

Awards Presentation 1976

The Awards Presentation, a ceremony observed annually at the Society's Conferences, took place Monday, 18 October. The awards were presented following the Get Together Luncheon, according to a long-standing tradition of the Society. President Kenneth M. Mason presented the awards listed below to the recipients or their representatives. The work of James Wong Howe, a distinguished cameraman, was recognized posthumously by a Special Commendation Award accepted by Peter Keene.

Fifteen newly-elected Fellows of the Society received certificates from President Mason at the Fellows Luncheon held at the Engineers Club on Tuesday, 19 October. The Award citations and brief biographies of the recipients appear below.

Honorary Membership

It is the purpose of election to Honorary Membership of the Society to honor an individual who has 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 course of development of the entire world television industry was changed by the introduction in 1956 of a practical videotape recorder. This development was made possible by the inspired technical and personal leadership provided by Charles Ginsburg to a small group of engineers which bound them into a highly productive team. Twenty years later the concepts established in that first recorder are virtually unchanged, and the performance of such recorders is the reference against which all other types are measured.

Currently, Mr. Ginsburg is deeply involved in the application of digital techniques to television, and he is recognized throughout the world for his contributions to television technology.

In view of these outstanding and continuing contributions the Society of Motion Picture and Television Engineers awards Charles Ginsburg, Honorary membership in the Society.

Charles P. Ginsburg joined Ampex Corporation in 1952. He has held a number of engineering positions with the company and was appointed Vice-President — Advanced Development in 1960.

As a result of the accomplishments achieved by the group which he headed, Ampex revolutionized the television industry with its introduction of television recording on magnetic tape in 1956. For his pioneering contributions to the development of video magnetic recording, Ginsburg has received the following professional recognition: David Sarnoff Gold Medal of the Society of Motion Picture and Television Engineers, 1957; Vladimir K. Zworykin Television Prize of the Institute of Radio Engineers, 1958; Valdemar Poulsen Gold Medal of the Danish Academy of Technical Sciences, 1960; Howard

H. Potts Medal of the Franklin Institute, 1969; Master Designer Award of *Product Engineering* magazine, 1969; the John Scott Medal of the Board of Directors of City Trusts of the City of Philadelphia, 1970; elected a member, National Academy of Engineering, 1973; the Video Achievement Award from the International Tape Association, 1975; and a citation from the International Television Symposium of Montreux, 1975.

Mr. Ginsburg attended the University of California and San Jose State College, receiving a B.A. degree from the latter in 1948. He is a Fellow of both the Society of Motion Picture and Television Engineers and of the Institute of Electrical and Electronics Engineers and in 1971 was made a Life Fellow Member of the Franklin Institute of the State of Pennsylvania.

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 Edward H. Reichard in recognition of his many notable engineering contributions to the design of equipment and procedures and for his significant technical achievements in the field of motion-picture laboratory technology.

Edward H. Reichard, Vice-President and Chief Engineer of Consolidated Film Industries and a Fellow of the Society, has served the SMPTE as a member of the Board of Governors from 1960 to 1969 and as Vice-President for Motion-Picture Affairs from 1970 to the present. He has been, for many years, an active member of the Standards Laboratory Practices and Color Committees, as well as having served on the Fellow, Kalmus and Progress Medal Awards Committees. He is also at present a member of the Public Relations Advisory, the Revisions and the Papers and Publications Advisory Committees of the Society.

In addition to the SMPTE, Reichard is

an active member of the Academy of Motion Picture Arts and Sciences, the National Academy of Television Arts and Sciences and an Associate member of the American Society of Cinematographers. He is a graduate Mechanical Engineer from Stevens Institute of Technology and a registered Professional Engineer in the State of California.

Mr. Reichard has been the recipient of 10 scientific and technical awards from the Academy of Motion Picture Arts and Sciences.

The Agfa-Gevaert Gold Medal

It is the purpose of this award to do honor to the recipient by recognizing the individual's outstanding leadership, inventiveness and/or other achievement in the research, development, or engineering of new techniques and/or equipment which result in a significant improvement to the interface between motion-picture film and television imaging systems, whereby the combined advantages of both contribute to the further development of visual communications systems.

The Agfa-Gevaert Gold Medal Award is presented to Daan Zwick, in recognition of his outstanding leadership in the promotion of advanced engineering practices and techniques which resulted in significant improvements to the interface between motion-picture film and television imaging systems.

Mr. Zwick, as an engineer, lecturer and author, devoted his time and energies to the improvement of motion-picture films for television, television film operations and the continuing education of personnel engaged in both media. By his perseverance and knowledge, he has greatly contributed to the progress of the film/video interface.

Daan Zwick is currently Senior Re-



Charles P. Ginsburg addressing the membership after having been awarded Honorary Membership in the SMPTE.



Edward H. Reichard accepting the Society's Progress Medal.

search Laboratory Head, Color Physics and Engineering Laboratory, in the Kodak Research Laboratories in Rochester, New York. During thirty years in the laboratories he has worked on new and improved color films, including the Eastman Color motion-picture films, and has investigated problems in photographic image structure. He has also studied the performance of film in television broadcasting. Most of this work has been published in the *Journal of the SMPTE*.

He has been active in the Rochester Section and in the semi-annual national conferences and regional technical conferences. He has been a member of the Color and Television Technical Committees and several sub-committees. In these capacities he has represented SMPTE on the Ad Hoc Committee for Color Television Study (JCIC), on the U.S. Study Group for CCIR and in the Inter-society Color Council.

A Fellow of SMPTE, Mr. Zwick was awarded the Herbert T. Kalmus Gold Medal Award by the Society in 1972.

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 is given to Herbert E. Farmer, for his role in the advancement of education for motion-picture production.

He has been a national and international leader in assembling and adapting the necessary instructional technology to enable each student to combine personal production experience with theory. This work and his efforts in standardization, his interests in film archives, and his use of industry leaders as classroom teachers has done much to bring stature to a new academic discipline and an ever-widening acceptance of film study as a rightful part of formal education.

Herbert E. Farmer is Professor of Cinema and Associate Chairman for Administration, Division of Cinema, University of Southern California. At USC since 1938 he both practiced and taught 16mm pro-



Daan Zwick accepting the Agfa-Gevaert Gold Medal.

duction to the student body and to large numbers of overseas students and has in large measure been responsible for the organization and conduct of the film and laboratory courses sponsored by SMPTE at the University.

Mr. Farmer is Trustee and Secretary of the University Film Foundation, a member and former President of the University Film Association, a Director of the Council on International Non-Theatrical Events, and U.S. Technical Advisor to IEC/SC60C on Standards for Educational Media Equipment. He has held many offices in SMPTE, including Governor, Secretary, Editorial Vice-President and Vice-President for Educational Affairs. Mr. Farmer is a Fellow of the Audio Engineering Society and received the AES Award in 1957.

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 Gold Medal Award is given to Gerald G. Graham, a leader in the research, development and application of equipment and techniques in the documentary film field, who was highly instrumental in achieving the National Film Board of Canada's reputation for technical excellence in its films. Mr. Graham worked directly under John Grierson, the Board's first Film Commissioner, in establishing its early production facilities and remained as the technical architect of its development. Due to his early efforts, as well as to his dedication in the ensuing years, many innovations and techniques were introduced which were to establish and maintain the quality and prestige of the documentary film.

Gerald G. Graham retired in 1975 as Director of Planning and Research, National Film Board of Canada. He was also Chairman, Federal Working Committee on Audio-Visual Systems in Education for Department of Communications, Ottawa and member of National Film Archives Advisory Committee.

Mr. Graham was for more than twenty



Herbert E. Farmer accepting the Eastman Kodak Gold Medal Award.

years in charge of technical operations at N.F.B. responsible for camera, sound, laboratory, animation, special effects, research and engineering operations. Working under John Grierson during the formative years of the documentary film, he was largely responsible for quality improvements, particularly in 16mm black-and-white and color processing.

Besides being actively involved in establishing the Canadian Sections of the Society, Mr. Graham has held many offices in SMPTE including Governor and Editorial Vice-President. Recent publications are "A Canadian Film Training Project" published in the *BKSTS Journal* and "Future of Film Production" which appeared in the September 1974 *SMPTE Journal*.

The Journal Award

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 1975 is presented to K. Kano, T. Imai, M. Inaba, A. Sugimoto, Y. Itoh, Y. Inoue and T. Shimizu for their paper entitled "Television Frame Synchronizer," published in the March 1975 issue of the SMPTE Journal.

Ken-Ichi Kano, Manager, Video Engineering Dept., Nippon Electric Co., is a specialist in TV studio equipment design.

T. Imai, General Manager, Nippon Electric Co., is in charge of the Broadcasting Division.

M. Inaba, Assistant Manager, Nippon Electric Co., is engaged in the development of digital TV equipment.



Gerald G. Graham accepting the John Grierson International Technical Award.



T. Shimizu (l.) and Ken-Ichi Kano accepting the Journal Award.



Ioan Allen accepting the Journal Award Honorable Mention.



Stephen Herman accepting the Journal Award Honorable Mention.

A. Sugimoto, Supervisor, Nippon Electric Co., designs TV frame synchronizers and digital TV equipment.

Y. Itoh, Director of Engineering Division, Tokyo Broadcasting System, is concerned with technical research and development of TV transmission systems and facilities.

Y. Inoue, TV Remote Pick-Up Dept., Tokyo Broadcasting System, is engaged in technical research and development of microwave links and video transmission systems.

T. Shimizu, Tokyo Broadcasting System, is engaged in technical research and development of TV cameras, TV facsimile, and videotape recorders.

Journal Award — Honorable Mention

Honorable Mentions were awarded to:

Ioan Allen for his paper entitled "The Production of Wide-Range, Low-Distortion Optical Soundtracks Utilizing the Dolby Noise Reduction System," published in the September 1975 *Journal of the SMPTE*.

Stephen Herman for his paper entitled "The Design of Television Color Rendition," published in the April 1975 *Journal of the SMPTE*.

C. J. Bartleson for his paper entitled "Optimum Image Tone Reproduction," published in the August 1975 *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 Memorial Award for 1976 is presented to Bernard Happé. During his long career covering all aspects of the motion picture industry, Bernard Happé has made continual and significant contributions in connection with the processing and use of color film for the theater and for television. His work and achievements in this respect are admirably reviewed in his book, "Basic Motion Picture Technology."

Prior to his retirement, **Bernard Happé** was Technical Manager, Technicolor Ltd., England. He joined the Process Control department of Technicolor Ltd. at their newly established laboratory in London on January 1, 1936, subsequently becoming Plant Superintendent and Technical Manager. He was closely associated with the developments of the Technicolor process and the expansion of the Technicolor Ltd. laboratories during the whole of this period, as well as such special projects as the Dome A.A. Gun Trainer during World War II and the introduction of the educational single-concept film in 8mm cassettes in 1961. Since retirement he has continued on a part-time basis with Technicolor Ltd. as consultant on their project for building a dye-transfer process laboratory for the Chinese Government in Peking.

Mr. Happé is also a consultant and technical writer on motion-picture technology; Technical Editor of "Screen Digest" since 1972 and of "Video and Film" since 1974; member of several technical committees on cinematography of the British Standards Institution and former

member of its Engineering Divisional Council; co-editor (Film subjects) of the "Focal Encyclopedia of Film and Television Techniques" (1969); and author "Basic Motion Picture Technology" (1971) and revised edition (1975) and "Your Film & the Lab" (1974). He has presented various technical papers at international conferences of BKSTS and UNIATEC.

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

The David Sarnoff Gold Medal Award for 1976 is given to Adrian B. Ettlinger for important contributions to the application of computers to on-air television station switching control; for conceiving of the application of videodisc stop-action systems to sports broadcasts; for contributions to computer control of studio lighting systems and videotape editing systems.

Adrian B. Ettlinger is a consultant in television production and broadcasting technology, minicomputer control systems, video and digital equipment product planning and software. From 1948 to 1970 he was at CBS Television Network successively as Design Engineer, Project Engineer, Section Manager, Associate Director of Development, and Staff Consultant in the department responsible for design and installation of television broadcasting facilities and for advancement of



Bernard Happé accepting the Herbert T. Kalmus Gold Medal Award.



Adrian B. Ettlinger accepting the David Sarnoff Gold Medal Award.



Alfred W. Lumkin accepting the Samuel L. Warner Memorial Award.



Richard S. O'Brien accepting a Special Commendation Award for Howard A. Chinn.

broadcasting state of the art.

He was responsible for original concept and systems project management for the first application of a stored-program computer to TV station KNXT, Los Angeles, on-air switching control (1960). He performed the same functions for a more advanced system for CBS television network facilities in New York (1964), and formed the concept and supervised development of the original "Stop Action" videodisc recorder which has evolved into the standard special effects device for sports telecasting instant replay. This innovation won an "Emmy" Award in 1966.

Mr. Ettlinger designed system architecture and managed engineering and software effort for minicomputer control systems used for television program production. He is the inventor of an original computer-controlled videotape editing system (1969) which founded CMX Systems, and of Auto Cue[®] memory lighting control system (1970); and co-inventor of electronic color control equipment which won an "Emmy" Award for CBS in 1971.

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 1976 is presented to A. W. (Tony) Lumkin, for his continuing efforts to establish standards for the acoustic response in cinema theaters and rerecording theaters as well as describing



James Roberts accepting a Special Commendation Award.



Peter Keane accepting a Special Commendation Award for James Wong Howe, which was awarded posthumously.

practical methods for measuring such acoustical characteristics so that products (soundtracks) generated in any standardized rerecording theater would play back satisfactorily in any standardized cinema theater throughout the world.

Alfred W. Lumkin is Technical Consultant to the EMI group of companies in England. After a short period as a sound engineer for RCA (Great Britain) Ltd. and Riverside Studios, he was Chief Sound Engineer for Associated British Picture Corp. Ltd. from 1948 to 1957, Recording Director to 1969, Executive in charge Technical Services EMI Elstree Studios Ltd. to 1975.

Since 1975 Mr. Lumkin's technical activities have included: involvement in improvement of sound reproduction in theaters and development of parameters for international standardization; involvement with Dolby Laboratories, Inc. in development of high-fidelity monophonic encoded photographic soundtracks; involvement with Dolby Laboratories, Inc., Eastman Kodak and RCA in development of 35mm stereo variable area photographic sound tracks for theatre release prints; and Chairman ISO/TC36 P.W.G.3 Sound Recording and Reproduction.

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.

Howard A. Chinn, for his contributions to television technology. For many years with CBS TV Network, he is best known for his interest in improving the perfor-



John A. Schneider accepting a Special Commendation Award.



Hazard E. Reeves accepting a Special Commendation Award.

mance of audio-video equipment and systems.

James Wong Howe, a posthumous award made in recognition of his contributions to motion-picture technology. During his brilliant 58-year career as cameraman, he won two "Best Cinematography" Academy Awards and was nominated seven other times.

Hazard E. Reeves, for his contributions to motion-picture technology. Founder of numerous companies providing sound equipment and services for the industry; formerly President and Chief Executive Officer of Cinerama, Inc.

James Roberts, for his contributions to motion-picture technology. Executive Director of the Academy of Motion Picture Arts and Sciences.

Gordon Sawyer, for his contributions to motion-picture technology. The dean of sound engineers of the U.S. motion-picture industry; for more than 40 years at Goldwyn Studios, where he was head of the Sound Department at the time of his retirement.

John A. Schneider, for his contributions to television technology. As President of the CBS Broadcasting Group he has enabled and encouraged the innovative application of new technology to the production and distribution of television news and entertainment programs.

Citation 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.

Frank J. Eberhardt, MP & AVMD,



Frank J. Eberhardt accepting a Citation for Outstanding Service to the Society.



Maurice L. French accepting a Citation for Outstanding Service to the Society.



Don V. Kloepfel accepting a Citation for Outstanding Service to the Society.



Harry Teitelbaum accepting a Citation for Outstanding Service to the Society for M. Warren Strang.



John R. Sullivan accepting a Citation for Outstanding Service to the Society.

Eastman Kodak Co., for his long-term efforts in promoting and maintaining the Florida-Caribbean Section activities.

Maurice L. French, *Canadian Broadcasting Corp., for his outstanding services and contributions to the Toronto/Rochester Little Conventions, the Toronto Section, and the 116th Conference, Toronto.*

Donald V. Kloepfel, *Don V. Kloepfel & Associates, for his efficient performance of the projection services for national conferences and section activities on the west coast over a period of many years.*

M. Warren Strang, *Hollywood Film Co., for his remarkable performance as Exhibit Chairman for national conferences in Los Angeles over a period of more than ten years.*

John R. Sullivan, *Eastman Kodak Co. (retired), for his many services to the Hollywood Section and particularly for his initiation and development of recognition and service plaques for Section use and for Society officers and governors.*

New Fellows of the Society

Hellmut Berger, Director of Engineering, Baton Broadcasting, Inc., Toronto, emigrated from Germany to Canada in 1953 where he was first employed by the Canadian Broadcasting Corporation in charge of operational standards and maintenance of television film facilities. In 1959 he became director of engineering for Robert Lawrence Productions, Toronto, and in 1962 entered his present position as Director of Engineering for CFTO-TV, with responsibility for all engineering activities conforming with DOC standards maintenance of the station and transmitter facilities. For the past six years Mr. Berger has been working with the Engineering Consortium for AM and TV transmission from the CN Tower. His memberships include the Engineering Committee of the CTV Network, the Canadian Telecasting Practice Committee, the Engineering Committee of the Canadian Association of Broadcasters, the CSA Z46 Standards Committee for television recording, the CCIR 10/11 Working Group on Monochrome and Color Television and Broadcasting from Satellites, CNC/IEC/SC TC60 of the Standard Council of Canada.

Phillip H. Budden, Chairman of Directors, Colorfilm Pty Ltd., Camperdown, Australia. Mr. Budden entered the industry in 1927 as laboratory technician and later director of Commonwealth Film Laboratories, Ltd., Sydney. Under his guidance and supervision the company merged with others eventually to become the present organization, Colorfilm Pty Ltd. As an engineer specializing in the requirements of film processing, he had continuously provided technical information and advice to his own network of companies as well as anyone within the film industry of Australia. Mr. Budden has

been active in the development of the SMPTE in Australia and contributed largely to the establishment of the Australian Section. He is rightly regarded as one of the outstanding pioneers of the industry in Australia. Mr. Budden is a member of the Australian Cinematographers Society and the BKSTS.

Roland G. F. Chase, Chairman and Managing Director, Colour Film Services Ltd., London. Since its formation in 1948, equipment has been continuously developed by the company for its own use, notably the system used for the transfer of videotape to film to produce prints that have received worldwide acceptance. Mr. Chase has been long active in the BKSTS, receiving an Honorary Fellowship in 1961, the Society's Award of Merit in 1973, and occupying the office of President 1966 to 1968. Mr. Chase has contributed a number of technical papers to the BKSTS *Journal* and served as chairman of the Film '71 Conference Committee. He is a member of the British Society of Cinematographers.

Bertie James Davies, Director of Motion Picture Product Programs (Europe) European Photographic Division, Eastman Kodak Company, England. Since joining Kodak in 1949, Mr. Davies has been assigned to various technical positions culminating as Production Planning Manager in 1974. He was transferred to his present position in May of 1976. From 1962 to 1976 he has been a UK delegate to ISO primarily responsible for Film Dimensions. Mr. Davies is a Fellow of the BKSTS with which he has been active for many years, serving as Honorary Editor, Honorary Treasurer, and 1972 to 1973, President of the Society.

David J. Degenkolb, Senior Engineer, DeLuxe General Inc., Hollywood, was employed from 1963 to 1965 at Technicolor Company where he developed a four-minute technique for processing Ektachrome film without any wash steps. Since 1965 he has been with DeLuxe General where his contributions have included a computerized system capable of accurately predicting effluent loads and chemical efficiency, automation and consolidation of the Chemical Department, a patented dichroic safelight to replace sodium vapor lamps, and a photoelectric film tachometer. In 1972 Mr. Degenkolb received a Class III Academy Citation for Computerized Process and Printer Control and in 1975 a Class III Citation for Silver Recovery from Photographic Wash Waters by Ion Exchange. He has published six papers on laboratory practices in the Society's *Journal* and was topic and session chairman for the 115th and 117th SMPTE Conferences.

Raymond Fielding, Professor, Department of Radio-TV-Film, Temple University, Philadelphia, received his Ph.D. from



Hellmut Berger



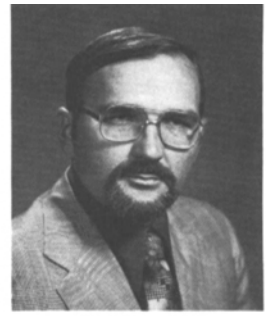
Phillip H. Budden



Roland G. F. Chase



Bertie James Davies



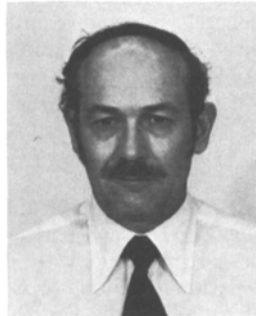
David J. Degenkolb



Raymond Fielding



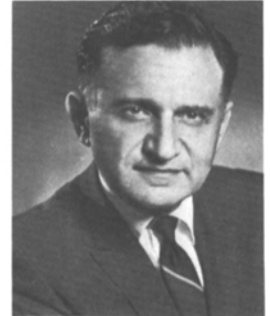
Frank P. Gloyns



Leonard A. Green



Oleg Ioshin



Paul A. Kaufman



Kenneth G. Lisk



Richard S. Marcus



Woodlief Thomas, Jr.



Pablo Weinschenk-
Taberbero

the University of Southern California. In addition to holding a number of teaching positions at USC, UCLA and Iowa University, Dr. Fielding has been for ten years (continuously) and twenty-five years (intermittently) active in the commercial motion-picture, radio and television industries as writer, producer, director and editor. His book, "The Technique of Special Effects Cinematography," published in 1965, is a standard reference on the subject, and in 1967 his book, "A Technological History of Motion Pictures and Television," received the First Prize at the Venice International Film Festival for the best book in its category in that year. Dr. Fielding has published numerous papers in professional and trade journals, including the *SMPTE Journal*. He is Past President of the University Film Association, a member of the Society for Cinema Studies and Information Film Producers of America, and a Trustee of the American Film Institute and of the University Film Foundation.

Raymond A. Gaul, Vice President and Director of Laboratory Operations, Technicolor Inc. (Cinema Systems Div.) has been active in the motion-picture in-

dustry since 1948. During this period he has held several laboratory positions, each one with increasing responsibility. He ranks as an outstanding executive in the laboratory area, having attained the position of Vice President in Charge of Production at DeLuxe General, and Vice President and Director of Laboratory Operations at Technicolor — two of the largest motion-picture release laboratories in the world. Through his leadership and encouragement of subordinates, he has been directly responsible for their contributions and participation in organizational and engineering activities of the SMPTE.

Frank P. Gloyns, Director, Technical Developments, Rank Film Laboratories Ltd., England, after initial experience at Technicolor Ltd. and Kodak Research Laboratories, joined Rank Laboratories in 1948. He received his Ph.D. from the University of London in 1947. At Rank Laboratories he has been concerned with the introduction of color processes, the installation of all developing and printing plant, and has established techniques of sensitometric and chemical control over a wide range of activities. His current inter-

ests include work on the spreading of solvents on film surfaces, the transfer of images from videotape to film by the laser beam color recorder, and the problems of high-speed processing and printing of color film. Dr. Gloyns has presented several technical papers to the SMPTE and the BKSTS. He is a Fellow of the Royal Institute of Chemistry, the Royal Photographic Society and the BKSTS.

Leonard A. Green, Chief, Sound and Projection Div., National Film Board of Canada, in his work at the Film Board and as consultant to many motion-picture organizations, has been influential in the advancement of sound recording techniques throughout Canada. His technical contributions have included work on videotape recording equipment for improved editing, the time-code system, and multi-track recording and multi-screen projections for the Labyrinth project at Expo 67. Mr. Green has published a number of papers on aspects of film and videotape recording in the *SMPTE Journal*. He is chairman of the SMPTE Sound Subcommittee on Time Codes, a member of ISO TC/36 PWG-3 on Sound, and chaired the PW3-3 subcommittee on Time Codes. He

was elected a corporate member of BKSTS in 1970.

Oleg Ioshin, Director — Science, Cinema and Research Institute (NIKFI), Moscow, started as design engineer working on optical printers. Today he is director of the largest motion-picture research center in the world comprised of more than 800 scientists and engineers. Dr. Ioshin has published numerous papers in the USSR on optical printers, wetgate systems and additive color systems. In 1975 he was the recipient of a SMPTE Special Commendation Award for his technical contributions to the motion-picture industry.

Paul A. Kaufman, President, Du Art Film Laboratories, Inc., New York, has made many important technical contributions during his 39 years at Du Art, including the flashing or K process, the processing of the first Eastman Color negative/positive feature subject processed in a commercial laboratory, the process and printing procedures to handle the first independent newsgathering service, supervision of the first 16mm Gevachrome Type 902 reversal developing with silver soundtrack application in a U.S. commercial laboratory, design and installation of the first Eastman Color Negative II, Type 5247 and 7247 machine in a U.S. commercial laboratory, a new computerized timing system consisting of tape corrector, mini computer, editing table, printing machine reader and analyzer. Mr. Kaufman has presented many technical papers on laboratory practices at SMPTE Conferences as well as to the New York Section of the Society. He is a member of SPSE.

Kenneth G. Lisk, Technical Associate, Photographic Technology Div., Eastman Kodak Co., Rochester, has made important

contributions to the improvement of films and telecine transmission of film. The tape-to-film transfer technology covered in his two SMPTE papers has had a major impact in the motion-picture and television industry and qualifies as important engineering achievement for the advancement of image recording and display. Mr. Lisk has provided technical consultation to tape and film users and equipment manufacturers for the improvement of the television image as well as applied electronics and photographic science for the expansion and improvement of all methods of motion-picture and television presentation. Mr. Lisk received Honorable Mention for the 1974 SMPTE Journal Award. He is a member of the Optical Society and the SPSE.

Richard S. Marcus, President, Rombex Productions Corp., New York, after an apprenticeship in the electro-dynamic testing department of the de Havilland Aircraft Co., joined the British Broadcasting Corp. where he worked in all phases of the operations and maintenance department. In 1963 he joined Ampex where he helped to introduce the VR 200 and helical recording in Europe. In 1966 he came to the U.S. and eventually set up the Actron Corp. for the transfer of electronic scan tapes to film. In 1967 he formed Rombex Productions Corp., a production and post-production facility for users of videotape and film and a subsidiary of Du Art. Mr. Marcus has published technical articles in trade and professional journals and has given courses at the New York Institute of Photography. He is currently engaged in giving monthly seminars on video technology for filmmakers. He is a member of IEEE and of the Royal Television Society.

Woodlief Thomas, Jr., Acting Assistant Director, Photographic Technology Division, Eastman Kodak Co., Rochester, has contributed greatly to the development of ECN-II film and process, ECP-SP Print Film 5383 and process, ECIN 7271 and other films and processes. He initiated studies of color balance, printing techniques, computer simulation of soundtracks and has made important contribution to the telecine technology. Mr. Thomas was Executive Secretary of SPSE for five years and editor of the SPSE Handbook of Photograph Science and Engineering. Besides SPSE, Mr. Thomas is a member of the Optical Society and the RPS.

Pablo Weinschenk-Tabernero, Motion-Picture Engineer, SMPTE. Mr. Weinschenk-Tabernero's long career in the motion-picture industry has included outstanding achievements in cinematography and film laboratory practices. As a director of photography in Spain and Argentina from 1933 to 1956, he was responsible for more than forty full length feature films and as Engineering Manager of Alex Laboratories Cinematograficos, S.A., Buenos Aires, from 1956 to 1967, he was in charge of engineering, quality control and general technology, black-and-white and color. In 1967 Mr. Weinschenk-Tabernero came to the U.S. where he was first with Moviellab, Inc. in charge of design and maintenance of optical printing equipment, specializing in liquid gate printing. In 1970 he joined the SMPTE staff as Conference Program Coordinator and subsequently as Assistant Staff Engineer. He received the Condor Award (Argentina's equivalent of the Oscar) in 1947 for best photography and the Motion Picture Critics of Argentina Award in 1955.

**The Annual Index
to Volume 85, 1976 will
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