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### S.O.S. PHOTO-CINE-OPTICS, Inc.

602 West 52nd St., New York 19—PLaza 7-0440  
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Vice-President in 1961. It was with regret that President Levinos of SPSE accepted his resignation from that office in 1962 when his health no longer permitted him to devote to it the time he felt it deserved.

His interests were wide and varied. His sympathy for and understanding of the less fortunate in our society led, among other things, to his involvement in the work of the Baden Street Settlement House in Rochester, N.Y. The intellectual vigor and genuine concern which he brought to the problems of this social agency contributed much to the realism and effectiveness of its programs for the improvement of the quality of life for residents of the "less-chance" areas. He gave unstintingly of his time and energy as a tutor and counselor of the aspiring boys

and girls at the Baden Settlement House and as a member of the Group Work Committee. He will be remembered there and in the community at large for his sincerity, his high integrity, his deep social concern, and the creativity of his contributions to the solution of difficult community problems.

As an international authority on the chemistry and techniques of motion-picture processing and many other subjects related to the handling and storage of film, Charles Ives has left an indelible imprint of inestimable value for his fellow engineers. His clarity of thought on the analysis of problems, his careful application to their solution, and his kindly relations to his fellowmen will long be remembered. — Glenn E. Matthews.

## Canadian Section Plans Coast-to-Coast Meeting

Another first in SMPTE history will be made February 13 in Canada. The officers of the Canadian Section through Maurice French, Publicity Chairman, have announced plans for a closed-circuit television broadcast of a one-hour meeting, to be carried over the facilities of the CTV Network from coast to coast. Members and guests will be able to view the meeting in Montreal, Que.; Toronto, Ont.; Ottawa, Ont.; Moose Jaw, Sask.; Winnipeg, Manit.; Calgary, Alta.; and Vancouver, B.C. Thus, for the first time, it will be possible for every Canadian member

to participate in a general meeting of the Section.

The plan for this nationwide meeting, which will originate in Toronto and possibly also in Montreal, grew from a suggestion made by Murray W. Marshall of S. W. Caldwell Ltd. A committee is now busy preparing the program for the meeting; full details will be mailed to Canadian members in the near future. To mark the importance of this meeting in the history of the Society, our new president, Reid H. Ray, has been invited to be present.

## Education, Industry News

Telstar, which spent a well-behaved four months "up there," now refuses to obey commands to turn its communications receiver and transmitter on and off. Telstar's developer, Bell Telephone Laboratories, is endeavoring to find the cause, mainly to provide information for improving future satellite reliability. The difficulties do not affect telemetry transmission which has continued to operate properly. All experiments originally planned for the satellite have been carried out, and more than 400 demonstrations have been made. These have included multichannel telephony, telegraphy, and data and other facsimile transmissions. Transatlantic television has been demonstrated 47 times and five of the demonstrations have been in color.

Since July 10 when Telstar was launched by NASA it has reported back to Earth on events occurring in its orbit from 600 to 3,500 miles above the Earth. For example, it has encountered a lot of high-energy electrons. This is an undoubted fact, but whether these electrons represent an unusually high concentration of Van Allen belt electrons or result from the high-altitude nuclear bomb test of July 9 is still being debated.

Various organizations, other than Bell Telephone Laboratories, have contributed in some measure to the many tests preceding the satellite launching. For example, the satellite was subjected to solar radiation provided by carbon arcs that closely duplicate the spectrum of the sun's energy outside the Earth's protective atmosphere. Three solar lamps burning high-intensity

arc carbons supplied by National Carbon Company were cycled on and off on a precise schedule to simulate orbital conditions.

Experiments conducted prior to the Telstar tests were described by J. W. Cosby, Arc Carbon Marketing Manager, National Carbon Co., in a talk before the convention of Theatre Owners of America (TOA) held during November in Miami Beach, Fla. In his address, entitled "The Light Merchants," Mr. Cosby described experiments conducted in the laboratories of the National Carbon Co.

He said that it was found that the sun and the carbon arc have identical outputs over the entire range of the spectrum. A Perkin-Elmer recording spectrophotometer was used to measure the spectral energy distribution of radiation from the carbon arc all the way out to 150,000 A. Data were then plotted on a curve showing the spectral energy distribution of the sun outside the Earth's atmosphere from 2,500 to 60,000 A, which includes about 98% of the Sun's energy output, and the two curves were found to follow each other very closely over the entire range.

According to Mr. Cosby, "space equipment designers can now use banks of carbon arcs with no filters or added energy in test chambers to simulate conditions of solar radiation in outer space. The space chambers already in operation use carbon arcs, and large chambers now under consideration will, undoubtedly, also use this high-intensity energy source to simulate solar radiation."