



The Get-Together Luncheon was attended by more than 500 people.

Awards Presentation 1974

The Get-Together Luncheon on Monday of Conference week was again chosen as the scene for the presentation of Awards by the Society. SMPTE President Byron S. Roudabush presented certificates or medals for eleven different awards. In addition, fifteen members of the Society were made SMPTE Fellows and received their certificates from Mr. Roudabush. The Award citations and brief biographies of the award recipients appear below.

Honorary Membership

The highest honor conferred by the Society is election to Honorary Membership. Its purpose is to recognize individuals who have performed a lifetime's work of eminent service in the advancement of engineering in motion pictures, television or in the allied arts and sciences.

The award of Honorary Membership in the Society is made to Dr. J. S. Courtney-Pratt in recognition of his life's work of original research and outstanding contributions directed to furthering the art of photoinstrumentation and high-speed photography.

Dr. Jeffrey Stuart Courtney-Pratt is a graduate of the University of Tasmania and the University of Cambridge, England; he served with the Council for Scientific and Industrial Research in Australia and the British Admiralty during World War II. From 1945 to 1957 he was a research student, Fellow of Gonville and Caius College, ICI Fellow, and the Assistant Director of Research at the Department of Physical Chemistry and Physics at the University of Cambridge. Dr. Courtney-Pratt was concerned with research in applied physics, optics, model beam interferometry, high-speed photography, instrumentation, friction, adhesion, and the physics of contact of solids. In 1958 he joined the Bell Telephone Laboratory and since that time has been engaged in research of methods of high-speed photographic recording, x-ray recording, optics, optical instrumentation, optical lasers and fiber optics, as well as

research in the properties of materials strain measurement, adhesion, friction and the contact properties of solids. Currently he is the Head of Applied Physics and Exploratory Systems Laboratory at Bell, working on the problems of long-range transmissions processes for audio and visual propagation.

Universally acclaimed for his varied scientific capabilities, Dr. Courtney-Pratt is the recipient of 17 patents with 11 pending in the field of instrumentation, optics and photomechanics. He has received numerous awards for his work including the Sir Charles Vernon Boys Prize for Experimental Physics in 1954 and the Civic Medal in Paris the same year. In 1961 he received the E.I. duPont Award from the Society for his basic pioneering research image converter camera and in 1969 the Society's Progress Medal. During his career, Dr. Courtney-Pratt has published more than 50 technical papers and reports in the field of high-speed photography, as well as an almost equal number of papers in other fields. He is a Fellow of the Society, as well as a Fellow of the Royal Photographic Society of Great Britain and a recipient of the Gold Medal of the Photographic Society of Vienna. Dr. Courtney-Pratt's affiliations include the Institute of Physics in England and the Institute of Mechanical Engineering in England, the Cambridge Philosophical Society, the Society of Photographic Instrumentation Engineers and the SMPTE.

Progress Medal

It is the purpose of this award to do honor to the individual by recognizing outstanding technical contributions to the progress of engineering phases of the motion-picture and/or television industries.

The Society's Progress Medal is awarded to Sidney P. Solow for his contributions to motion-picture laboratory technology, including the applications of chemical, of mechanical, and of optical innovations for the improvement of laboratory techniques.

As President of Consolidated Film Industries and Adjunct Professor of Cinema at the University of Southern California, **Sidney P. Solow** has made outstanding contributions to the technology of the motion-picture industry for more than forty years. As a manager and educator, he has provided leadership and continuing creative technical education not only to his associates and company personnel but to his many students from all over the world. He has been honored for his willingness to share his knowledge and experience with young people.



Sidney Solow addresses the SMPTE after receiving the SMPTE Progress Medal.

A graduate of the New York University in 1930, majoring in chemistry and physics, he has the scientific background that became significant when as General Manager of Consolidated Film Industries, he stimulated and encouraged research and development of new techniques and equipment among his colleagues which culminated in the recognition by the Academy of Motion Picture Arts and Sciences of Consolidated Film Industries and its Engineering Department with ten Scientific and Technical Awards at the annual "Oscar" presentations.

Mr. Solow's leadership and technological achievements at Consolidated Film Industries has made that laboratory a focal point to which technicians from laboratories in all parts of the world have turned for technical education and training.

E. I. du Pont Gold Medal Award

It is the purpose of this award to do honor to the recipient by recognizing outstanding contributions in the development of new techniques or equipment which have contributed to the improvement of the engineering phases of instrumentation and/or high-speed photography.

The E. I. du Pont Gold Medal Award for 1974 is given to Roy Edwards for his design of a wide range of prism and intermittent cameras, representing a distinguished contribution to photo-instrumentation technology.

Roy Edwards has been Chief Engineer of Photo-Sonics, Inc. for the past 20 years or so during which period he has designed an array of high-speed motion-picture cameras, both prism and intermittent. While the model most widely used, particularly in automotive crash testing, is the 16mm-1B, which operates up to 1000 frames/s, his contributions to the field also include 35mm prism cameras up to 3000 frames/s and 70mm prism cameras that run up to 720 frames/s. More recently he has designed 16mm and 35mm airborne intermittent cameras used widely by the Navy, and a 16mm intermittent camera that operates up to 1000 frames/s. In all, the discrete models of high-speed cameras designed by Roy Edwards during this period, and actually placed in production, number at least twenty, an accomplishment that is probably not approached by any other designer in the United States or elsewhere.

Eastman Kodak Gold Medal Award

It is the purpose of this award to honor the recipient by recognizing outstanding contributions which lead to new or unique educational programs utilizing motion pictures, television, high-speed and instrumentation photography or other photographic sciences.

The Eastman Kodak Gold Medal Award for 1974 is presented to Charles F. Hoban, Jr., distinguished educator, researcher, author and technologist for his pioneering as well as continuing work relating motion-picture and television technology to the art and science of education.

John Grierson International Technical Award

It is the purpose of this award to honor the recipient by recognizing significant technical achievements related to the production of documentary motion-picture films.

The John Grierson International Technical Award sponsored by the National Film Board of Canada, is presented to Eric M. Berndt for outstanding pioneering achievements in the development, design and manufacture of the

In 1939 Mr. Berndt moved to the West Coast where he formed the corporation which developed into the Berndt-Bach Company, manufacturing Auricon 16mm sound cameras and recorders. Since leaving the company in 1960, Mr. Berndt has worked on special development projects and has also made a collection of early motion-picture equipment considered one of the best in the world.

In 1965 he was named Honorary Curator of the Motion Picture Section of the Hollywood Museum. Mr. Berndt has been a member of the Society since 1927 and was elected to Fellowship in 1939. He holds a number of patents relating to camera and sound for motion pictures. In 1972, Mr. Berndt was the recipient of the Society's Eastman Kodak Gold Medal Award.



Winners of SMPTE Awards. From the left, front row: Frank P. Brackett, Jr., Joseph A. Flaherty, Sidney P. Solow; back row: Waldon O. Watson, Wilton R. Holm (accepting for Georges Hansen), Christos A. Siocos, R. F. Zeitoun, W. T. Wintringham, J. S. Courtney-Pratt, Roy Edwards and Eric M. Berndt.

equipment and systems for small-format film, including 16mm, 8mm and 4mm. His early work in camera and optical sound recorders contributed greatly to the professional acceptance of small-format film, particularly in the area of documentary film production where flexibility and portability of equipment were of prime consideration.

Eric M. Berndt received his early training in motion-picture technology at Siemens in Germany. After emigrating to the United States in 1922 he was associated with various research and development projects, including projects at Duplex Motion Pictures Industries and RCA Photophone.

In 1932 Mr. Berndt established his own company, which produced the first professional sound-on-film 16mm motion-picture camera and the first 16mm sound recorder. In 1935 he was joined by John Maurer to form the Berndt-Maurer Corporation, which manufactured sound cameras, galvanometers, recorders and other motion-picture apparatus.

The Journal Awards for 1973 & 1974

It is the purpose of this award to recognize the outstanding paper originally published in the *Journal* of the Society during the previous calendar year.

The Journal Award for 1973 is presented to L. E. DeMarsh for his paper entitled "Optimum Telecine Transfer Characteristics," published in the October 1972 issue of the Journal of the SMPTE.

Honorable Mention for 1973 is awarded to R. F. Zeitoun and C. A. Siocos for their paper entitled "Broadcasting From Satellites — UHF Television Channel Utilization," published in the March 1972 issue of the Journal of the SMPTE.

The Journal Award for 1974 is presented to W. J. Hannan, R. E. Flory, M. Lurie and R. J. Ryan for their paper entitled "HoloTape: A Low-Cost Pre-recorded Television System Using Holographic Storage," published in the November 1973 issue of the Journal of the SMPTE.

Herbert T. Kalmus Gold Medal Award

It is the purpose of this award to do honor to the recipient by recognizing outstanding contributions in the development of color films, processing, techniques or equipment useful in making motion-pictures for theater or television use.

The Herbert T. Kalmus Gold Medal for 1974 is awarded to Dr. Frank P. Brackett, Jr., in recognition of his outstanding leadership, during the 37 years of his technical direction at Technicolor, Inc., in the advancement of the science of color in motion-pictures. By applying recognized scientific principles and methods into the art of color photography, he has contributed greatly to the growth, improvement and use of this medium.

Dr. Frank P. Brackett, Jr., graduated from Pomona College in 1928, and received his M.A. (1929) and Ph.D. (1933) from Harvard University. After two years at Paramount Laboratory as a sensitometrist he joined Technicolor in 1935 and until his retirement in 1972 was successively in positive control, negative control, solution department foreman, control supervisor, plant superintendent, technical director and director of research. These positions included work on the development of the varied control and operational systems procedures and equipment unique to Technicolor. Optics, photography, sound, chemistry, mathematics and statistics were also involved along with mechanics and other engineering requirements.

Dr. Brackett is the author and co-author of numerous technical papers published in this *Journal* and the *Journal of the American Chemical Society*. Since his retirement, he has been engaged in consultation engineering work, specializing in color motion-picture laboratory technical operations and quality control, and photochemical process evaluation.

A member of SMPTE since 1944, Dr. Brackett was elected a Fellow in 1967. He has been an active committee member, including the chairmanship of the Color Committee, was Program Chairman for the 112th SMPTE Conference, and has been an instructor at several of the SMPTE-sponsored courses at USC.

Award for Outstanding Service to the Society

It is the purpose of this award to provide recognition of individuals for outstanding contributions of major benefit to the Society.

The Award for Outstanding Service to the Society is given to C. Carroll Adams in recognition of his outstanding service to the Society of Motion Picture and Television Engineers. Over a period of many years he has contributed significantly of his time and technical exper-



SMPT Vice-President for Television Affairs, Joseph Flaherty accepting the David Sarnoff Gold Medal for 1974.

tise to the Society. This recognition acknowledges not only his willingness to serve, but also the quality and quantity of his contributions.

C. Carroll Adams received his B.S. in Mechanical Engineering from USC and his M.S. from Cal Tech. From 1960 to 1966 he was director of motion-picture production for Sural, Inc., and invented, designed and developed numerous devices to aid in surgical cinematography. Since 1966 he has been President of C. Carroll Adams Enterprises, providing engineering expertise to many branches of the entertainment industry, ranging from industrial show sound and lighting systems to design of complete motion-picture and television studio complexes. He is presently designing several projects in the U.S. and in the Orient.

Mr. Adams served on the Local Arrangements Committee for every SMPTE Conference in Los Angeles since 1961; for every Conference since 1966 he served as Public Address and Recording Chairman. He was elected a Fellow of the SMPTE in 1971.

David Sarnoff Gold Medal Award

It is the purpose of this award to honor the recipient by recognizing outstanding contributions in the development of new



C. Carroll Adams receiving the Award for Outstanding Service to the Society. This Award is a new one. Mr. Adams is the first recipient.

techniques or equipment which have contributed to the improvement of the engineering phases of television, including theater television.

The David Sarnoff Gold Medal for 1974 is awarded to Joseph A. Flaherty, Jr., for major contributions to the planning of complex network television production centers, to the evolution of electronic news-gathering techniques, including the use of highly mobile color television equipment and to the concept of computer-controlled videotape editing systems.

Joseph A. Flaherty, Jr., received his degree in physics from the University of Rockhurst, Kansas City, in 1952. He was Director of Technical Operations for WDAF-TV, Kansas City, before joining CBS in 1957 where he was involved in designing television network systems and plants. In 1959 he transferred to the Operations Department as Director of Technical Facilities Planning, and, in his present position as General Manager, Engineering Development, is presently responsible for all engineering and development for the CBS Television Network, including planning and coordinating the development of new equipment and for the installation of technical facilities for the CBS network plants in New York, Hollywood and Washington.

Mr. Flaherty was elected a Fellow of the Society in 1966 and was Chairman of the New York Section in the same year. He has been active in committee work and is presently Chairman of the Television Committee; he is also at present serving a two-year term as Vice-President for Television Affairs.

In 1969 Mr. Flaherty received an Emmy Citation for the development of the CBS Minicam Color Camera. He is co-author and author of papers published in the *Journal of the SMPTE* and produced two training films on television operating practices and lighting.

Special Commendation Awards

It is the purpose of these awards to recognize outstanding contributions to motion-picture and television technology in all parts of the international industrial community.

Prof. M. V. Antipin, Institute of Film Engineers, Leningrad, for his contributions to motion-picture technology.

Georges Hansen, Director, EBU Technical Centre, Brussels, for his contributions to radio and television technology.

Bernard Happé, formerly Technicolor, Ltd., London, for his contributions to motion-picture technology.

Alphonse Ouimet, Past President, Canadian Broadcasting Corp., Ottawa, for his contributions to radio and television technology.

Dr. Richard Theile (Deceased), formerly Director, Institut für Rundfunktechnik, Munich, for his contributions to radio and television technology.

William T. Wintringham, formerly Bell Telephone Laboratories, Murray Hill, N.J., for his contributions to radio, television and motion-picture technology.

Samuel L. Warner Memorial Award

It is the purpose of this award to do honor to the individual by recognizing outstanding contributions in the design and development of new and improved methods and/or apparatus for sound-on-film motion-pictures, including any step in the process.

The Samuel L. Warner Memorial Award for 1974 is presented to Waldon O. Watson for his persistent efforts to improve and maintain the sound quality of motion-pictures, especially in the assurance of optimum acoustical conditions for music scoring and rerecording, and in the implementation of crystal-control motion-picture studio camera motors.

Waldon O. Watson received his education at California Institute of Technology, Columbia College and UCLA. As Sound Director for Republic Studios, Universal Studios and MCA (now retired) he engineered a closed-circuit video system at 30 or 24 frames/s from four projection rooms; a color film chain for local television stations to 40 receivers through a video switching system; new concepts in design of Universal's scoring stage; a film marking and indicating system; a plural control soundtrack system; a control system for motion-picture apparatus; automatic high-efficiency production recording channels; and 24-position 6-channel music mixing console.

Mr. Watson has been the recipient of seven Academy nominations for sound awards, and a Class Three Award for new concepts in scoring stage design. He is the author and co-author of several papers on sound recording systems and equipment.

In 1966 Mr. Watson was elected to Fellowship in the SMPTE and has been active in the Sound and 16 & 8mm Committees. He is a past Manager of the SMPTE Hollywood Section, a past Board member of the Academy of Television Arts and Sciences, and a member of the AMPAS Scientific and Technical Awards Committee.

New Fellows of the Society

Romauld W. Bachmayer, Vice-President and General Manager, Cinema Systems Div., Technicolor, Inc., majored in Chemical Engineering at the South Dakota State School of Mines and Technology. Following service in the Kodak lab, Rochester, and the U.S. Navy lab, Anacostia, he joined Technicolor in 1946 where he has been on the research lab staff and the administrative staff, and has held the positions of Plant Superin-

endent, Assistant Plant Manager, Plant Manager, Vice President and General Manager Motion-Picture and Television Divisions. In addition to SMPTE, Mr. Bachmayer is a member of the Academy of Television Arts and Sciences and a Director of the Association of Cinema Laboratories.

Robert A. Castrignano, General Manager, TV-EVR Dept., CBS Laboratories, holds BSEE and MEE degrees. He joined CBS Labs in 1942 and has worked on many new television — motion-picture concepts representing breakthroughs in the state of the art, including the development of a viable system of electronic video recording. He is now directing the technology required to produce low-light-level TV cameras, a variety of TV signal processing equipment and an R&D program to develop digital

Frezzi-Lite, holds seven patents in the U.S. and the U.K. related to cordless lightweight 16mm sound-on-film cameras and accompanying equipment for the newsfilm industry, including battery power sources, power inverters, battery charging and discharging apparatus, portable lighting units, special film magazines, amplifiers and crystal-control power packs. Mr. Frezzolini has published a number of technical articles on cordless camera design, rapid-focus telephoto lens adaptations, and electronics related to motion-picture and TV technology in its newsfilm applications. He is a Fellow of the National Press Photographers Association.

Everett L. Hanson, Plant Engineer, DeLuxe General, Inc., during his many years of laboratory experience has supervised the development and installation of



Some of the Fellow Award recipients, assembled after the Get-Together Luncheon. From the left: Edward Reichard (accepting for Joseph Westheimer), Robert M. Smith, Robert A. Castrignano, James J. Frezzolini, Ellis K. Dahlin, Everett L. Hansen, Edward B. Krause, Christos A. Siocos and Melvin G. Sawelson.

television techniques. Mr. Castrignano is co-inventor of a video and film recording apparatus and has a patent pending for a film-stabilizing system for electron beam recording.

Ellis K. Dahlin, Manager, Video Tape Systems Service Engineering, CBS Television Network, worked with the late Ellis D'Arcy at DeVry during World War II on the Link Trainer, and in 1960, as Engineer-in-Charge of Maintenance & Construction at WBBM-TV, Chicago, gave general direction to the original development by Charles Coleman of the Amtec time error corrector. As Chairman of the Time & Control Code Subcommittee of the SMPTE Video Tape Recording Committee he contributed greatly to the successful achievement of agreement among users and manufacturers on the basics of a time-code format now being processed as an ANSI Standard and an SMPTE RP.

James J. Frezzolini, President, Frezzolini Electronics, Inc., inventor of the

all types of film-processing machines, developed an edge numbering system on Bell & Howell Model E machine release prints for educational films, designed an electrical level control for developing machine elevators, devised an electric film brake used on all DeLuxe General developing machines, and adapted a sliding flange roller for a Bell & Howell Model C printer to make possible the printing of 16mm and 35/32mm, single- or double-rank release prints. Mr. Hanson holds two patents, and has one pending, on his inventions, and has published four papers in the *Journal of the SMPTE*.

Edward B. Krause, President, Filmline Corp., has been responsible for many advances and achievements in film-processing technology, among them the development of "micro-demand" self-adjusting tension-controlled tendency film drive, an improved spray-wash technology, improved infringement-drying and submerged-agitation techniques for TV newsfilm using the ME-4 color process,

the design and construction of a 70mm processing machine for NASA for processing SKYLAB 2-mil polyester base film, and high-efficiency spray nozzle designs. Mr. Krause has published several technical papers, and has awards and commendations from TV News Broadcasters, NASA and others.

Manfred G. Michelson, Engineering Consultant, majored in Engineering at UCLA. While with DeLuxe General, Inc. he was responsible for the production design of a 200-ft/min 35/16 step reduction printer, a new automatic sensitometer, a focal-plane detector and servo follower, and an integrated system for automatic computerized film-processing control for which he received a Class III Academy Award in 1972. Mr. Michelson is author and co-author of five papers published in the *Journal of the SMPTE* and is currently Chairman of the Laboratory Practices Committee. His present consulting work is in the area of film and document handling systems and computer peripherals.

Leo J. Nicastro, Process Supervisor, Technicolor, Inc., has worked since 1947 on various research projects for 20th Century-Fox (Lenticular Color Process, Eidophor, CinemaScope), MGM Laboratories (Martinez Color Process), and Technicolor, Inc. (Eastman Color Process, Technicolor Imbibition Process). Assistant to P. L. Martinez during research on the subtractive color process, he completed the research after Mr. Martinez' death, leading to the formation of Panacolor Corp. Mr. Nicastro was granted a patent in 1968 for a color process using a single-layer silver halide emulsion.

Melvin G. Sawelson, Executive Vice-President, Consolidated Film Industries and President, Glen Glenn Sound, founded Acme Film Laboratories in 1948 while attending USC. In 1959 Acme became the first motion-picture laboratory to install a videotape department; when this was acquired by CFI in 1971 Mr. Sawelson joined CFI and installed the first commercially available CMX 600 random-access videotape editing system. With Cinemobile Systems he formed Videomobile Systems to provide mobile video trucks for television production. Mr. Sawelson has published a number of technical articles, and was Television Topic Chairman for the 112th SMPTE Conference. Besides SMPTE, his memberships include AMPAS, ATAS and ACE.

Donald J. Sheaff, Vice-President of International Operations, Technicolor, Inc., has been active in the motion-picture industry since 1942. Prior to joining Technicolor he was laboratory supervisor at Pacific Title and Art and general



Jeffrey Courtney-Pratt receiving the Honorary Membership Award.

manager of Panacolor Corp. He was responsible for quality control at the U.S. Air Force Lookout Mountain Laboratory and for the initial establishment of a quality-control program at the Vandenberg Air Force Base laboratory. Mr. Sheaff has been Vice-President and General Manager of Technicolor's Cinema Systems Div. and TV Div. In his present position his responsibilities include the Technicolor Laboratories in England, Italy and Hollywood.

Christos A. Siocos, Chief Consultant Engineer, Canadian Broadcasting Corp., conducted the studies leading to the introduction of domestic satellite links for TV and radio distribution in Canada and made important contributions to their integration in the networks of the CBC. In the field of broadcasting from satellites he contributed significantly to Canadian studies for domestic and international purposes. Mr. Siocos has represented CBC at numerous international meetings, and was recently elected Vice-Chairman of CCIR Study Group II (Television). In Canada he chairs three study groups (10, 11 and CMTT) of the National Organization of the CCIR. Mr. Siocos has published some 22 papers and notes, several in the *Journal of the SMPTE*.

Robert M. Smith, First Vice-President, DuArt Film Laboratories, Inc., developed the sensitometric and chemical formulas for the first all black-and-white spray processor in a commercial laboratory and for the first portable newsfilm processing machines, and worked with CBS News Engineering and J. M. Developments on sensitometric control procedures for the first high-speed magnetic



SMPTE Engineering Vice-President William T. Wintringham receiving the Special Commendation Award.

to optical composite single-pass printer to produce silver optical composite color release prints. During the past four years Mr. Smith has done extensive lecturing for university and college film courses in the northeastern states, as well as organizing audiovisual programs at DuArt for such student groups. He has been co-author of two SMPTE papers.

Jan W. Varossieau, Director, Educational Media Institute, University of Utrecht, Holland, began his activity in scientific filmmaking before World War II. In 1950 he established a scientific film unit for the University of Utrecht and is a founder-member of the Netherlands Scientific Film Association of which he was President 1967-71. Mr. Varossieau joined the University of Utrecht as a lecturer in 1967 and assumed his present position in 1969. He has established professional connections with photographic organization in many parts of Europe and is a Fellow of the Royal Photographic Society. He is the author of numerous papers in professional journals, including the *Journal of the SMPTE*.

Joseph Westheimer, President, Westheimer Co., has a BS degree in Electrical Engineering from Cal Tech and has worked in the optical-effects department of Warner Brothers, Hal Roach Studios, Goldwyn Studios and Consolidated Film Industries before forming his own company for the design and construction of special equipment for special effects and titles. He is Chairman of the Special-Effects Subcommittee and a member of the Special Visual Effects Awards Committee of AMPAS. Mr. Westheimer received ATAS awards in 1966-67, 1967-68 and 1968-69 for his work on the television series "Star Trek," and a Certificate of Commendation from USC. He is the author of three papers published in the *Journal of the SMPTE* and is a Charter Member of ASC.

Irwin W. Young, Chairman of the Board, DuArt Film Laboratories, Inc. and Rombex Video Productions graduated from Lehigh University. His engineering accomplishments include design and engineering changes on Eastman Negative II Processor; construction of the first Eastman Color Neg/Pos Processor in an East Coast commercial laboratory; modification of equipment to permit safe flashing of Ektachrome 7241 and 7242 films with constant reference exposure; and, with Rombex Video Productions, development of a method of putting a double bilateral soundtrack directly on Ektachrome 7252, permitting electronic printing from videotape to film. Mr. Young has been the recipient of two film festival awards: in Venice for "Nothing But a Man," and at the American Film Festival for "The Maze."