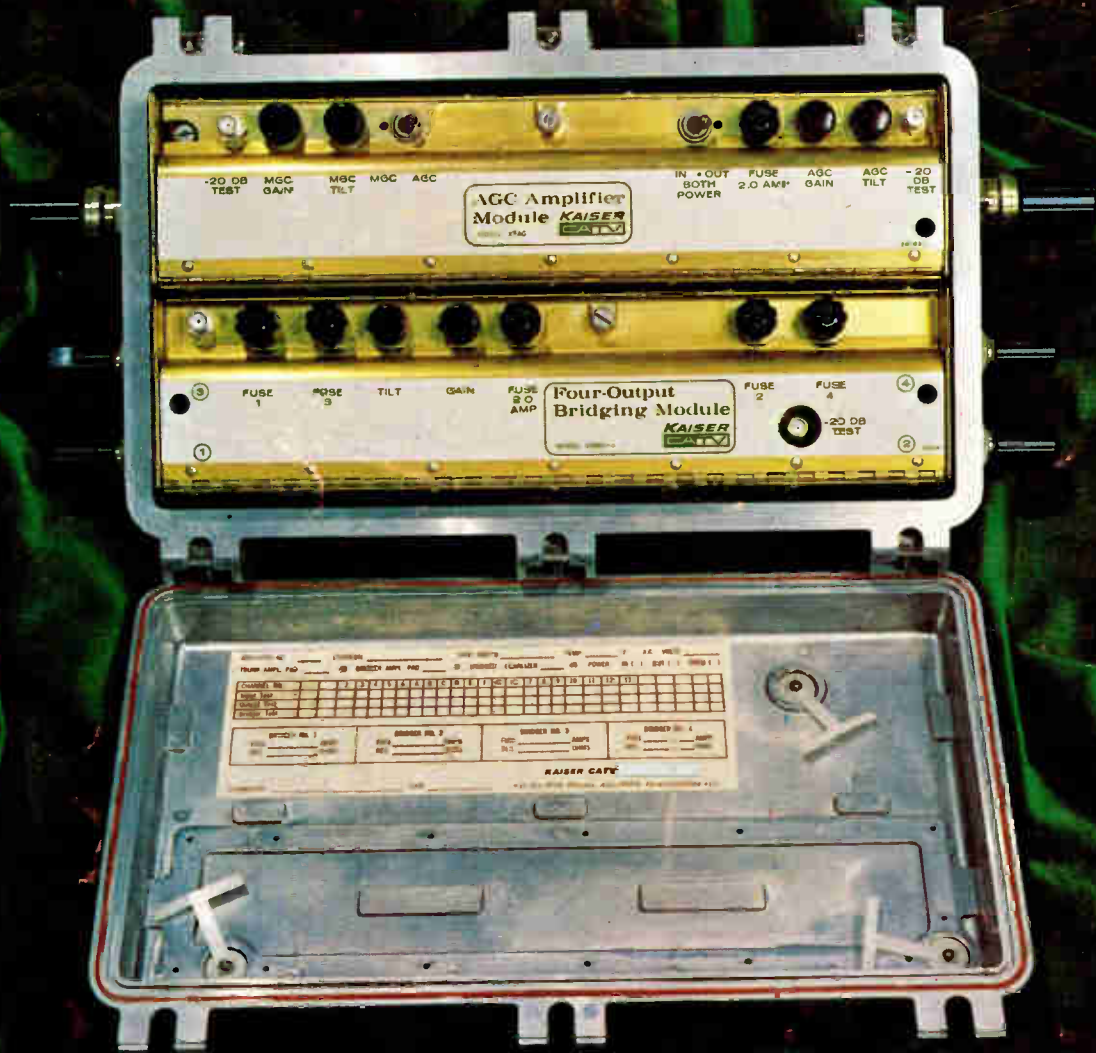
pleasant surprises in the package. Like the way it stands up to moisture and lightning. (All parts are lightning/surge protected. And every amplifier is pre-tested against water penetration before it leaves the plant.)

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company in CATV. The company that can afford to watch the important details.

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