



**TORONTO-ROCHESTER, Nov. 12-13**—The two-day joint meeting of the Rochester and Toronto Sections known as the Little Convention is a tradition of some dozen years standing. The first Little Con-

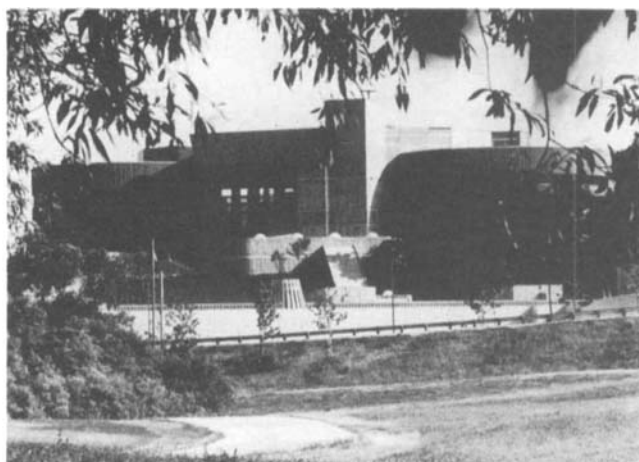
vention was held at Kingston, Ont. Members of the Canadian Section (now the Toronto and Montreal Sections) invited members of the Rochester Section to the joint meeting and since then the Little Conven-

tion has been held each year in the fall with the meeting place alternating between Toronto and Rochester.

The 1971 Little Convention began with a speakers' reception at the Westbury Hotel in Toronto attended by a number of members of the two Sections and their wives. The Papers Session was held Nov. 13 at Cinesphere, the spectacular Ontario Place film theater. (See "Ontario Place: Audiovisual Arrangements and Techniques" by Mirdza Turkis, on earlier pages of this issue of the *Journal*.) Cinesphere was a memorable setting for the presentation of papers on recent developments in film and television. More than 200 mem-



**Aerial view of the Cinesphere in Ontario Place.**



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bers and guests attended the all-day session.

**Papers Program**

*Wally Bebenak*, Ampex Corp., provided a presentation of the Ampex video cassette system.

*K. Tsunode*, Sony Corp., provided a presentation of the Sony video cassette system.

*Leslie Holmes*, Canadian Broadcasting Corp., presented a paper on "Tone Reproduction as the Key to Film Quality."

*Fred Sachs*, General Electric Co., presented a paper on "New Imaging Tube Developments," which described developments in silicon diode pickup tubes.

*Findlay J. Quinn*, Quinn Laboratories, Ltd., described the work of the laboratories in pollution control and water recycling through reverse osmosis.

*James Sucey*, Eastman Kodak Co., described the development of materials for a training program and the examination of the effectiveness of such programs.

*Raymond A. Eynard*, Agfa-Gevaert, presented a paper on "Visual and Densitometric Standards and Tolerances for Color Balance With Reference to Gevaert Film Types 985 and 600."

*W. J. Pither*, Fred Welsh Antenna Systems Ltd., explored the possibilities of two-way CATV systems and described equipment that had been developed to accomplish such a system.

*Carl Meurin*, of the Technical Service of Ontario Place, and *William Shaw*, Multi-screen Corp., Galt, Ont., described the background and development of the Imax

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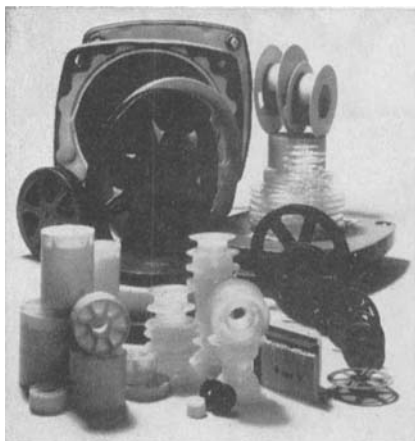
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projection system. The system is used to fill the 60- by 85-ft screen that literally engulfs Cinesphere audiences in huge images that reach an almost unbelievable level of verisimilitude. The Imax system was developed by Multiscreen Corp.

The program concluded with the screening of *North of Superior*, projected by Imax. The film included the scene of a forest fire raging out of control. This scene was unusually impressive because a viewer did more than merely watch — he became a part of the scene, standing beside the men who were fighting the fire.

The delegates gathered in the Level 50 Restaurant in Ontario Place for the mid-day break for lunch. The Ladies Program also had special attractions, including a tour and a luncheon at the Ontario Centre of Science and Technology.

Saturday evening brought more opportunities for socializing at the Westbury Hotel. Cocktails and an excellent dinner were followed by entertainment and dancing. Some 200 persons filled the ballroom with the sounds of friendship.

The Little Convention was extremely successful. Its success can be measured in many ways, not the least of which is the opportunity to strengthen the bonds of friendship and common interest between the members of the Toronto and Rochester Sections.

The Co-Chairmen of the Little Convention Committee extend their thanks to the Province of Ontario and particularly to the Public Relations Staff for providing the opportunity to hold the meeting in such inspiring surroundings.—Robert B. MacKenzie, MacKenzie Equipment Ltd., 26 Duncan St., Toronto 2B, Ont., Canada; and Lou T. Wise, Teaching Aids Dept., Toronto Board of Education, 155 College St., Toronto 130, Canada (Co-Chairmen, Little Convention Committee).

WASHINGTON, D.C., Nov. 15—The meeting was held at the National Academy of Sciences as a joint meeting with the Society of Photographic Scientists and Engineers. The speaker was Richard R. Conger, of Metacommet Inc., who presented a paper "The Mechanics of Processing — Step One to Quality Control." He gave a brief history of prepared photographic chemicals related to his description of the super-concentrated prepackaged chemicals used today. On the premise that the basis for proper quality control starts in the mixing tanks, the various problems that can occur between the cubitainer and the step wedge were thoroughly discussed. Some of the less familiar aspects of present-day developer/replenisher systems were described.—Arthur L. Foster, Secretary-Treasurer (U.S. Dept. of Agriculture), 7115 24th Ave., Hyattsville, MD 20783.

ATLANTA, Nov. 23—The meeting was held at the Georgia State Educational Television Network Center, a new ultra-modern facility that houses a complete production and transmitting operation. Unfortunately, because of an early ice storm, only 12 members were able to attend. Bob Ware, the Center's Director of Engineering, explained the operation and conducted a tour of the facility. A sample program that had been produced at the Center was shown on closed-circuit TV.

The Center employs a huge staff of researchers, writers, artists and TV and film technicians who produce most of the programming for the state's nine educational stations. The stations form a network that covers the entire state. During school hours they broadcast into classrooms and then broadcast public educational programs in the evening. While programs are being produced at the Center separate facilities feed programming to the stations for future use. Another operation at the Center is that of taking programming from the Public Broadcasting System and other locally affiliated educational stations that produce programming. Mr. Ware told of a new development that will enable feeding a half-hour program to the nine stations in six seconds. As an example of what this could accomplish, Mr. Ware said it would be conceivable to transmit almost their entire library in one day. Requests for tapes from the Center's library come from individual teachers via a telephone code number. School systems are being equipped with their own small tape units for individual and classroom use. The Center also prepares printed support materials for teachers and classroom use with the programs.

This is the most modern and largest educational TV network in the world and future plans could bring even more fantastic developments.—Gerald M. Crowder, Secretary-Treasurer, Provence Productions, Inc., 477 Armour Circle, N.E., Atlanta, GA 30324.

CHICAGO, Dec. 6—This was a joint meeting with the Chicago Chapter of the Society of Photographic Scientists and Engineers. The meeting was held in the Leaning Tower YMCA in Chicago with an attendance of 63 members and guests. There were two speakers, William G. Hyzer, an internationally recognized expert on instrumentation photography, and Howard Johnson, of Red Lake Laboratories. Mr. Hyzer gave an excellent talk on the basic optical systems used in high-speed photography. The visual aids he used to illustrate his talk added to the interest and also made it easier to understand the complex subject he discussed. Following Mr. Hyzer's presentation, Mr. Johnson described some of the instrumentation cameras produced at Red Lake Laboratories. He brought a typical camera for examination by the audience.

There was a brief intermission during which coffee was served. Following the intermission, two films, illustrating some of the applications of high-speed photography, were shown.—Mathias J. Herman, Secretary-Treasurer (Geo. W. Colburn Labs), 9104 Birch Ave., Morton Grove, IL 60053.

DETROIT, Dec. 6—The meeting was held at the Chrysler Center of the University of Michigan as part of the Videotape Seminar sponsored by NET. About 80 members and guests attended, including a number of members from other Sections. The speaker was Charles Anderson of Ampex Corp. who presented a paper on the developments of contact duplication of videotape. The presentation included a descrip-

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While we're not particularly surprised, we *are* grateful. Grateful you appreciate our MKH 805's unusually wide, flat response, extreme directionality and high overload resistance. Grateful you appreciate its ruggedness, compactness and light weight. And most of all, we're grateful you use it so widely, both in studio and field-recording, that it's become the most talked-about microphone success story in decades.

But the MKH 805 shotgun microphone was a hard act to follow, especially since we don't bring out new products for change's sake. Now, however, we are pleased to bring you our new MKH 415 and 815—the "littleshot" and the "bigshot"—two remarkable microphones representing a third generation of Sennheiser condenser microphone design.

## the littleshot

Not too long ago, we discovered our shotgun microphone being used for applications beyond our original intentions. Because of its small diameter and longer-than-normal size, reporters used it for interviews at normal miking distances. And because of its flat response and high directionality, studios often used it to pick up performers and to actually "close-mike" instruments from a distance, due to its lack of proximity effect, and "pop" reduction.

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First, pops and wind-noise are reduced, even without its accessory windscreen and shockmount. But even more important in many applications, is the MKH 415's virtually total freedom from proximity effect, which, coupled with its unusually flat response, makes possible "close-miking" of singers and instruments without need for bass attenuators. Beyond these features, the extremely wide response, low ambient noise, high output and overload resistance characteristic of all Sennheiser microphones have also been retained.

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In the MKH 815, all the good things that made its predecessor's reputation in filmmaking and broadcasting have been retained. And another advantage has been added: through an improvement in the microphone's interference design, by increasing the number of slots along the microphone's sides (to reduce the area of individual ports), the MKH 815 has additional resistance to pops and wind noise. Thus, in many situations formerly requiring additional precautions, the MKH 815's accessory windscreen and shockmount will not be required.

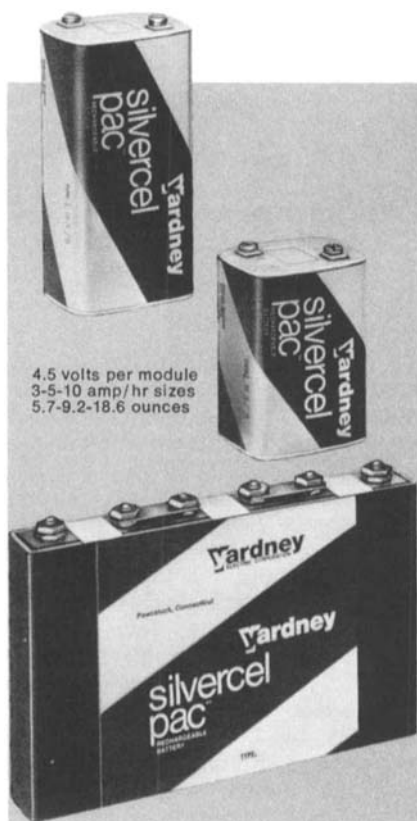
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tion of the technical aspects of the Ampex ADR 150 duplicator and a comparison of the duplication of quadruplex and of helical-scan tapes and the respective difficulties. A lively question-and-answer period followed the presentation and a tour of the NET facilities and a demonstration of the Ampex duplicator were provided.—R. L. Renaud, *Secretary-Treasurer*, Browne Renaud Associates, Inc., 2820 Maple Rd., Troy, MI 48084

MONTREAL, Dec. 7—The meeting was held at Canadian Broadcasting Corp.'s International Broadcasting Center in Montreal with an attendance of 40 members and guests. Speakers were C. Heft and Patrick Jackson, both of CBC. Mr. Heft presented a paper entitled "Loudspeakers" in which he described the evaluation procedures for loudspeakers used by CBC for the new Broadcasting Center. The analysis was made for monitoring studio speakers. A coffee break followed the talk, through the courtesy of CBC. After the coffee break, Patrick Jackson presented an illustrated talk on CBC's new sound mixing studio, followed by a tour of the facilities.—A. Dunstan Russell, *Secretary-Treasurer*, Alex L. Clark Ltd., 1070 Bleury St., Suite 805, Montreal, P.Q., Canada.

AUSTRALIA, Dec. 10—The meeting was called at short notice to enable members to benefit from the visit of Nobuhisa Kotoh, of Mitsubishi Electric Corp. in Japan. Mr. Kotoh demonstrated the EVR player to 39 members and guests assembled in the Science House in Sydney. Before the demonstration Doug McKean, of Permafilm Pty. Ltd., discussed the EVR player as an introduction to the demonstration. Members and guests had the opportunity of inspecting the equipment and asking questions about its performance. Following the demonstration those present continued their discussions with the aid of a cup of tea and biscuits. This was a most successful meeting, although parking facilities were more crowded than usual because of a bus strike.

Since it has been found to be feasible to organize a meeting on short notice, it is hoped that many more overseas visitors of note may address the Section on topics of interest. Prospective visitors to Australia who would like to address the Section, are invited to write to the Secretary before their arrival so that arrangements can be made.—Eddy Berlage, *Secretary-Treasurer*, Australian Section, Box 3397, GPO, Sydney, N.S.W. 2001, Australia.

ROCHESTER, Dec. 13—The meeting was held at the Memorial Art Gallery with an attendance of 103 members and guests in spite of the inclement weather. Speakers were Eric Yavitz and Joe Boon, both of Eastman Kodak, who spoke on different aspects of the same subject—"Super-8 Film: A Universal Input to Video Cassettes and Television Systems." Mr. Yavitz reviewed the benefits of super 8 as a universal input to video cassettes and television systems, super 8 being acceptable for both video and optical projection. Mr. Boon demonstrated the excellent quality obtained using super-8 film as an input to a Kodak Video Player with the signal being displayed on a conventional television receiver.—John R. Hester (Eastman

Kodak Co.), 274 Churchill Dr., Rochester, NY 14617.

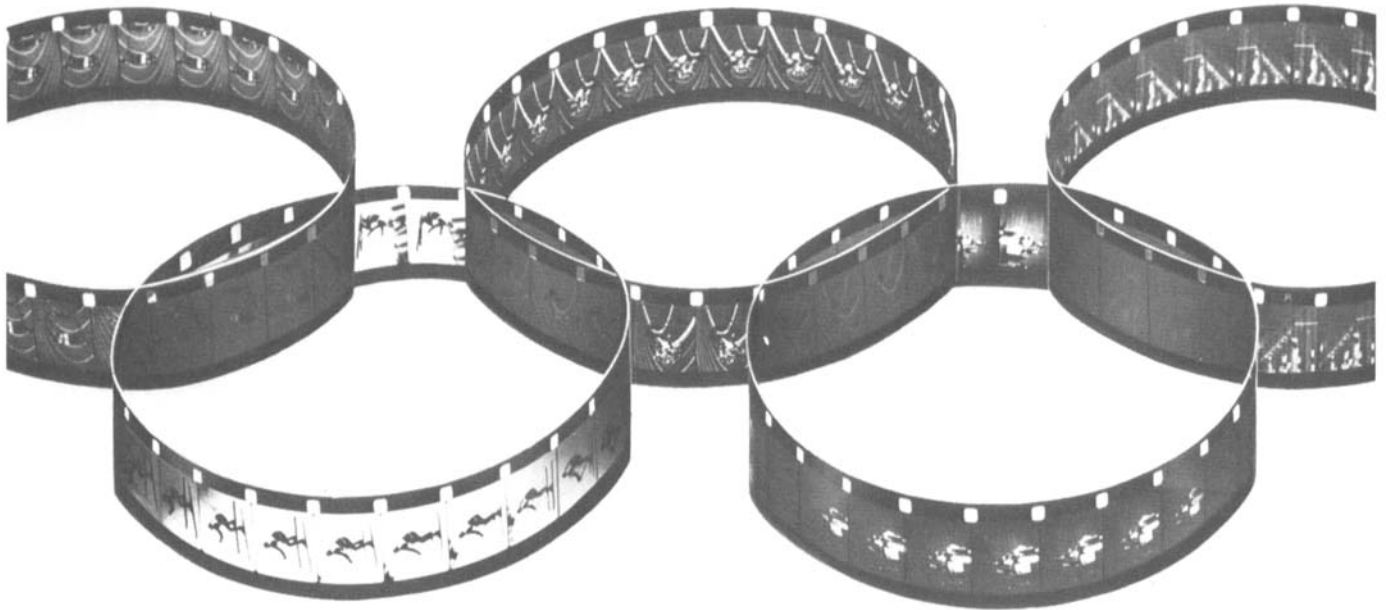
PACIFIC NORTHWEST, Jan. 14—The first meeting of the Pacific Northwest Section was held in Kane Hall at the University of Washington in Seattle, Wash. Fifty-seven members attended. SMPTE President Wilton R. Holm was present and presented a paper on "The Impact of Modern Technologies on the Future of the Laboratory." William E. Good of General Electric Co. presented a paper on "Large-Screen Video Projection With the GE Light Valve." He described the operation of the new GE color TV video projector and explained how three color images are formed by a single electron gun.

Some idea of the geographical spread of this new section can be gained from weather reports of members who drove to the meeting. From Portland there were reports of "dry and sunshine" and reports from Vancouver were of "below freezing and snow." Before the meeting 26 members gathered for cocktails and dinner with President Holm at the University Towers Hotel in Seattle.—W. A. Kittle, *Secretary-Treasurer* (Canadian Kodak Sales Ltd.), 2379 Panorama Dr., Deep Cove, North Vancouver, B.C., Canada.

HOLLYWOOD, Jan. 18—The meeting was held at Paramount Studios Theatre with an attendance of 220. Sixty-three members and guests attended a pre-meeting dinner at Nickodell's. There were two speakers, Sidney P. Solow, President and General Manager of Consolidated Film Industries, and Julian Hopkinson, West Coast Technical Representative of Agfa-Gevaert. Mr. Solow presented an informative paper entitled "A Fully Automated Blow-Up Printer." The printer enables production of timed 35mm color internegative from 16mm color reversal originals. A special feature of the printer is its high light output which is obtained by a lens-cluster system enabling it to be used with production-oriented printer speeds while utilizing the full color correcting printer scale with products having slow speeds. Mr. Solow presented some impressive examples of blow-up work using this system. The printer has an efficient liquid-gate system in conjunction with an additive head and punched-tape control to enable the laboratory to generate 35mm blow-ups in a minimum turnaround time.

Mr. Hopkinson presented a paper entitled "Type 903—An Improved Gevachrome Print Film." He described a new reversal color print film with improved silver soundtrack capability. The new Type 903 was compared with the earlier film in a series of sound demonstrations which displayed the improved sound quality of the new film.—William J. Wade, *Secretary-Treasurer* (Universal City Studios), 12946 Valleyheart Dr., Studio City, CA 91604.

MONTREAL, Jan. 18—The meeting was held in the auditorium of the National Film Board in Montreal with an attendance of 125 members and guests. The meeting opened with a short film produced by the National Film Board. A paper was presented by Robert Wynn, a producer, on "The Production of Motion-Picture Films on Videotape and their Transfer to 35mm



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## Proceedings of the Symposium

OCTOBER 7 AND 8, 1971, MONTREAL

Stanley F. Quinn, *Chairman*

**From the Foreword:** It was the purpose in organizing the Symposium to examine the new technology of videoplayer systems and to consider the likely impact on education, industry and the home. It was hoped to attract not only engineers but also educators and other professionals interested in this new medium of communication. There were four sessions: Perspective Session, in which particular emphasis was placed on the social and economic aspect of the new technology; Utilization Session, in which plans and experience of prospective users were outlined; and two Technical Sessions, which provided a review of the technology of storing audio-video information and new information about videoplayer systems. The matter of the multiplicity of systems standards received particular attention in several of the papers on both days.

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Film." The paper was illustrated by excerpts on 35mm film from two of his recent productions in which a videotape camera was used. An interesting question-and-answer period followed the presentation. Coffee was served after the question-and-answer period. The coffee break was by courtesy of the National Film Board. Following the coffee break, Barry Gordon, a film consultant, presented a 70mm film, *Harmony of Nature and Man*, produced for the State of Washington and shown at the exhibition in Osaka. The film consists of multi-images superimposed on a background which, in itself, is a complete film. Running time of the film is 12 min. After the film was shown, Mr. Gordon explained many of the technical problems and discussed the type of lenses and the camera used. The film was then screened a second time and lively question-and-answer period followed.—A. Dunstan Russell, *Secretary-Treasurer*, Alex L. Clark, Ltd., 1070 Bleury St., Suite 805, Montreal, P.Q., Canada.

NEW YORK, Jan. 18—The meeting was held at the United Engineering Center. Three papers were presented. Alfred Thumin, Vice-President of the Oxberry Div. of Richmark, in New York, showed two 16mm films on the latest Oxberry printer and on the newly developed Oxberry liquid gate. The description of the printer and the gate was of great interest to the audience which included representatives of many optical houses and editorial firms. Clyde Smith, of CBS Laboratories, presented a paper on Chroma for NTSC video signals. The paper was illustrated with slides. S. N. Baron, also of CBS Laboratories, spoke on synthetic television titling and applications. He described the Vidifont method of superimposing titles and graphic arts styles. More than 100 members and guests were in the audience. All three papers were well received and a lively discussion followed.—Herbert R. Pilzer, *Public Relations Chairman*, Motion Picture Enterprises, Inc., Tarrytown, N.Y.

DALLAS/FORT WORTH, Jan. 19—The meeting was held at Stage North in Dallas with an attendance of 40 members and guests. Victor Duncan, President of Victor Duncan, Inc., demonstrated the new Dallas Dolly and the Cinema Products CP-16 camera. Dick Brzozowski, also of Victor Duncan, Inc., demonstrated the Moviola console editor. Following the demonstrations, Chairman Frank Reinking showed an Eastman Kodak film on *Basic Lighting Techniques*. Mr. Duncan then conducted an informal seminar on film lighting. The discussion ranged from a pro and con debate on the versatility of ECO 7252 film stock to a spirited exchange on the problems of location lighting for both feature and nontheatrical motion-picture production.—Gary Jones, *Secretary-Treasurer* (WFAA Productions), 3883 Turtle Creek Blvd., Dallas, TX 75219.

HOUSTON, Jan. 20—The meeting was held at the Manned Spacecraft Center with an attendance of 40 members and guests. The meeting included an extensive tour of the NASA facilities, including Mission control and some of the processing facilities. A dinner for members and guests preceded the meeting.—Robert G. Harper, *Secretary-Treasurer* (A.I.E Studios), 2806 Westerland, Houston, TX 77042.