



## Awards Presentation 1977

*The Awards Presentation, a ceremony observed annually at the Society's Conferences, took place Monday, 17 October. The awards were presented following the Get Together Luncheon, according to a long-standing tradition of the Society. William Friedkin, Producer/Director, Universal Pictures, presented the awards listed below to the recipients or their representatives.*

*Seventeen newly elected Fellows of the Society received certificates from President Hedden at the Fellows Luncheon held at Don the Beachcombers Club on Tuesday, 18 October. The Award citations and brief biographies of the recipients appear below.*

### Awards Speaker

The Awards were presented by William Friedkin, the well known Producer/Director with Universal Pictures. Among his many distinguished films is *The Exorcist*, a film seen by thousands upon thousands of fascinated viewers. Among other Friedkin films that have achieved high critical acclaim as well as success at the box office are *The French Connection* and *Boys in the Band*. Honors accorded to Friedkin include the Golden Globe Award for Best Director (1971) and the National Association of Theatre Owners accolade of Best Director of the Year (1974).

Excerpts from his talk are given below.

"There is a quality that all the films I have directed have in common — whether they've turned out good or bad, whether they please the public or not — and that is the technical standard they've enjoyed.

"That standard, of course, is not common to my work. It is taken for granted by anyone who directs a film or a television show today. I don't know whether movies or television shows are better than ever but one constant is the continually improving state of the art, and in my opinion, your technology has surpassed our creativity.

"There has never been a stronger urgency for the maintenance of that standard than now. We have reached the point where quality costs more and can no longer be taken for granted. It has become the province of those who care.

"For example, when *The Exorcist* opened in only 26 theaters around the country, members of the sound department of the Burbank Studios checked each of those theaters for technical specifications. They discovered a number of problems. One theater in New York was running with mis-matched projectors, one arc and one xenon, and had been running this way since

its inception. A theater in Minneapolis had a pothole in the screen. These were first-run theaters in major cities. When the exhibitors became aware of the problems, they moved to correct them.

"Technicians are the people for whom I have the most admiration and respect. I marvel at the wonders they continue to bring forth.

"Although the ultimate reward is not the award but the work itself, I can think of no group more deserving of praise than those people whose achievements are to be honored this afternoon.

"These awards may not have the glamour of an Academy Award or an Emmy, but without the work of these individuals and their care and concern, the efforts of the rest of us would be extremely limited.

"The people who are about to be honored are those who help people like me to achieve our dreams, and it is with great personal pride that I take part in their recognition."

### 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 Society of Motion Picture and Television Engineers awards Honorary Membership in the Society to Peter C. Goldmark in recognition of his lifelong pioneering stimulus and innovations in video recording and in the application of television technology to the benefit of many aspects of communications research.*

**Dr. Peter C. Goldmark**, President and Director of Research, Goldmark Communications Corporation, began his pro-

fessional career with Pye Radio, England, joined CBS as Chief Engineer, Television Department in 1936, and from 1954 to 1971 was President and Director of Research, CBS Laboratories Division.

In addition to directing the research activities of CBS, Dr. Goldmark headed the development of field sequential color television and also spearheaded the development of the long-playing record. He has been active in advancing technology for extremely high resolution recording and readout of photographic imagery and was responsible for the successful development of the readout and ground recording system used in the U.S. lunar orbiter program.

Among many other awards for his contributions to communications research Dr. Goldmark received the David Sarnoff Gold Medal in 1969, the SMPTE Progress Medal in 1970, and the *SMPTE Journal* Award in 1971. He is a member of the National Academy of Sciences, the National Academy of Engineering, the Connecticut Academy of Science and Engineering, and of numerous learned societies.

### Honor Roll

*The Society of Motion Picture and Television Engineers is placing the name of William T. Wintringham on the Honor Roll of the Society in grateful recognition of his distinguished scientific and social contributions to communications technology and of his many years of devoted service to the engineering progress of the Society.*

**William Tylee Wintringham** was born in Brooklyn on 18 January 1904 and died 19 November 1976 at Chatham, N.J.

Bill Wintringham's professional contributions to the telecommunication industry, recognized in 22 U.S. and foreign patents, were related to many landmarks of electronic technology in the first half of the 20th century:

- Long-wave transatlantic radio and telephone systems.
  - UHF and VHF radio relay systems.
  - Radio and radar aids to navigation and military communication.
  - Studies of comparative television systems as head of Bell Television Department.
  - Exploration of human response to various visual stimuli as chief of Visual Systems Research for Bell Systems.
- The advances of technological innova-



Mrs. W. T. Wintringham receiving a certificate for her late husband.

tion serve their ultimate purpose in alleviating social problems. Mass production offers one means of distributing these benefits but this goal cannot be achieved, on an international scale, without due process of standardization. Bill Wintringham recognized this responsibility and donated his professional skills and personal time generously to these endeavors. His contributions to our industry in this demanding activity were outstanding in terms of intellectual perception and dedication to the spirit of seeking consensus for the common good. Up to the time of his death he was serving on the Executive Standards Board of the National Standards Institute, the Inter-Society Color Council, I.S.O. Technical Committee 36, and the Joint Committee for Inter-Society Coördination and many others.

Recognition of Bill Wintringham's personal and professional achievements was evident in the many honors and awards presented to him. A partial list includes: the RETMA certificate of contributions to color television standards in 1954, the IRE-EIA Radio Plaque in 1961, the Certificate of Distinguished Service to the Institute of Electrical and Electronics Engineers Standards in 1971, the SMPTE Special Commendation Award in 1974 and the Progress Medal of the SMPTE in 1975.



Carlton Winckler, Sr. accepting the Society's Progress Medal.

Bill Wintringham served in many capacities with the SMPTE and was Engineering Vice-President for 10 years. In this office, as in his other endeavours, he displayed a unique gift for assimilating the complexities of many disciplines and extracting from these the core problems of the issues.

It is the unanimous conclusion of this Committee that William Tylee Wintringham's substantial scientific and social contributions to the Communications Industry fully qualify his name to be included in the Society's Honor Roll.

#### 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 E. Carlton Winckler, Sr. in recognition of his outstanding career since the early 1930s as a lighting consultant to both theatrical and television productions. His distinguished contributions toward the improvement of color television programming through the use of proper lighting techniques have contributed significantly to the quality of the TV image received in the home.*

Carlton Winckler, Sr., was associated with the production and lighting of numerous New York theatrical productions from about 1930 to 1945. He also worked



John D. Lowry accepting the Agfa-Gevaert Gold Medal Award.

with Billy Rose on the Aquacade at the New York World's Fair. His list of theatrical credits include many of the top Broadway hits of that time. In 1945 Mr. Winckler started with the first television producers, working out production and lighting techniques for the new television medium.

In the 1960s, with CBS, Winckler was assigned to devise, improve and standardize production and lighting techniques to be used in color television when it was introduced. During this time, he conducted many clinics, workshops and meetings throughout the country in an attempt to help television producers make the transition to color and produce a high-quality product.

In the 1970s, Mr. Winckler has been with Imero Fiorentino and Associates again working with commercial, industrial and television producers in areas of staging, lighting and production to improve the general quality level of the medium.

Winckler's many years of experience and his own professional competence are impressive. However, his continuous giving of his own extensive experience to many groups throughout the country right up until the present moment certainly has had a profound effect on improving the quality of programming and reception of the television image.

#### Agfa-Gevaert Gold Medal Award

It is the purpose of this award to do



James Card accepting the Eastman Kodak Gold Medal Award.



Wm. H. Offenhauser, Jr. accepting the John Grierson International Gold Medal Award.



Margaret Beach Goodhue accepting the Journal Award.



Koichi Sadashige accepting the Journal Award Honorable Mention.

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 John D. Lowry. As engineer, lecturer and author he has successfully devoted his efforts to the improvement of tape-to-film transfer and television operations and the continuing education of those engaged in both media. By his perseverance and knowledge he has greatly contributed to the progress of film/video interface.*

**John D. Lowry** is currently Vice President and Director of Development of Digital Video Systems in Toronto. During the last twenty-five years he has worked in several areas of motion-picture and television industries, beginning his career in television production at the Canadian Broadcasting Corporation and working with both film and videotape.

He has delivered numerous papers to audiences in the United States, Canada and Europe. The subject material has included electronic editing for videotape, helicopter photography and remote-control cameras, videotape-to-film conversion, television signal processing and fundamentals of digital television for the film market.

During 1971 he worked on the development of the Image Transform system of signal processing and videotape-to-film conversion. This system is a combination of unique approaches of decoding video random noise reduction, frequency response improvement, risetime improvement, a conversion of real time to slow time RGB presentation and electron-beam recording which includes velocity modulation of the electron beam for further image enhancement. Mr. Lowry's pioneer work with this system has resulted in the Image Transform system known throughout the



R. T. Ryan accepting a Special Commendation for the Historical and Archival Papers Committee.

world as being a significant improvement in the interface between videotape and motion-picture film.

For the past two and one-half years he has been working on the development of various digital television processing and special effects hardware and has pioneered the use of four times subcarrier sampling of composite color video.

#### 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 James Card in recognition of his work in film conservation, in building a peerless motion-picture collection for teaching and research purposes and in promoting and disseminating a knowledge and love of motion pictures throughout the United States.*

**James Card**, Director of the Film Department of the International Museum of Photography at George Eastman House for more than a quarter of a century, Associate Professor of Fine Arts at the University of Rochester and Visiting Professor at Syracuse University, studied drama and theater at Western Reserve, Stanford, and Heidelberg Universities. In the early 1930s, he organized pioneer film societies, including the first film study group at the Cleveland Museum of Art. He was a freelance producer of documentary films before the war and writer/director in Kodak's Informational Films Division after it.

From the time he joined George Eastman House Museum in 1948 as motion-picture curator, his work in film conservation was instrumental in starting a national program of film preservation to rescue older films that were in danger of decomposition. For more than 25 years he travelled and lectured widely throughout the world and authored numerous authoritative articles on all aspects of the film.

Lecturer, teacher, scholar, writer, ar-



Roland G. L. Verbrugge accepting the Herbert T. Kalmus Memorial Award.

chivist, and administrator, he has earned the respect of specialists for his professional contributions, and the gratitude of citizens, both young and old, for the knowledge and appreciation of the cinema which he has provided them.

#### John Grierson International Gold Medal 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 is given to William H. Offenhauser, Jr., a pioneer in the development of many standards for 16mm sound films. Author of the book 16mm Sound Motion Pictures, a manual still in use today, he was also instrumental in the development of the JAN projector. His successful efforts over many years in the development of the improved techniques and equipment have greatly enhanced the use of 16mm sound documentary films throughout the world.*

**William H. Offenhauser, Jr.**, has devoted a lifetime of energy to improving motion-picture and sound performance, beginning with his development of the so-called MGM squeeze track for RCA Photophone in 1929, for which eleven patents were issued. His long association with SMPTE's standardizing efforts began with his contributions to the dimensional standardization of 16mm sound films.

War-time service with the Office of Scientific Research and Development and the War Committee on Photography and Cinematography resulted in specifications for the Military Model Projector and films designed to test it, and in the first draft of the picture and sound synchronization mark standard, winning him the American War Standards Certificate of the ASA. During the thirties Mr. Offenhauser did notable pioneering work in the area of binaural sound recording, the results of which were published in an important paper in the *Journal of the SMPE* in May 1939.

His book *16mm Sound Motion Pictures*,

first published in 1949 and reprinted since, has become the definitive manual on the subject. In the ensuing years Mr. Offenhausser has been engaged in a number of consulting projects for CBS, Cornell University Medical College and the U.S. Public Health Service, has been issued some seventy patents, and has published many articles in scientific journals. He has been a Fellow of the SMPTE since 1946.

### 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 1977 is presented to Margaret Beach Goodhue for her paper entitled "Microbiological Growths in Motion Picture Processing" published in the March 1976 SMPTE Journal.*

### Journal Award—Honorable Mention

Honorable Mention was awarded to Koichi Sadashige for his paper entitled "Overview of Time-Base Correction Techniques and Their Applications" published in the October 1976 *SMPTE Journal*.

### Special Commendation

Special Commendation goes to The Historical and Archival Papers Committee and the SMPTE Editorial Staff commending their collective efforts in publishing the 60th Anniversary Edition (the July 1976 issue of the *SMPTE Journal*).

Authors who contributed to this issue are as follows: Gordon Chambers, Richard S. O'Brien, Robert Monroe, Charles E. Anderson, Steven S. Runyon, Edmund Di Giulio, Charles R. Fordyce, Sidney P. Solow, John Frayne, Arthur C. Blaney, George Groves, Harry Olson, Loren L. Ryder, Hans Chr. Wohlrab, Daniel L. Aron, Don V. Kloepfel, Gerald G. Graham, William G. Hyzer, Leonard Coleman, and Herbert E. Farmer.

### The Herbert T. Kalmus Memorial 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.

*Roland G. L. Verbrugge has been chosen to receive the Herbert T. Kalmus Memorial Award for his continuing substantial contributions to the development of color films which are useful in making color motion pictures for theater and television use.*

**Roland G. L. Verbrugge** is a civil engineer from the University of Louvain, Belgium. He graduated in electrical engineering and specialized in mechanical engineering. He is a lic. ds. in financial and commercial sciences and holds a license as



A. Earl Quinn accepting the Photo-Sonics Achievement Award.

architect. He followed a two-year course in nuclear physics and several postgraduate courses in numerical calculus and advanced mathematics.

He was a temporary flying officer in the Belgian Air Force and volunteered two terms for inter-allied duties.

He joined Gevaert in 1957, where he took up emulsion technology, processing and sensitometry. He was head of R&D's Department of Reprography Research and Graphic Arts. At the merger with Agfa in 1964 he was head of the Department of Color Materials and Microfilm in R&D's Photographic Research. He became head of R&D's System Study Department of Colour Photography in 1968. He is now R&D Manager in charge of Motion-Picture Film, Microfilm, and Computer Film.

As a member of the Society of Photographic Scientists and Engineers and a Fellow of the SMPTE, he was active in SMPTE's Color Committee and Color Technology Commission. He is also a member of various societies dealing with engineering.

In 1974 he received the Denis Wratten Memorial Award (BKSTS) for his paper "Some Considerations on the Colour Balance of Film for Colour Telecine Transmission."

### Photo-Sonics Achievement 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 en-



Albert P. Green accepting the Samuel L. Warner Memorial Award.



Renville H. McMann receiving the David Sarnoff Gold Medal Award.

gineering phases of instrumentation and/or high-speed photography.

*The Photo-Sonics Achievement Award is presented to A. Earl Quinn in recognition and appreciation of his outstanding contributions to the advancement and widespread acceptance of high-speed photography as an engineering tool.*

**A. Earl Quinn** joined the Eastman Kodak Company in 1936 where his work has been principally directed toward high-speed camera studies of rapid transients in the research and engineering fields. During World War II he worked for the Office of Scientific Research and Development and the Massachusetts Institute of Technology making high-speed instrumentation studies for the Weapons Evaluation Program.

Mr. Quinn has been a forerunner in the advancement of high-speed cinematography for over thirty years. Best known for his work in the development and refinement of methods for simultaneously recording cine and oscillo images on the same film in rotating-prism cameras, a technique now referred to as high-speed cine-oscillography, Earl Quinn was among the first in his discipline to recognize the need for standards in high-speed photographic equipment and materials. His method of measuring picture steadiness has stood the test of time as the accepted standard for evaluating this quality in high-speed motion-picture cameras.

Mr. Quinn was instrumental in organizing the first efforts of SMPTE in the area of high-speed photography and assisted in the formation of the engineering



Charles A. Hacker accepting a Special Commendation Award.



**Bernard D. Loughlin** accepting a Special Commendation Award.

committee for that discipline in the 1940s. As chairman of the Unsteadiness Subcommittee he conducted the work that led to the publication by the Society of Recommended Practice 17 "A Photographic Recording Technique for Measuring High-Speed Camera Image Unsteadiness." A Fellow of SMPTE since 1968, Mr. Quinn has served three terms as Vice-President for Photoinstrumentation Affairs.

#### **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 theater television.

*The David Sarnoff Gold Medal Award is presented to Renville H. McMann for his pioneering work in television signal digital noise reduction, image enhancement, color masking and encoded signal color correction; for his leadership in the development of the first high-quality portable color camera and many other contributions to television technology.*



**Lester Shorr** accepting a Special Commendation Award.



**Arthur J. Miller** accepting a Special Commendation Award.

**Renville H. McMann, Jr.**, President, Thomson-CSF Laboratories, is the holder of over thirty patents including the Image Enhancer, now used throughout the broadcasting industry — and the magnetic scan conversion technique used by NASA to convert color television pictures transmitted from the moon for standard broadcasting. He was a major participant in such projects as the "starlight" television camera for transmitting color pictures from inside the human body for medical diagnosis and education, and developer of the Color Corrector used by television broadcasters to provide better color television picture reproduction, and the original CBS Minicam Mark VI television camera system, the forerunner to today's Microcam<sup>®</sup>. The Minicam system in 1969 won the first Emmy citation of the National Academy of Television Arts and Sciences for engineering development. The Color Corrector also earned an Emmy in 1971.

Presently, Mr. McMann has been actively involved with development of the Digital Noise Reducer which dramatically improves the quality of color television pictures that have been degraded by noise. A 12 to 15 dB signal-to-noise ratio improvement can be achieved with the Digital Noise Reducer.

He has authored numerous papers published in professional journals here and abroad. He is a past president of the Radio Club of America, a Fellow of the Yale Engineering Society and of the Society of Motion Picture and Television Engineers.



**C. B. B. Wood** accepting a Special Commendation Award.



**Bengt O. Orhall** accepting a Special Commendation Award.

He is a member of the International Radio and Television Society, the Royal Television Society, the Society of Broadcast Engineers, Society for Information Display, Soaring Society of America, and the Institute of Social Services.

#### **The 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 1977 is presented to Albert P. Green for his leadership in the design and implementation of the Groves/Rice Sound Complex at The Burbank Studios, which incorporated the latest technological advancements relating to motion-picture sound recording and re-recording; for his significant engineering contributions regarding reversible interlock motor drive systems for re-recording; and for his continuing efforts to improve recording standards for the motion-picture industry while serving as an adviser to the Research Council of the Academy of Motion Picture Arts and Sciences.*

**Albert P. Green** graduated from the California Institute of Technology with Honors. After postgraduate study and research in electronics and electron optics at Stanford University where he also was an instructor in electrical engineering he became Head of the Airborne Communications Section of the Naval Research Laboratory in Washington, D.C. For his accomplishments in airborne electronics, he received the Meritorious Civilian Service Award for Outstanding Service to the Navy.

He began his career in the motion-picture industry when he joined Warner Brothers Pictures as a research engineer in 1947. Early achievements included work in the development of the first large screen theater television projectors and quality controls for optical sound recorders. In 1958, he was appointed Chief Engineer of the Sound Department at Warner Broth-



**Mathias J. Herman** accepting a Citation for Outstanding Service to the Society.



**Julian D. Hopkinson** accepting a Citation for Outstanding Service to the Society.



**Burton Stone** accepting a Citation for Outstanding Service to the Society.

ers. He proposed and developed the first practical system for reversible interlock re-recording and installed it in the four re-recording theaters at Warner Brothers. This system has been duplicated and is in use around the world.

After being named Post-Production Sound Director for The Burbank Studios in 1972, he has been responsible for the design and implementation of the facilities in the new Groves/Rice Sound Complex at TBS. This installation includes total capabilities and incorporates the latest technological advancements relating to motion-picture sound recording. Work on this project resulted in a Class II award from the Academy of Motion Picture Arts and Sciences.

Mr. Green has been an active member of the Academy of Motion Picture Arts and Sciences Scientific and Technical Awards committee and has served as an advisor to the Research Center of the AMPAS. He is a member of the SMPTE Sound Committee, of Tau Beta Pi, and holds several patents.

### 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.

**Charles A. Hacker**, for his contributions to motion-picture technology. As Executive Vice President and Chief of Operations of Radio City Music Hall held in high esteem by entire motion-picture industry for which he has been instrumental in developing thoughtful support and cooperation.

**Bernard D. Loughlin**, for his contributions to television technology. As head of all research at Hazeltine Corp. responsible for many important developments in color and monochrome television.

**Arthur J. Miller**, for his contributions to motion-picture technology. During his 40-year career with Pathé Laboratories, CFI, Trucolor, American Optical, Todd-AO and DuArt Laboratories introduced many important innovations to the technology of motion-picture film processing.

**Bengt O. Orhall**, for his contributions to motion-picture technology. As Managing Director of AB Film-Teknik, Stockholm, responsible for designing and installing film and tape facilities; author of "The Treatment of TV Film in Theory and Practice."

**Dennis A. Robertson**, for his contributions to motion-picture technology. His achievements as a technical expert for professional equipment marketed by Bell & Howell Ltd. have won him respect in all parts of the world.

**Lester Shorr**, for his contributions to motion-picture technology. As Emmy Award winner and past president of A.S.C., he has been a distinguished director of photography and active in the motion-picture industry for more than 50 years.

**Charles B. B. Wood**, for his contributions to the television industry. Active for many years in BBC Research and Engineering Information Departments, he has made significant improvements to the technology of televising of color film.

### 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.

**Edward J. Blasko**, MP, AVMD, Eastman Kodak Co., for his many contributions to the work of the Hollywood, Pacific-Northwest, Rochester and Chicago Sections, and particularly for his assistance with the Rochester-Toronto Mini-Conference and seminars in Chicago and the Pacific Northwest.

**Mathias J. Herman**, Geo. W. Colburn Laboratory, for his many services to the Chicago Section as Manager, Secretary, Treasurer and Chairman, and his contributions to arrangements for the 102nd, 107th and 113th National Conferences in Chicago.

**Julian D. Hopkinson**, Agfa-Gevaert Co., for outstanding services as Topic session chairman for the 112th, 115th, 117th and 119th National Conferences, as member of the Board of Editors, and in the perfor-

mance of several important committee assignments.

**Andrew Kuffluk**, Ryerson Institute of Technology, for outstanding service to the Toronto Section, especially in providing facilities and equipment for the meetings of the Section and in maintaining high quality in this operation.

**Burton Stone**, Precision Film Laboratories, for long service to the New York Section and numerous contributions to the national conferences held in New York.

### New Fellows of the Society

**Peter Boyko**, President, Capital Film Laboratories, has had twenty-five years of experience in all phases of reconnaissance, mapping, and motion-picture production and processing for the U.S. Air Force in the U.S. and overseas, having responsibility for all commercial production of USAF motion pictures, or approximately 200 productions a year, and directing an organization comprising production, procurement, depository and laboratory divisions. Mr. Boyko joined Capital Film Laboratories in 1966 and became Executive Vice-President in 1969. In 1971 he was appointed President of the company which is located in Washington, D.C., New York and Miami.

**Jack Bush**, Director of Film, ABC News, began his career working as a film editor for March of Time wartime productions, and was supervising film editor for the television series "Crusade in Europe" which received a DuPont Peabody Award. From 1953 he was at CBS as producer of a daily syndicated news service and in 1954 became Manager of News Film for CBS News, introducing several innovations including the use of striped magnetic sound on 16mm black-and-white negative, a small professional 16mm negative processing machine, and the first attempt to build a miniaturized 16mm news camera. With ABC since 1963 Mr. Bush has continued his encouragement of engineers and manufacturers to produce the light-weight camera, processing equipment and communications systems used to advantage at political conventions and similar on-site news coverage.



Peter Boyko



Jack Bush



Ettore de Cinque



Edward Graham, Jr.



Richard E. Hill



Julian D. Hopkinson



John Jurgens



Victor G. Komar



Robert T. Kreiman



John D. Lowry



Calvin S. McCamy



Bengt O. Orhall



Herbert L. Rees



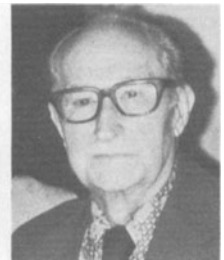
Burton Stone



Vladimir L. Trusko



Marcel N. Vrancken



Joseph B. Walker

**Dr. Ettore deCinque**, Technical Director, Tecnospes, Rome, designed and installed the first demand-drive processor with spring-centered rollers in Italy. He designed, built and installed a new bidirectional additive printer, a new automatic additive system and optical printers with improved wet-gate system. Dr. DeCinque has a doctorate in engineering from Rome University and is a Vice-President of ATIC (the Italian motion-picture technical society). He is also SMPTE Membership Chairman for Italy.

**Edward Graham, Jr.**, Chief Engineer WGTU, University of Georgia was first with AM radio in Nashville, Tennessee before moving to television. Between 1956 and 1977 he established, designed, built, equipped and organized the operation of WGTU as prime station in Georgia Educational Television Network and has been University of Georgia consultant for design of CATV systems and remote operation for many college and institutional installations. Mr. Graham is a member of the U.S. Group, CCIR; the Public Broadcasting Service Engineering Committee; the Southern Educational Communications Association Engineering Council; and the IEEE Group on Broadcasting. He has presented two papers before the CCIR on "Methods of Synchronizing Various Recording and Reproducing Systems Currently in Use in the United States," and

"Automatic Program Control of Television Stations."

**Richard E. Hill**, Director, Advanced Development, Consolidated Film Industries has attained outstanding rank as an engineer in the videotape field. Developments for which he has been responsible include a videotape time-code editing system and the design and construction of a computer-controlled one-inch editing system. He is the author of papers on CMX-600 editing and on the editing of film using videotape editing systems. In 1976 Mr. Hill devised a computer program to generate an edit decision list and punch tape from IBM cards. He was the recipient of a 1971 Academy of Television Arts and Sciences Citation for the development of the time code and equipment to facilitate the editing of videotape.

**Julian D. Hopkinson**, Technical Manager, Pacific Region, Motion Picture Products, Agfa-Gevaert, Inc., after graduating from Birmingham College of Technology (England) was active in industrial photography in Iran, England and California before becoming Quality Assurance Manager for Military Products at Technicolor Corp. in 1965, where he subsequently became Research Project Engineer. Since joining Agfa-Gevaert in 1971 he has provided technical support for the

company's motion-picture film marketing operations. Mr. Hopkinson has taken a leading role in the activities of the SPSE in southern California, is an Associate Member of ASC and a member of BKSTS and the Royal Photographic Society.

**John Jurgens**, Executive Vice-President and Vice-President for Engineering, Cinema Products Corp., has performed distinguished engineering service for the Mitchell Camera Corp. and Photo-Sonics Corp. as Chief Engineer for both companies, and in his present work. His design accomplishments include the Mitchell S35R camera, the Photo-Sonics I-PD 16mm camera, the Cinema Products CP-16, CP-16R and XR-35 cameras, and, most recently, the Cinema Products GSMO mini-camera. He also led the team that designed and developed the Steadicam. In 1971 the Academy of Motion Picture Arts and Sciences gave two Class III technical awards for developments produced under Mr. Jurgens direction as Vice-President of Engineering.

**Victor G. Komar**, Acting Director, Cine & Photo Research Institute (NIKFI), Moscow, graduated from the Electro-technical Faculty of Moscow Industrial Institute in 1937. In the course of his distinguished career at NIKFI, Dr. Komar has been the originator of many technical

innovations and has published several papers in the *SMPTE Journal*, particularly on his work on variscope cinematography, and, more recently, in *Tekhnika Kino i Televidenya* on holographic cinematography. Dr. Komar has received many distinctions from his government, is an Honorary Member of the BKSTS, and in 1972 received an SMPTE Special Commendation for his outstanding contributions to motion-picture technology.

**Robert T. Kreiman**, President, DeLuxe General Inc., since 1949 has supervised product planning and the development of motion-picture and television product lines for Bell & Howell, Robertson Photomechanix, Sylvania and Technicolor. At Technicolor he supervised the development of the first cartridge loading super-8 optical sound projector. In addition to his position as Chief Executive of DeLuxe General he is Chairman of the Board of Pace International Corporation, Chairman of the Board of Keith Cole Photography and President of Fox Movietone. He is a member of NAVA, a Director of ACVL, a member of the Academy of Motion Picture Arts and Sciences and of the Academy of Television Arts and Sciences, and an associate member of the American Society of Cinematographers.

**John D. Lowry**, Vice-President and Director of Development, Digital Video Systems, has attained outstanding rank among engineers in the interface between the motion-picture and television industries. Among his accomplishments have been the Image Transform system, the development of an image enhancement system used by NASA to improve pictures transmitted from moon and space lab projects, and the development of a stable helicopter mount widely used for commercials. Mr. Lowry has presented a number of technical papers on stable camera mounting and on the Image Transform system at SMPTE Conferences, as well as a paper on fundamentals of digital television for the filmmaker at the 1976 Midwest Seminar for Film and Videotape.

**Calvin S. McCamy**, Vice-President, Science and Technology, Macbeth Div., Kollmorgen Corp., is a leader in national and international standardization of photography and the graphic arts: Chairman of the Technical Advisory Group to the U.S. Delegation to ISO/TC-42, Chairman of the Photographic Standards Management Board of the American National Standards Institute, the Subcommittee on Densitometry and the Working Group on

Print Quality for Optical Character Recognition. He is a member of the U.S. National Committee of the CIE and of the SMPTE Subcommittee on Television Color Cameras, Chairman of the Inter-Society Color Council Committee on Photography and Printing, and Vice-Chairman of the Color Technical Group of the Optical Society of America. Mr. McCamy has published over seventy papers on photography, color, printing and other aspects of chemistry and physics.

**Bengt O. Orhall**, Managing Director, AB Film-Teknik, Sweden, planned and managed the installation of color processing and printing facilities for the Swedish Broadcasting Corp. between 1959 and 1975 and has established regional processing plants. At AB Film-Teknik he has been responsible for planning and constructing a new video department making use of Teledyne CTR 3 telerecording equipment. He is the author of a book, *The Treatment of TV Film in Theory and Practice*, and has presented a number of technical papers before the SMPTE, the BKSTS and the Swedish and Norwegian Film Institutes. Mr. Orhall is a member of the BKSTS and of the Society of Swedish Film and Television Engineers.

**Herbert L. Rees**, Assistant Vice-President and Director of Corporate Technical Affairs, Eastman Kodak Co., joined the company in 1947 as a chemist in the color control division. He transferred to the film emulsion division in 1962, became assistant superintendent in 1967, and superintendent in 1970. In 1973 he became Director of Photographic Program Development, U.S. and Canadian Photographic Division, and was appointed to his present position in 1975 where he directs and oversees the company's overall technological strategy. Mr. Rees has received three patents for preventing formation of Prussian blue stain inprints, for rejuvenation of photographic developers and for processing multilayer color film. He has co-authored several technical papers including two published in the *SMPTE Journal*.

**Burton Stone**, President, Precision Film Laboratories, was previously with Consolidated Film Industries and Movielab. He designed, built and operated Allservice Film Laboratories in New York and subsequently was a Vice-President of Technicolor before assuming his present position in 1971. At Precision he participated in the development of an improved silver recovery system and in the development of an improved electrolytic bleach rejuvenation

system. Mr. Stone has lectured on motion-picture laboratory procedures in many East Coast and Southern colleges. He is an associate member of the American Society of Cinematographers and a Management Trustee of the Motion Picture Laboratory Technicians Welfare and Pensions Funds.

**Vladimir L. Trusko**, Director of the Technical Department, USSR State Cinema Committee (Goskino USSR), graduated from Leningrad Motion Picture Engineering Institute in 1951, when he joined Mosfilm Studios as head of the technical department. From 1957 to 1973 Mr. Trusko was Chief Engineer of the Dovjenko Studios in Kiev, where he was responsible for the progress that brought the studios up to the current state of the art. In his present position at Goskino he has responsibility for all technical matters related to the production of motion pictures in all parts of the USSR.

**Marcel N. Vrancken**, International Product Manager, Motion Picture and Television Products, Agfa-Gevaert N.V., has been associated with the company for over 20 years. Originally with the research laboratories, where his major efforts related to the physical properties of gelatin, he spent several years in the product development department, accumulating sixty patents for his technical contributions to Agfa-Gevaert's equipment lines. Since 1970 he has had responsibility for the company's worldwide marketing activities and technical services. Dr. Vrancken earned his doctorate in science at the University of Louvain and undertook postgraduate project work in macromolecular chemistry at the University of Wisconsin.

**Joseph B. Walker** for 30 years was a Director of Photography for Columbia Pictures, photographing many notable feature productions. During his long association with the motion-picture industry he made many important technical contributions including the first zoom lens patents, a camera flashing attachment, comparator exposure meter, panoramic television camera, compound image forming reflecting mirror for aerial image effects, and several variable diffusion devices. Between 1948 and 1958 he designed and manufactured the Electra-Zoom Lens for RCA. Mr. Walker is a member of the DeForest Pioneers and the American Society of Cinematographers, of which he served as Vice-President, and in 1976 was inducted into the Motion Picture Hall of Fame in Hollywood.