

## Conference Activities

Attendance of over 10,000 people, the largest technical conference ever presented by the SMPTE, attested to the growing vigor and interest in both the motion picture and television technologies. The Century Plaza Hotel served as the headquarters for most of the social activities, as well as the Equipment Exhibit. The vitality of the industry was reinforced with 400 exhibitors and manufacturers demonstrating their products at the Equipment Exhibit.

The technical sessions were held in Theaters I and II of the Century Plaza, within two minutes' walking distance of the hotel. The technical program focused on techniques and technology for the 80's. During the five days of the technical program, a record 150 papers were presented.

The first "convention" was held in 1916. They were later designated as conferences and were held semiannually until the 117th Technical Conference in 1975. Thereafter, conferences were held annually.

Together with his associates, Julian Hopkinson, Program Chairman, worked diligently to organize the 123rd Technical Conference. This is the second occasion that Hopkinson has accepted this extremely demanding responsibility. With his Co-chairmen Chester Luton for Motion Pictures, Carlos Kennedy for Television and Video, and John Mosely for Sound, they structured an informative, viable, and well-balanced program.

Easing into the conference this year, Chairman Hopkinson scheduled the Executive Vice-President and the Affairs Vice-Presidents as the opening speakers. The idea of progress in each of the various disciplines was discussed.

A preview of the upcoming Progress Report was given by Lincoln L. Endelman, Vice-President for Photonic Affairs; Herbert E. Farmer, Vice-President for Educational Affairs; Frederick M. Remley, Vice-President for Television Affairs; and Roderick T. Ryan, Vice-President for Motion Picture Affairs.

Roland J. Zavada, Engineering Vice-President, commented on the progress in and the need for standardization, both nationally and internationally. He briefly reported on the engineering technical committees which fall under his supervision. It should be noted that over 28 engineering committees met in working sessions to discuss or produce standards in both film and television.

Because of the success of the SMPTE conferences, President Charles Anderson announced that the next Los Angeles Conference will be held at the Convention Center. This shift to larger quarters is due to the rapid innovations in the film and television industry, as well as the need for additional space for the Equipment Exhibition, which shows the present and future of the industry.

The 124th SMPTE conference will be held in New York City in November 1982, and the SMPTE looks forward to an even more successful event.

### Opening Session: Techniques and Technology for the Eighties. In the opening session "the idea of progress" was emphasized by the Affairs Vice-Presidents of the Society.



"You've only to page through your program to see the innovations reported, and, indeed, whole new fields of technical activity, . . . sessions which have never been at our conference before. Again, representing the growth of this Society in all fields of television and motion picture technology. . ." (From the opening address of Joseph A. Flaherty, Executive Vice-President.)



"As we look to the future, one vital thing we must do—we must *refrain* from quenching the spark of creativity and initiative which resolves seemingly impossible problems and conditions. The pressures and changes abroad today require adaptability to new concepts; . . . correlating advances with requirements into an evolving program." (From the opening address of Roland J. Zavada, Engineering Vice-President.)



"Education is more than learning skills; it is learning to think. It is learning how we arrived where we are, what is already known, and how to apply this information toward a desired end. The wheel was invented a long time ago, but it is constantly being applied to different tasks—and it's always being improved upon." (From the opening address of Herbert E. Farmer, Vice-President for Educational Affairs.)



"Photonics has been defined as that field of science comprising systems in which photons are the principal carriers of information. With the use of lasers, video systems, computer reconstruction of images, and space telemetered information, image reproduction has changed dramatically from the original camera and silver-halide film combinations." (From the opening address of Lincoln L. Endelman, Vice-President for Photonic Affairs.)



"However, you may have noted that I also have attempted to indicate the significant involvement by the SMPTE in the standardization work leading to industry acceptance of these developments. Whenever standardization of new techniques is judged to be practical and desirable, the SMPTE is ready and willing to undertake standardizing efforts." (From the opening address of Frederick M. Remley, Vice-President for Television Affairs.)



"I would like to break from the traditional and speak of costs . . . not the costs of individual equipment or services but the rather considerable capital expenditure in the expansion in Hollywood during the last 2½ years. In 1981, this expansion program has continued. I believe these large investments indicate a very healthy future for the motion picture industry." (From the opening address of Roderick T. Ryan, Vice-President for Motion-Picture Affairs.)

### Conference Committee

#### Conference Vice-President

Charles A. Ahto, *Tape-Film Industries*

#### Program Chairman

Julian D. Hopkinson, *Agfa Gevaert N.V.*

#### Program Co-Chairmen

Motion Picture: Chester D. Luton, *MGM Labs, Inc.*

Television: M. Carlos Kennedy, *Ampex Corp.*

Sound: John Mosely, *Consultant*

#### Conference Chairman

Howard T. LaZare, *Consolidated Film Industries*

#### Hotel Arrangements

Burton Stone, *Deluxe General Laboratories*

#### Spouses' Program

Bea Hopkinson

#### Banquet and Entertainment

Harry Teitelbaum, *Hollywood Film Co.*

#### Luncheons

Ted Fogelman, *Rank Film Laboratories*

#### Membership

Charles Kircher, *Foto-Kem Industries*

#### Hospitality and Information

Esther Kessler, *American Broadcasting Co.*

#### Security

Irwin Freedman, *Agfa-Gevaert*

Vince Carabello, *P.R.C. of America*

#### Opening Films

Phil Singer, *Hollywood Film Co.*

Ronald Little, *Consolidated Film Industries*

#### Display

Wally Vance, *MGM Laboratories*

#### AV and Projection

Glenn Berggren, *ORC*

Don Kloepfel, *Consultant*

George Benkowski, *CBS*

#### PA and Recording

Frank Pontius, *Westrex*

Carroll Adams, III, *Carroll Adams Enterprises*

#### Registration

Fred Godfrey, *Eastman Kodak Co.*

#### Transportation

Scott Robertson, *Eastman Kodak Co.*

Jack Spring, *Eastman Kodak Co.*

#### Assistant Auditor

Gus Dato, *American Broadcasting Co.*

#### Topic Chairmen

Film Technology: Gary L. Borton, *Eastman Kodak Co.*

Laboratory Practices: William C. Ogletree, *Carter Equipment Co.*

Microelectronics for Motion Pictures: Michale V. Chewey, *Lab*

*Methods Corp.*

Computer Graphics: Larry Evans, *Ampex Corporation*

Digital Signal Processing: Charles P. Ginsburg, *Ampex*

*Corporation*

Digital Videotape Recorder Technology: Fred J. Hodge, *3M,*

*Mincorn Div.*

Environmental Practices: James J. Nowack, *MGM Labs, Inc.*

Film/Tape Interface: Robert J. Ringer, *Ringer Video Services*

Laboratory Quality Control: Leonard Sokolow, *Consolidated Film*  
*Industries*

#### Topic Chairmen At Large

European Papers: Dennis J. Kimbley, *Kodak Ltd.*

Historical Papers: Stephen C. Chamberlain, *Du Art Film Labs.*

# ACVL Meeting

Preceding the SMPTE's 123rd Technical Conference, the Association of Cinema and Video Laboratories held its annual fall business and technical meetings at the Century Plaza Hotel on Friday and Saturday, October 23 and 24. Papers on a number of new products, as well as innovative laboratory techniques, were presented, including improvements in the quality of film duplicating systems described by Pat Kurtz of the Eastman Kodak Company; new printing procedures for increasing productivity described by Roland Chase of Colour Film Services, England; a new "fluidized-bed method" of silver recovery described by Kish Sadhavni of Rank Precision Industries; and finally, the interactive videodisk and its growth potential in the film and video market.

Several panel discussions were held

and proved to be enlightening and stimulating. The panel in the morning session dealt with the various methods of film-to-tape transfer and with the characteristic advantages of each; the afternoon panel discussion dealt with the provocative subject of why and how a film laboratory becomes involved in videotape production and duplicating.

Enzo Martinelli and Ted Voightlander, who are West Coast directors of photography, were invited to address the gathering on the subject of communications between the lab and the cinematographer. The tenor of their comments reflected the spirit of the day-long discussions which were aimed at achieving a better understanding between the lab and its clientele, the producer and the distributor of film and video programs.

## Events Sponsored by SMPTE Sustaining Members

Spouses Program Activities

*US JVC Corp.*

Coffee Club

*Fuji Photo Film, USA, Inc.*

Sunday Evening Social for Registrants

*Eastman Kodak Co.*

Pages

*American Broadcasting Corp.*

Fellows Luncheon for Registered Fellows

*Magna-Tech Electronics Co., Inc.*

Refreshments for Fellows Luncheon

*Magnasync/ Moviola Corp.*

Pre-Banquet Cocktail Party

*Sony Corp. of America*

Banquet Music and Entertainment

*Hazeltine Corp.*

Wine at the Banquet

*Technicolor, Inc.*



The SMPTE Test Film Booth and Membership Information Desk provide numerous services and information to both members and visitors.

# Eastman Kodak Reception



**Traditionally, the Eastman Kodak Company invites the conference participants to a friendly reception at the Reflecting Pool. It is a time when old acquaintances meet again.**



**A western barbeque**



**The buffet**

A cocktail reception led off the social activities at the 123rd Technical Conference on Sunday evening, October 25. It was again hosted by Eastman Kodak Co. The Reflecting Pools at the Century Plaza Hotel provided a scenic location, a four-piece country band provided enjoyable live music,

and hot and cold hors d'oeuvres complemented the liquid refreshment. It was a lively opening to the Conference activities, allowing old friendships to be renewed and new acquaintanceships to be made. The pool boundaries and foot bridges were all traversed with great attention and equilibrium, and

there were no recorded cases of partygoers getting their feet wet. The reception officially ended at 8 P.M., but even the gradual disappearance of food, drink, and the band could not break up this pleasant gathering, which continued for about an hour longer.

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# Board of Governors Meeting

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**The Board of Governors in session.**



**Senior Officers of the Society (left to right): Robert M. Smith, Past President; Leonard F. Coleman, Financial Vice-President; Roland J. Zavada, Engineering Vice-President; and Joseph A. Flaherty, Executive Vice-President.**



**Senior Officers at the Board of Governors meeting: Herbert E. Farmer, Vice-President for Educational Affairs; Joseph A. Semmelmayr, Governor for the Western Region; Edward H. Reichard, Sections Vice-President; Harry Teitelbaum, Governor at Large.**

Board of Governors meeting. The Board of Governors is the top governing body of the SMPTE and within the framework of the Constitution and Bylaws decides policy which governs all Society activity. Normally the Board of Governors holds three regular meetings each year. One of these meetings is scheduled so as to agree with the time and place of the annual technical conference. Early Sunday morning the Board of Governors met to transact the business of the Society of Motion Picture and Television Engineers. Section Managers were also invited as observers.



From left to right: Arnold C. Schieman, Governor for the Canadian Region; Maurice L. French, Editorial Vice-President; Calvin M. Hotchkiss, Chairman of the Board of Editors; and Lincoln L. Endelman, Vice-President for Photonic Affairs.



Pictured during the session, from left to right, are: Thomas B. Keller, Governor of the Eastern Region; Charles A. Ahto, Conference Vice-President; Irving Rosenberg, Governor for the New York Region; and Edward Blasko, Central Region Governor.



Section chairmen act as observers to the Board of Governors Meeting: L. Merle Thomas, Vice-President elect, Television Affairs; Fred Nobbs, Past-Chairman, Philadelphia Section; Donald C. McCloskey, Hollywood; A. Siegler, New York; Don C. Norris, Dallas/Ft. Worth; Michael H. Bailey, Chicago; and Grant A. Dearmaley, Montreal/Ottawa/Quebec.



**Pablo Weinschenk-Tabernerro** was appointed as special photographer for the *SMPTE JOURNAL* at the 123rd Conference. He has been a member of the SMPTE for 42 years and is a Life Fellow of the Society. He is now the Test Film Quality Control Engineer, as well as a Technical Adviser to the *SMPTE JOURNAL*. He is eminently qualified for his assignment, having been a professional cinematographer and motion picture laboratory technical director.

# Board of Governors Awards Reception

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Prior to the Awards Luncheon, it is the custom of the Board of Governors to hold a special reception for all the recipients of honors and awards, as well as for the new Fellows of the Society and distinguished speakers and guests who will be seated on the dais at the Luncheon.

The Luncheon this year was held in the Empire Room of the Beverly Hilton Hotel. Charles E. Anderson introduced this year's officers, and Harold Eady, Secretary, announced the names of the elected officers and governors for next year.

## New Officers and Governors

The new SMPTE officers and governors, elected by the membership of

the SMPTE, will serve a two-year term beginning in January, 1982.

SMPTE's Engineering Vice President will be Roland J. Zavada of Eastman Kodak Co. The Financial Vice-President will be Leonard F. Coleman of Eastman Kodak Co. Harold J. Eady of Bonded Services was elected to the office of Sections Vice President. M. Carlos Kennedy, Ampex Corp., was appointed to serve the remainder of the term of Secretary that will be vacated by Harold J. Eady when he assumes the office of Sections Vice-President on January 1.

The new Affairs Vice-Presidents are as follows: Vice-President for Educational Affairs, Frederick M. Remley, University of Michigan; Vice-President for Motion Picture Affairs, Howard T. Lazare, Consolidated Film Industries;

Vice-President for Photonic Affairs, Robert D. Shoberg, Photonic System; Vice-President for Television Affairs, L. Merle Thomas.

The newly elected SMPTE Governors are: *Canadian Region*: Leonard Green, National Film Board of Canada; *Central Region*: Sherwin Becker, Allied Film Laboratory; *Eastern Region*: Richard K. Schafer, Eastman Kodak Co., and Thomas W. Hope, Hope Reports, Inc.; *Hollywood Region*: Edmund M. DiGiulio, Cinema Products Corp., and Edward J. Reichard, Consolidated Film Industries; *New York Region*: William G. Connolly, CBS Television Network; *Southern Region*: Blaine Baker, Motion Picture Labs., Inc.; and finally, *Western Region*: David K. Fibush, Ampex Corp.



The dais: senior officers, the recipients of awards, and the recipients of fellowships at the main table of the luncheon.



"A very warm welcome to the 123rd SMPTE Honors and Awards Luncheon," were the words of Harold J. Eady, SMPTE Secretary. "Many of you have traveled great distances to be here today, and your attendance demonstrates your interest and support of Society affairs, and this is very much appreciated."



SMPTE President Charles E. Anderson photographed during his opening address at the awards luncheon, which was held on Monday, October 26, 1981.



Allied organizations were represented on the dais, with Claude Leon, President of UNIATEC (International Union of Technical Cinematograph Associations); Irwin Young, President of ACVL (Association of Cinema and Video Laboratories); and Julian Hopkinson, Program Chairman and SMPTE Treasurer.



Fay Kanin, President of the Academy of Motion Picture Arts and Sciences, keynote speaker at the awards luncheon.



A remarkable array of former presidents of the SMPTE were present on the dais. On the left: Kenneth M. Mason (1975-76), Byron S. Roudabush (1973-74), G. Carleton Hunt (1967-68). On the right: Reed H. Ray (1963-64), John G. Frayne (1955-56).

### Honors and Awards — 1981

**Citation for Outstanding Service to the Society**

Arthur E. Florack, *Eastman Kodak Co.*  
Alvin J. Siegler, *CBS, Inc.*

**The Agfa-Gevaert Gold Medal**

Heinrich Zahn, *Robert Bosch GmbH Fernseh*

**Eastman Kodak Gold Medal Award**

Robert W. Wagner, *Ohio State University*

**John Grierson International Medal Award**

Peter Parks, *Oxford Scientific Films*

**The Journal Award**

Toyohiko Hatada, Haruo Sakata, and Hideo Kusaka, *Japan Broadcasting Corp.*

**The Journal Award—Honorable Mention**

Katsuya Yokoyama, Shozo Nakagawa, and Hironobu Katayama, *Japan Broadcasting Corp.*

**Herbert T. Kalmus Memorial Award**

Manfred G. Michelson, *Technicolor, Inc.*

**Photo-Sonics Achievement Award**

Dr. Gong Zutong, *Xian Institute of Optics and Precision Mechanics*

**David Sarnoff Gold Medal Award**

Takashi Fujio, *NHK Technical Research Laboratories*

**Samuel L. Warner Memorial Award**

John O. Aalberg, *retired (RKO Studios)*

**Progress Medal**

Daan Zwick, *Eastman Kodak Co.*

**Honorary Membership**

Kenneth M. Mason, *Eastman Kodak Co.*

Sidney P. Solow, *Consolidated Film Industries & University of Southern California*



**Maurice L. French, Editorial Vice-President, and Frederick M. Remley, Vice-President for Television Affairs.**



**Shown above are Daan Zwick, who is the recipient of the *Progress Medal*, and Sidney P. Solow.**

Honors and Awards Luncheon – Beverly Hilton Hotel. The Society of Motion Picture and Television Engineers presents a number of awards annually. These awards have been created over a period of years, and rules governing the selection of recipients have been prescribed in each case. The following pages are devoted to the luncheon, where scientists, educators, and craftsmen were honored for their devotion to the science and art of motion picture and television engineering.



**Award winners pose for a group photograph: (front row) Arthur E. Florack, Alvin J. Ziegler, Gong Zutong, Kenneth M. Mason, Sidney P. Solow; (back row) Heinrich Zahn, Robert W. Wagner, Daan Zwick, Manfred G. Michelson, and John O. Aalberg.**

## Honors and Awards Committees for 1981

### Honorary Membership

Robert M. Smith, *Chairman*  
William D. Hedden  
Barton Kreuzer  
Norwood L. Simmons  
John W. Servies

### Progress Medal Award

Joseph A. Flaherty, *Chairman*  
Lincoln L. Endelman  
Frederick M. Remley  
Roderick T. Ryan  
Roland J. Zavada

### Agfa-Gevaert

#### Gold Medal Award

Robert J. Ringer, *Chairman*  
Blaine Baker  
Peter Comandini  
LeRoy DeMarsh  
John D. Lowry

### Eastman Kodak

#### Gold Medal Award

Sherwin H. Becker, *Chairman*  
Stirlin Harris  
W. Lee Hunter  
Robert J. Klein  
K. Ken Miura

### John Grierson International

#### Gold Medal Award

Anthony D. Bruno, *Chairman*  
Gary L. Borton  
Calvin M. Hotchkiss  
Dennis J. Kimbley  
Arnold C. Schieman

### Herbert T. Kalmus

#### Memorial Award

Edward J. Blasko, *Chairman*  
Blaine Baker  
Albert Duryea  
James Merkle  
William A. Palmer

### Photo-Sonics

#### Achievement Award

Lincoln L. Endelman, *Chairman*  
J. S. Courtney-Pratt  
William G. Hyzer  
Robert Shoberg  
Hallock Swift

### David Sarnoff

#### Gold Medal Award

M. Carlos Kennedy, *Chairman*  
William G. Connolly

Howard T. LaZare

Toni Roth  
L. Merle Thomas

### Samuel L. Warner

#### Memorial Award

Blaine Baker, *Chairman*  
Nelson Funk  
Charles Nairn  
Donald Rogers  
Ronald E. Uhlig

### Journal Award

Arthur Kaiser, *Chairman*  
LeRoy DeMarsh  
Robert N. Hurst  
Stephen Kreinik  
Eddy H. A. E. Zwaneveld

### Citation for

#### Outstanding Service to the Society

Edward H. Reichard, *Chairman*  
Charles A. Ahto  
Maurice L. French  
Harry Teitelbaum  
Roland J. Zavada



Sidney P. Solow, one of the recipients of the honorary membership award, Leonard F. Coleman, SMPTE Financial Vice-President, and Kenneth M. Mason, another recipient of the honorary membership award, share a moment of camaraderie.

## Honors and Awards

The Honors and Awards Luncheon, one of the highlights of the SMPTE Technical Conference, was held at the Beverly Hilton Hotel. At this event, the Society presents a wide range of Honors and Awards that have been established over a period of years in recognition of outstanding achievement in all phases of the motion picture and television industries. The Luncheon at the 123rd Conference was held on Monday, October 26, 1981.

Guests were welcomed by Harold Eady, SMPTE Secretary, on behalf of the Society. President Charles E. Anderson described some of the services provided by and accomplishments of the SMPTE. He then introduced the honored guests seated on the dais and provided a warm introduction for the Guest Speaker, Fay Kanin, President of the Academy of Motion Picture Arts and Sciences.

In her address, Miss Kanin emphasized the equal obligation we all have to "reach into people's minds and hearts and change their lives." (The text of Fay Kanin's address is the "Point of View" in this month's *JOURNAL*.)

The Society presents the honors and awards in recogni-

tion of outstanding achievement. These have been created over a period of years.

Certain practices and rules are common to all the honors and awards. Committees consist of five Honorary, Fellow, or Active Members of the Society appointed annually by the President and confirmed by the Board of Governors. The Journal Award Committee is appointed by the Editorial Vice-President.

Any member of the Society is entitled to make a nomination for an honor or award. Such nominations should be made in writing to the chairman of the appropriate committee, giving the reasons why the writer believes the recognition justified. The committees forward their reports to the Secretary of the Society in time for presentation to the Board of Governors at their midyear meeting. Normally, honors and awards are presented by the President at the first annual meeting of the Society following approval by the Board of Governors.

The highest honor and greatest distinction that can be conferred by the Society is Honorary Membership, which includes eventual inscription on the Honor Roll of the Society. The Progress Medal is the premier medal award of the Society. The Agfa-Gevaert Gold Medal, the Eastman Kodak Gold Medal, the John Grierson International Medal Award, the Herbert T. Kalmus Memorial Award, the Photo-Sonics Achievement Award, the Citation for Outstanding Service to the Society, the David Sarnoff Gold Medal, and the Samuel L. Warner Memorial Award recognize achievement in the special fields of accomplishment described under each award.

Explanations of the awards to be presented and descriptions of the contributions of the award recipients to the industry were made by Joseph A. Flaherty, SMPTE Executive Vice-President, while the actual presentation of the awards to the recipients was made by Charles Anderson. Text and photographs of this presentation are shown below and on the following pages.

### Citation for Outstanding Service to the Society

This citation was presented to **Arthur E. Florack** and **Alvin J. Siegler** in recognition of their outstanding contributions of major benefit to the Society.



**Arthur E. Florack**  
Citation for Outstanding Service to the Society

**Arthur E. Florack** of Eastman Kodak Company was recognized for his continued efforts in support of the Ohio Section activities, serving as Manager, Secretary-Treasurer, Section Chairman, and as a speaker. He was also instrumental in starting and supporting the formation of a student chapter at Ohio University.



**Alvin J. Siegler**  
Citation for Outstanding Service to the Society

**Alvin J. Siegler** of CBS, Inc., was recognized for his outstanding service to the New York Section, serving as Manager, Program Chairman, Secretary-Treasurer, and Chairman. He was also recognized for his work in programming and producing high technology meetings for the Section, and for his continual involvement on the national level as a Governor, Conference Program Chairman-at-Large, and Chairman of Audiovisual Quality Control and Public Address and Recordings at New York National Conferences.

### The Agfa-Gevaert Gold Medal

The **Agfa-Gevaert Medal** award was presented to **Heinrich Zahn** for his creative contribution and design of a pneumatic fast pull-down telecine for 50-Hz countries, a dual-track automatic slide scanner, and for the film transport and optical parameters of the new CCD line scanner telecine.

The **Agfa Gevaert Gold Medal** was created to honor the recipient by recognizing outstanding leadership, inventiveness, and/or other achievements in the research, development, or engineering of new techniques and equipment which would result in a significant improvement in the interface between motion-picture film and television imaging systems, whereby the combined advances of both contribute to the further development of various visual communication systems.



**Heinrich Zahn**  
The Agfa-Gevaert Gold Medal Award

Heinrich Zahn is considered to be one of the leading figures in the field of German television technology, having made important contributions in almost all major areas of television broadcast equipment. Zahn holds some 30 patents, and has presented a number of technical papers on film scanners and helical VTR recording. Since 1951, his major contributions include the Ikonoscope camera, a flying spot scanner for slides, the Image Orthicon/Camera KOA, the 1.0/Camera KOD, a fast pull-down projector, a fast-start Sepmag device, continuous motion TV projectors, a B-format VTR BNC, a portable VTR, and a 1-in cassette portable VTR.

Mr. Zahn is currently head of mechanical electromechanical and optical development, Project Management 1-inch Random Access Multicassette Production System. He is also a Fellow of the Society, and has served as topic chairman for the Montreux Symposium, and session chairman for the FKTG.

#### Eastman Kodak Gold Medal Award

The **Eastman Kodak Gold Medal Award** was presented to **Dr. Robert W. Wagner** in recognition of his continuing contribution and leadership as an editor and author of educational film publications, as a researcher in the preservation of photographic materials, as a developer of an innovative concept of modular design for audiovisual programs, and as a film-television educator whose contributions to curriculum, technique, and professionalism have been recognized throughout the world.

The purpose of this award is to honor the recipient by recognizing his outstanding contributions leading to a new educational program utilizing motion pictures, television, high-speed and instrumentation photography, or other photographic services. The award recognizes important developments in equipment, systems, or instructional applications which result in advancing the educational process.

Robert W. Wagner, Ph.D., has had forty years of experience in the design, production, and use of audiovisual materials in educational and informational programs in universities, industry, and national development, both in the United States and abroad. He wrote the section on

“Educational Films” for the 1958 edition of the *Encyclopaedia Britannica*, as well as “The Generation of Images” as a member of the President’s Commission on Instructional Technology. Wagner’s experiments with the preservation of nitrate-based photographic materials further culminated in an M.A. thesis and the articles “Motion Picture Restoration” (published in *American Archivist*) and “Preservation and Restoration of Photographic Materials Through Nuclear and Ultra-Sonic Methods” (published in *Illinois Libraries*).

As a film-television educator he has taught many courses in the U.S., and he has lectured, consulted, and produced films in Latin America, Europe, Asia, and Africa. In 1977, Wagner was invited to act as consultant to the film industry in Sri Lanka, and in 1979, he was invited by the Ministry of Culture to tour and assist the film and television industries of the People’s Republic of China.



**Dr. Robert W. Wagner**  
Eastman Kodak Gold Medal Award

For nineteen years Dr. Wagner was editor of the University Film Association’s *Journal*. He is presently a consulting editor for the *Journal* of the Association for Educational Communication, Technology, and Research, and has been consulting editor for *The American Film* magazine. Dr. Wagner is also a Fellow of the SMPTE and a Trustee of the American Film Institute.

#### John Grierson International Medal Award

This award was presented to **Peter Parks**. As a zoologist, marine biologist, artist, engineer, craftsman, and cameraman, Mr. Parks is a founding member of Oxford Scientific Films Ltd., now famous the world over for their contribution to natural history filmmaking.

Mr. Parks has been a leader, known as “the main fountain of technological innovation,” of the team that developed the vibration-free optical benches, which are crucial in the particular micro and macro photography in which Oxford Scientific Films specializes.

The **John Grierson International Medal Award** is given to honor the recipient by recognizing significant technological achievements related to the production of documentary motion-picture films.



**Peter Parks**  
**John Grierson International Medal Award**

Peter Parks is co-founder and Technical Director of Oxford Scientific Films, headquartered in Oxford, England. He holds degrees in Zoology, Botany, and Geology. He is responsible for the design and co-construction of Oxford Scientific Films' darkfield optical benches: the Cosmoglides, the Pathfinder, the Stellaglide, the Cosmoscope, the Galactascope, the Astroprobe, the Space Image Relay Systems, and the M.P.C. motion control rig.

Parks is currently involved with Oxford Scientific Films as Biological Film Director, design engineer, Supervisor of Special Effects, and supervisor of all marine biological projects.

He is a Fellow of the Royal Photographic Society of Great Britain, and was a recipient of a Kodak Research Award in 1970.

#### **Herbert T. Kalmus Memorial Award**

The **Herbert T. Kalmus Memorial Award** was awarded to **Manfred G. Michelson** for his substantial engineering contributions to the development of printing and processing and the process control equipment used to produce color motion pictures.

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

Manfred Michelson has worked as an engineer in the motion picture industry for fifteen years, in association with three separate companies. As a direct result of his work, Mr. Michelson received an Academy of Motion Picture Arts and Sciences Scientific and Engineering Award at each of the three companies he had worked with.

His latest achievement is the development of a high-speed laboratory release print production system, which features a printing system that operates at 2000 feet per minute and has a number of other novel innovations. The second part of this system is the mechanical modification of processing

machines that enables them to operate reliably and consistently at speeds of 420 feet per minute. It was for the printer portion of this system that Mr. Michelson received a Scientific and Engineering Award from the Academy of Motion Picture Arts and Sciences.

In addition to this major high-speed release print system, Michelson was also responsible for the development of a practical working model of a high-speed optical reduction printer (operating at 200 feet per minute), which also received a Scientific and Engineering Award from the Academy. He also received an Academy technical achievement award for his part in the development of a computerized motion-picture printer and process control system.



**Manfred G. Michelson**  
**Herbert T. Kalmus Memorial Award**

While at DeLuxe Laboratories, he collaborated with Fred Scobey in the development of the Michelson Sensitometer.

Mr. Michelson is the co-author of numerous technical articles published in the *SMPTE JOURNAL*. He is presently International Vice-President of Engineering at Technicolor, Inc., and is a Fellow of the Society.

#### **David Sarnoff Gold Medal Award**

The **Gold Medal Award** was presented to **Dr. Takashi Fujio** for his leadership and significant engineering contributions to the continuing development of a high-definition television system and related technologies.

The purpose of the **David Sarnoff Gold Medal Award** is to honor the recipient by recognizing his outstanding contributions in the development of new techniques or equipment which has contributed to the improvement of the engineering phases of television, including theater television.

Researching and developing future television systems has been the thrust of Dr. Fujio's work for many years. In this area, he developed the television sound transmission system with color burst signals in 1969. He has most recently been involved in the research and development of high-definition television systems for the future. He holds seven patents in the field of high-definition television systems, in addition to 27 patents that have been applied for.



**Dr. Takashi Fujio**  
David Samoff Gold Medal Award

In 1979, Dr. Fujio received the Achievement Award from the Institute of Television Engineers of Japan.

Dr. Fujio graduated from the Hyogo Technical College in 1950, and continued his education to receive his doctorate in electrical engineering from the Tokyo Institute of Technology in 1967.

Dr. Fujio is currently Deputy-Director of the NHK Technical Research Laboratories in Tokyo, Japan.

### The Journal Award

This award was presented to **Toyohiko Hatada**, **Haruo Sakata**, and **Hideo Kusaka** in recognition of their outstanding paper originally published in the *SMPTE JOURNAL* during the previous year.



Toyohiko Hatada, top; Haruo Sakata, bottom left; Hideo Kusaka, bottom right.



The paper for which they received the award, "Psychophysical Analysis of the 'Sensation of Reality' Induced by a Visual Wide-field Display," was published in the August 1980 *JOURNAL*.

Messrs. Hatada, Sakata, and Kusaka are with the Auditory and Visual Information Processing Research Group, Broadcasting Science Research Laboratories, at the Japan Broadcasting Corporation, Tokyo, Japan.

### Journal Award — Honorable Mention

A **Journal Award — Honorable Mention** was presented to **Katsuya Yokoyama**, **Shozo Nakagawa**, and **Hironobu Katayama** for their outstanding paper entitled "An Experimental Digital Videotape Recorder," published in the March 1980 *SMPTE JOURNAL*.



Katsuya Yokoyama, top; Shozo Nakagawa, bottom left; Hironobu Katayama, bottom right.



Messrs. Yokoyama, Nakagawa, and Katayama are affiliated with the Technical Research Laboratories of Japan Broadcasting Corporation, Tokyo, Japan.

### Photo-Sonics Achievement Award

The **Photo-Sonics Achievement Medal** was awarded to **Professor Gong Zutong**. Professor Gong has served the photonics community as Vice-President of the Xian branch of the Chinese Academy of Sciences, Director of the Xian Institute of Optics and Precision Mechanics, and as National Delegate to the International Congresses on High-Speed Photography and Photonics for the People's Republic of China.

The purpose of the **Photo-Sonics Achievement Medal** is to honor the recipient by recognizing his outstanding contribution to the development of new techniques or equipment which have contributed to the improvement of the engineering phases of instrumentation and/or high-speed photography.



**Prof. Gong Zutong**  
**Photo-Sonics Achievement Award**

Professor Gong Zutong is China's leading expert in applied optical instrumentation. His accomplishments are many, including that he was the first to introduce design methods of optics in China, that he successfully trial-produced China's first optical glasses, that he produced their first electron microscope, infrared telescope for night vision, and China's first optical fibers. Professor Gong is one of the founders of China's high-speed photography and photonics, the Xian Institute of Optics and Precision Mechanics, and is currently the Leading Research Professor, Vice-President of the Xian Branch, Academia Sinica, and Director of the Institute. The Institute is a research and development facility dedicated to the design of high-speed cameras and other electro-optical and mechano-optical instruments for use in research and other technical applications.

Professor Gong has been instrumental in designing several high-speed cameras and electro-optical devices. He has fathered the development of more than a dozen different types of high-speed cameras utilizing multiple techniques, including intermittent frame, rotating prism, rotating mirror, Kerr Cell, and image converter tube designs. Frame rates have been achieved in excess of 20 million FPS.

Professor Gong is currently involved in high-speed raster cameras, gradient index objects for cameras, and bombardment of high-speed electrons on tungsten targets in search of artificial annihilation radiation. He holds the honorary degree of Academician of the Chinese Academy of Sciences.

#### **Samuel L. Warner Memorial Award**

The **Samuel L. Warner Memorial Award** was presented to John Aalberg for his contributions to the improvement of and continued technological development of motion picture and recording sound over the last 60 years.

The purpose of this award is to honor an individual by recognizing his outstanding contribution 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.

John Aalberg has spent more than 60 continuous years in progressing the technology of exhibiting motion pictures and recording sound. He was sound director at RKO Studios for 20 years. His RKO sound department was awarded three Oscars — two for best sound and one for invention — as well as several awards for technical achievements. His work covers the period from small, one-projector store-theaters to the modern, complex picture and sound systems.



**John O. Aalberg**  
**Samuel L. Warner Memorial Award**

Mr. Aalberg has AA and EE degrees, has been a member of the SMPTE since 1928, and manager of the Hollywood section since 1937. He became a Foundation Member of the Academy of Motion Picture Arts and Sciences in 1930, and has been a technical contributor for the last fifty years. He served on the Academy's Board of Directors for 12 years, was the Academy Treasurer and Assistant Treasurer over a period of 11 years, and has been an Academy Vice-President. He has also served on the Academy's Technical Bureau and Research Council since 1928, and became a member of the Council in 1936. For 28 years he has served on the Academy's Scientific or Technical Awards Committee, and chaired the Committee in 1956, '57, '59, '60, and 62.

In 1942, military duty took Mr. Aalberg to the headquarters of the China-Burma-India operation, where he was Chief of the Pictorial of the Signal Corps. He was awarded a Legion of Merit decoration for outstanding service.

John Aalberg is a Life Fellow Member of the Society.

#### **The Progress Medal**

The **Progress Medal** was awarded to **Daan Zwick** for his extensive original research into the image structure properties and emulsion design of color films, which resulted in significant improvements in image quality. He has additionally played a leading role in the development of national and international standards for color film intended for television, and in developing test materials for telecine alignment.

The purpose of the **Progress Medal** is to recognize individual outstanding technical contributions to the progress

of engineering phases of the motion picture and/or television industries.

Daan Zwick graduated from the University of Vermont in 1943, and joined the Research Laboratories of Eastman Kodak Company in 1944. He is presently a Senior Research Associate, and has worked on new and improved color films (including the Eastman Color family of motion picture films). He has made particular contributions to the color intermediate films essential to post-processing. Zwick has carried out extensive investigations into the image structure properties of color films, and has studied the performance of color films in television in order to identify the parameters that govern quality and to demonstrate the improvements possible with this control. Much of this work has been chronicled in the *SMPTE JOURNAL* over the past twenty years.



Daan Zwick  
Progress Medal

A member of the Television Video Technology Committee (and of its predecessor, the Color Committee and Television Committee), Mr. Zwick has served as an SMPTE representative on the ad hoc Committee for Color Television Study (J.C.I.C.), the U.S. Study Group 10 of the CCIR, the InterSociety Color Council, and the CIE. He has played a leading role in the development of national and international standards for color film intended for television, and in developing test materials for telecine alignment. Zwick has served on the SMPTE's Board of Governors, on the committees for national and regional technical conferences, and has also been an active member of the Rochester Section.

Daan Zwick is currently working on further studies of color image structure, and is quantifying the other factors which affect the quality of color photographic images.

Mr. Zwick is a Fellow of the SMPTE, and has received the Kalmus Gold Medal Award (1972) for his extensive studies on the basic nature of graininess and sharpness. He was also the recipient of the 1976 Agfa Gevaert Gold Medal Award for his work contributing to the film and video interface.

## Honorary Membership

An **Honorary Membership** was bestowed upon **Kenneth M. Mason** for his involvement in the field of motion-picture technology since 1935. He is renowned in the United States and throughout the world as a leader and trusted friend of the motion picture community.



Kenneth M. Mason  
Honorary Membership

The purpose of **Honorary Membership** in the Society is to honor persons who have performed eminent service in the advancement of engineering in motion pictures, television, or in the allied arts and sciences.

Mr. Mason has been instrumental in the engineering development and marketing of Kodachrome Commercial Original Film and its duplication stock, and the current Eastman Color Reversal Intermediate Film. He also assisted with the development and distribution of Eastman Color projectors, specifically models 250, 275, 300, 350, and 400. His engineering expertise made an important contribution to the initial introduction of the Kodak Super 8-mm film system announced in Chicago in 1962.

Kenneth Mason has served as liaison between the trade and Eastman Kodak's manufacturing plants by providing data necessary for the improvement of products used in the motion picture arts and sciences, as well as in the field of television.

In his many executive positions, Mason has always given freely of his time and efforts to the SMPTE. In fact, he has served as a member of the Board of Governors for over a quarter of a century, from 1956 to 1981. During that time he has served the Society in elected positions ranging from Governor to President.

**Honorary Membership** was also bestowed upon **Sidney P. Solow** for his service and technical contributions to the motion picture laboratory discipline, and to the entire motion picture industry. As a teacher, lecturer, chemist, scientist, technician, and executive for almost 50 years, Mr.



**Sidney P. Solow**  
Honorary Membership

Solow has dedicated his life's work to the advancement and improvements of laboratory techniques.

As former President and present Chairman of the Executive Committee of Consolidated Film Industries, and Associate Professor of Cinema at the University of Southern California, Sidney P. Solow has made an outstanding contribution to the technology of the motion picture industry for more than 49 years. As a manager and educator, Solow has provided leadership and continuing creative technical education to many students all over the world, as well as to his associates and company personnel.

Solow has received recognition from the Academy of Motion Picture Arts and Sciences for his scientific and technical achievements. In 1974, he received the Progress Medal, the SMPTE's highest medal award, in recognition of his outstanding technical contributions to the progress of engineering or scientific phases of the motion-picture and/or television industries.

Sidney Solow has devoted his energies to the broad field of scientific endeavors for nearly five decades, particularly in the area of color processes. Today, he is regarded with respect for his outstanding technical achievements, including the applications of chemical, mechanical, and optical innovations for the improvement of laboratory techniques. He has obtained an outstanding rank among his colleagues.

Mr. Solow is a Life Member of the Society.

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## Fellows Luncheon

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On Tuesday at noon, the annual Luncheon for new and old Fellows of the Society was held in the Westside Room at the Century Plaza. Names of the new Fellows were announced at the Awards Luncheon on Monday, and at the Tuesday Luncheon they were introduced to their Fellow peers.

The Board of Governors of the SMPTE, upon recommendation of the Fellow Membership Committee, under the Chairmanship of Robert M. Smith, Du Art Film Laboratories, confer the distinguished grade of Fellow Member. The Fellowships were presented by SMPTE President Charles E. Anderson at the Fellows Luncheon.

A Fellow of the Society is one who is no less than 30 years of age and who has, by his proficiency and contributions, attained an outstanding rank among engineers or executives of the motion picture, television, or related industries.



Dais at the Fellows Luncheon, which was held on October 27, 1981, in the Westside Room at the Century Plaza Hotel. Left to right: John G. Frayne, Robert M. Smith, Charles E. Anderson, Joseph A. Flaherty, Roland J. Zavada, Conrad L. Scheetz.

**Elected Fellows — 1981**

**Blaine Baker**  
*Motion Picture Laboratories*

**Raymond J. Brulé**  
*3M Canada Ltd.*

**Kenneth P. Davies**  
*Canadian Broadcasting Corp.—  
Radio Canada*

**Takeo Eguchi**  
*Sony Corp.*

**C. Robert Fine**  
*Fine Communications Corp.*

**Byron L. Friend**  
*Telecine Film Studios, Inc.*

**Rudolf Gressmann**  
*European Broadcasting Union*

**Robert S. Hopkins**  
*RCA Corp.*

**Donald Dudley Kennedy**  
*Commonwealth Government  
of Australia (Retired)*

**Eric V. Knutsen**  
*TVC Video Inc.*

**Harry Manley**  
*Colour Film Services Ltd.*

**Masahiko Morizono**  
*Sony Corp.*

**Peter Rainger**  
*British Broadcasting Corp.*

**Leonard Sokolow**  
*Consolidated Film Industries*

**Glen Rae Southworth**  
*Colorado Video, Inc.*

**James Stone**  
*Bonded Storage (Retired)*

**Ronald E. Uhlig**  
*Eastman Kodak Co.*

**John W. Zwergel**  
*Motion Picture Film Services, Inc.*

At the right, the Fellows Luncheon, October 1981.



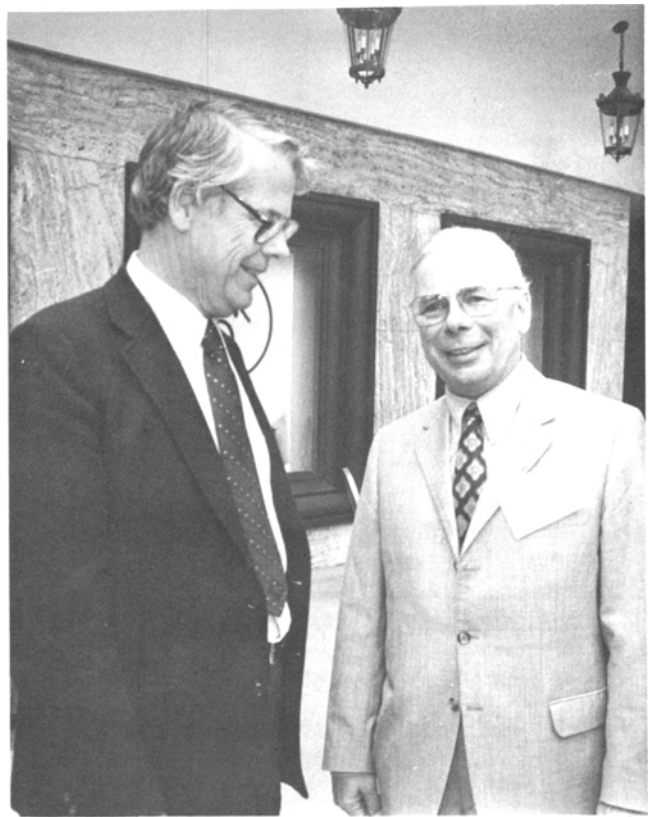
President Charles E. Anderson presented the awards at the Fellows Luncheon.



On the right, father and son at the Fellows Luncheon: Bud Stone, Fellow, and his father, James Stone, new Fellow.



**John G. Frayne, Past President 1955-56, was the Fellows Luncheon Speaker.**



**Heinz H. Thiele of Germany with President Anderson at the Fellows Luncheon reception.**



**Fellows Luncheon reception.**

## 1981 SMPTE Fellowships



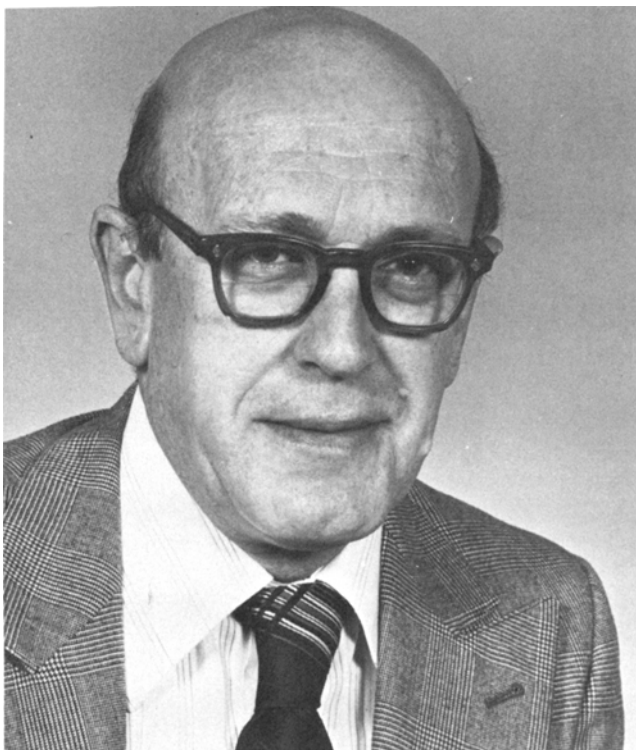
**New Fellows. Front row, left to right: Byron L. Friend, John W. Zwergel, James Stone, Donald D. Kennedy, Peter Rainger, Robert S. Hopkins. Second row: Takeo Eguchi, Kenneth P. Davies, Leonard Sokolow, Henry Manley, Ronald E. Uhlig, Blaine Baker. Not present: Rudolf Gressmann, Eric V. Knutsen, Masahiko Morizono, C. Robert Fine, Glen Rae Southworth, Raymond J. Brulé.**



**Blaine Baker accepting his award from President Anderson.**

**Blaine Baker**, President, Motion Picture Laboratories, Inc. of Memphis, Tennessee, received his B.A. in Communications from the University of Arkansas. For many years he was with Versatile TV Productions, before joining Motion Picture Laboratories in 1966. He was appointed to the State Film Board by the Governor of Tennessee, and for years has been involved in setting up programs and seminars for MPL, introducing new systems and techniques, i.e., tape-to-film transfers, and comparison studies of Ektachrome versus color negative film. He has been extremely active in Society affairs, and served as Section Chairman, as well as a Governor of the Society, for a number of years.

**Raymond J. Brulé**, Technical Manager, Recording Materials Division 3M Canada Inc., London, Ontario. B.Sc. Physics and Mathematics, University of Western Ontario, 1949. Employed by 3M in 1956, he has held the present position for 10 years. A member of SMPTE since 1959, he served on the Board of Managers of the Toronto Section for two years, was Secretary/Treasurer for two years and Chairman for two years. He has served on various committees for SMPTE conventions in Toronto and recently



**Raymond J. Brulé.**

was Program Chairman for the 1980 Television Conference. He has presented papers at several Section meetings, SMPTE Little Conventions, and Canadian Broadcasters' Conferences. He has been Chairman of the Canadian Committee of the I.E.C. TC 60 Recording for twelve years, and has been an active participant in International Standards work. He is a member of the Association of Professional Engineers of Ontario.

**Kenneth P. Davies, Sr.** Engineer, Studio Systems Department, Canadian Broadcasting Corp. He has been active in broadcasting since 1951, specializing in television since 1958. Since 1977, he has been occupied at CBC with developments in digital video and related automation technology. On behalf of SMPTE he has been assisting the search for digital video standards as Chairman of its



**Kenneth P. Davies accepting his award.**

Working Group on Digital Standards. He also directed the Society's component-coded digital video demonstrations in February 1981. For a number of years he has specialized in the use of computer logic techniques in television production and broadcasting, and has pioneered development of applications in TV automation, post-production editing, graphics and studio production.



**Takeo Eguchi accepting award.**

**Takeo Eguchi**, Manager of the Video Project Office at Sony Corporation in Japan, has made significant contributions to the industry as a member of the Society's New Technology Engineering Committee, as well as being one of the developers of the Digital Video Tape Recorder for Sony. Mr. Eguchi holds 14 patents on Color TV Signal Processing, one on the disk player, and one on digital magnetic recording. He received an award for 50 generations dubbing by DVTR from the Royal Television Society. Mr. Eguchi led the Sony team in developing and making available to the Society's Digital Demo a 14.3 MHz recorder, an outstanding and dedicated contribution to needed industry knowledge.



**C. Robert Fine (text on facing page).**

**C. Robert Fine**, President and Chief Executive Officer of Fine Communications in Harrison, New York, has been involved in the area of sound from the beginning of his career in 1945 with Majestic Records, Inc. He has a number of patents granted and pending, and received a Grammy Award in 1963 for Best Engineering, Novel Effects, Mercury Records, "The Civil War, Vol. II." Mr. Fine is a visiting lecturer at New York University and a consultant, and is a Charter Member and Fellow of the Audio Engineering Society, IEEE, Senior Member, and a member of the Acoustical Society of America.



**Byron L. Friend** accepting his award.

**Byron L. Friend**, Founder and President, Telecine Film Studios, Inc., Park Ridge, Illinois, is a Founding Board Member of the Midwest Seminar on Film/Tape, Member of the Chicago Film Council and Information Film Producers Association. His work has taken him to every State in the Union and into many foreign countries. He was a pioneer for the first multi-cam productions in the Midwest, the first to produce a motion picture series in color for television, and to produce an educational film utilizing the then current "state of the art" technology including immixture, computerized electronic editing, and two-way transfers. He is a frequent lecturer, and has been film instructor in the NBC-Northwestern Summer Institute.



**Rudolf Gressmann**.

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**Rudolf Gressmann**, Director, Technical Centre, European Broadcasting Union. Mr. Gressmann is a frequent speaker and writer on Broadcast Engineering, present and future. He is a corresponding member of the International Broadcasting Convention, Member of the Round Table, Montreux Symposium, and a member of the Fernseh- und Kinotechnische Gesellschaft. As Director of the EBU Technical Center in Brussels, Mr. Gressmann fills one of the most prestigious positions in broadcasting. Through his administration he has made many valuable contributions to the work of improving and standardizing broadcasting technology.



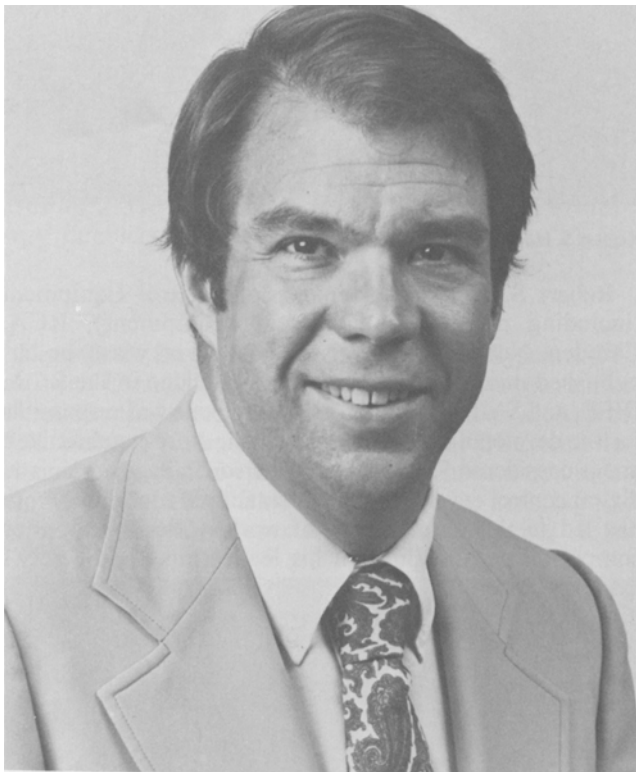
**Robert S. Hopkins** receiving award.

**Robert S. Hopkins**, Manager of Control Equipment (including all digital engineering equipment), RCA, Camden, New Jersey. Over the past seven years, he has published numerous articles on digital video in the RCA, IEEE, and SMPTE *Journals*. Mr. Hopkins was responsible for the development of the RCA frame store synchronizer, and is considered RCA's primary person in engineering and digital control development. His standards committee work has led to the development of world-wide digital video compatibility, and through his leadership, the Society's international scope of activities has encompassed seven to nine nations. It has aided significantly in the Society's being recognized for its role of international engineering leadership.

**Donald D. Kennedy**, Australian Government (retired). He was appointed to a specially created position by the Australian Government to research and implement the presentation of a circular motion picture over 100 yards in length to be presented under ambient light conditions not normally encountered. This required the development of new equipment, including a collective Xenon light source of 600 kW in addition to a special screen to cope with the reflection demands of such a large and intense picture area. This technique was presented in the Australian Pavilion at Expo 70, in Japan. In 1977 he was presented the Queen's Jubilee Medal for service to the Australian Film Industry.



**Donald D. Kennedy accepting award.**



**Eric V. Knutsen.**

**Eric V. Knutsen**, President, TVC Video, Inc. and Vice-President, Data-Plex Systems, Inc. His career began with the Eastman Kodak Company, where he was responsible for development work on Eastman Video News Films, Eastman photographic consultant to the Olympic Games in Montreal, and in 1979 he toured and lectured in the People's Republic of China on current motion picture technology. He authored and co-authored several technical papers, and has been active in SMPTE activities relating to standards work for many years.



**Henry Manley receiving award.**

**Henry Manley**, Managing Director of Colour Film Services Ltd. and Colour Video Services Ltd. in London, England, is a member of the development team which led to a computerized frame count cueing system in his company. He designed and supervised the installation of the tape to film and film to tape installation, including a one-inch editing facility, as well as being involved in the installation of a design of a full conference audiovisual facility for all forms of visual displays, the first such facility in the United Kingdom. Mr. Manley is an Honorary Fellow of the BKSTS, Fellow of the Institute of Chartered Secretaries and Administrators, Fellow of the Royal Society of Arts, and the British Academy of Film and Television Arts. He is also a member of the Royal Television Society.



**Award presented to Masahiko Morizono being accepted by Takeo Eguchi.**

**Masahiko Morizono**, Senior Managing Director of Sony Corp. in Japan, led the development of video magnetic recording techniques for many years. He published the first description of "head and a half" helical video recording technique in 1964, which is the basis for the present

SMPTE Type C format. He was also involved in the development of the "U-matic" format. Mr. Morizono has been active in the committee work of the VTR Subcommittee that established the Type C format specification in 1977. He is the recipient of the Montreux Gold Medal and the Society's David Sarnoff Gold Medal Award.



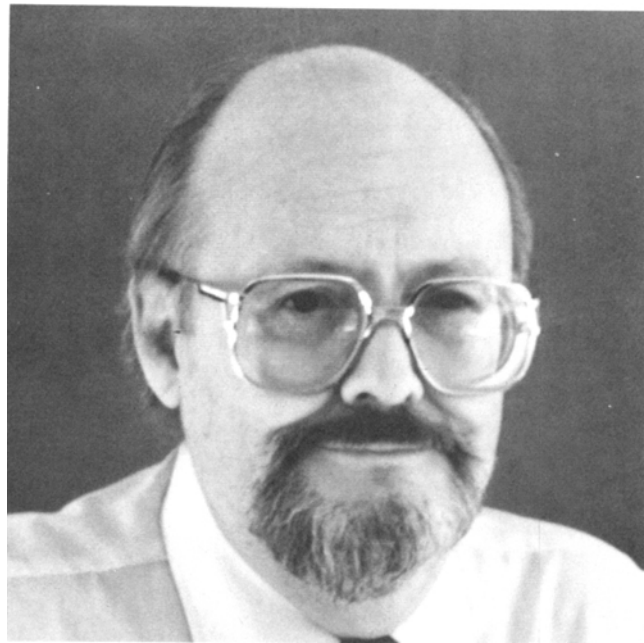
**Peter Rainger accepting his award.**

**Peter Rainger**, Deputy Director of Engineering, British Broadcasting Corporation, has been with this company since 1968. He began his career as Head of the Design Department, proceeded to Head of Research, and then to his present position. He is well known as an author of papers concerning video tape recording, digital audio and video, as well as in most other areas of the broadcast facility. He was the recipient of the Television Academy Award from the National Academy of Arts and Sciences and the SMPTE David Sarnoff Gold Medal Award.



**Leonard Sokolow receiving his award.**

**Leonard Sokolow**, Associate Superintendent, Quality Control, at Consolidated Film Industries. Mr. Sokolow was the inventor of the Stroboscopic Scene Tester (1965). In 1970, he invented the single-frame proof printer, which is used for accurate color timing. His present work is to set standards and controls for all phases of printing, developing sensitometry (including chemistry), and inspection viewing. Mr. Sokolow has received two awards from the Academy of Motion Picture Arts and Sciences for the above inventions.



**Glen Rae Southworth.**

**Glen Rae Southworth**, President, Colorado Video, Inc., Boulder, Colorado. Prior to his present position, Mr. Southworth was Research Engineer for Ball Brothers Research Corp., as well as holding various positions in engineering with a number of television stations. Mr. Southworth holds patents on Narrow Bandwidth Television System, High-Speed Digital Phase Modulation Encoder, Scan Converter and Television Scan Conversion System, Television Bandwidth Compression and Expansion System, Automatic Means for Remote Sweep Scanning of a Liquid Level and for Controlling Flow to Maintain Such Level and Bandwidth Compression System and Method. Over the years, Mr. Southworth has had more than 65 papers published.

**James Stone**, Consultant, Bonded Services. He is considered one of the pioneers in the motion picture laboratory business, having begun his career as an assistant engineer at Consolidated Film Industries in Fort Lee, New Jersey in 1930. At that time he had a major role in the planning and construction of a complete motion picture laboratory for printing and processing. During the course of his career, he held various engineering jobs at this laboratory, including that of chief engineer, and finally, general manager. After this laboratory was taken over by Bonded Storage, Mr. Stone remained as Vice-President and managed the operation of the storage facility until he retired in 1979.



James Stone receiving his award.



Ronald E. Uhlig accepting his award.

**Ronald E. Uhlig**, Senior Engineer, Eastman Kodak Company, Rochester, New York. Mr. Uhlig has authored and co-authored eight papers relating to sound technology. He has been on the Audio Technology Committee for more than six years, and has participated in several working groups, including chairing the one on signal-to-noise. He is currently active on the Motion Picture Data Track Working Group, and has served on the JCIC Committee for audio track encoding. Mr. Uhlig's committee work and papers contributions have advanced the art and science of sound technology.

**John William Zwergel**, President, Motion Picture Film Services, Inc. of Pittsburgh, Pennsylvania. Mr. Zwergel has a long and meritorious history in the industry, extending over 25 years, as a technician with Academy Pictures; in

motion picture laboratory activity during military service; as a lab manager at Warren R. Smith Lab, and then in his present position. In his latter capacity, he organized and built a full commercial laboratory operation. He has developed and provided workshop programs for the novice filmmaker with hands-on techniques and experience. Mr. Zwergel is a Member of the Board of Directors of the Association of Cinema and Video Labs.



John W. Zwergel receiving his award.

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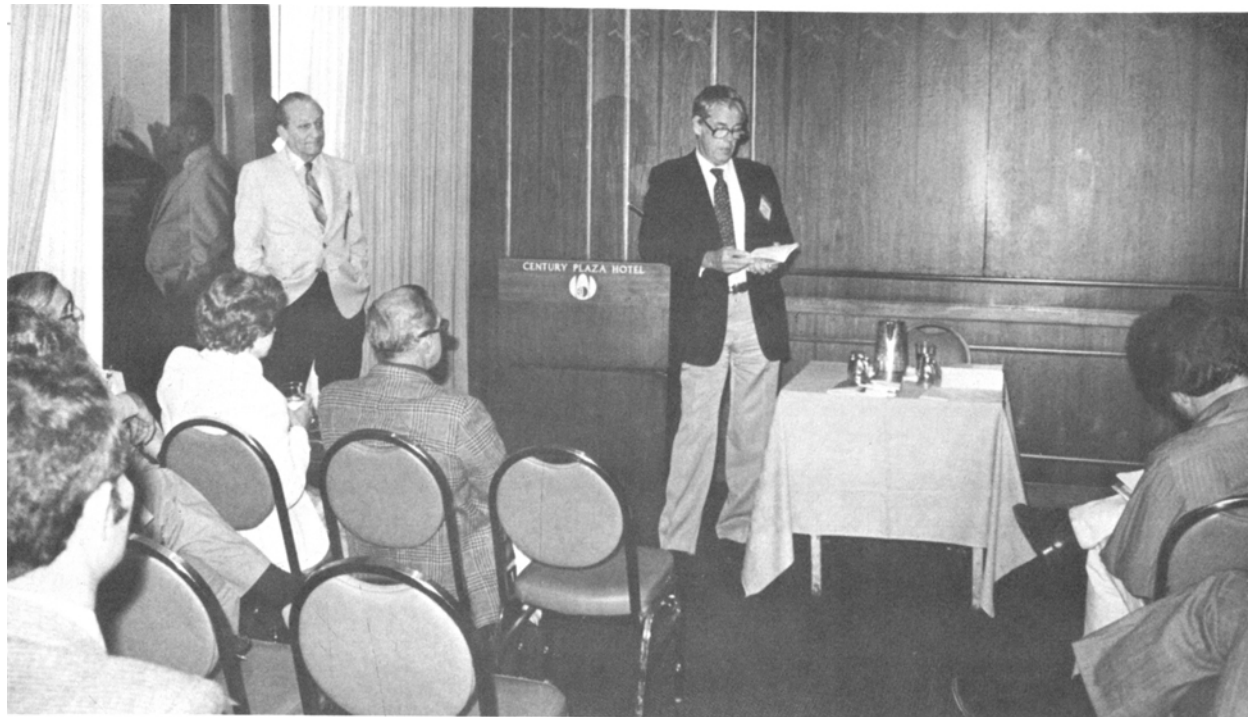
*At the Convention . . .*



Top: An SMPTE delegation from Latin America. Bottom: An SMPTE delegation from Spain with American friends.

# The Press Conference

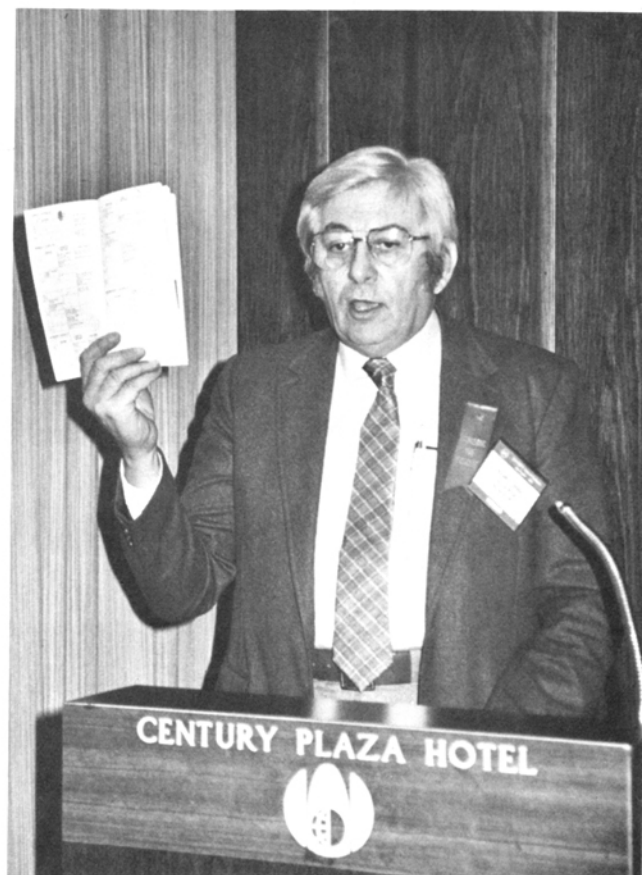
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**President Charles E. Anderson opens the 123rd Technical Conference and Equipment Exhibit with a brief statement at the press conference on Sunday evening.**



**Julian D. Hopkins, Program Chairman, pays tribute to "all the people who worked so hard to make the 123rd Conference a reality."**



**Roland J. Zavada, Engineering Vice-President, discusses the Society leadership in standardization and compatibility.**



Members of the press from *Broadcast Engineering*: Bill Rhodes (Editorial Director), and Cameron Bishop. Alex E. Alden, SMPTE Manager of Engineering Services, looks on.



A member of the press, Herb Lightman, who is Editor of *American Cinematographer*, listens as the opening statement is being made at the press conference.

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## Meeting of Papers and Publications Advisory Committee

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This Committee met at the 123rd Technical Conference under the chairmanship of Maurice L. French, the Editorial Vice-President. The Program Chairman for next year's Conference, Gary Borton, was in attendance, and there was a useful discussion of the Papers Program and how it needs to satisfy various goals. The primary purpose is to provide a wide selection of presentations for the registrants. The papers presented also serve as a pool of potential articles to be considered for publication in the *SMPTE JOURNAL*. However, the program must strike a compromise between too much overlap in presentations (which makes it impossible for a registrant to attend two simultaneous sessions) and insufficient overlap (which reduces the number of presentations that can be made).

French indicated that the next SMPTE book publication would be a collection of papers and a panel discussion based on the upcoming 16th SMPTE Television Conference. There was a discussion of the usefulness of tutorial papers, especially for the *JOURNAL*, and ways to go about ob-

taining such papers were suggested. Some aspects of the *SMPTE JOURNAL* were mentioned — for the benefit of those who were not at the Board of Governors meeting held earlier in the week.

French announced the reappointment of Calvin Hotchkiss as Chairman of the Board of Editors for another one-year term, and thanked him and the other members of the Committee for all their help.



Alberto Rubenstein, Kodak — Argentina, and Juan J. Stagnaro, Argentinian special effects expert, exchange manuscript information with the *SMPTE JOURNAL* editor.

# Meeting of the Board of Editors

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Board of Editors Meeting, Century Plaza Hotel, where future developments and criteria for *JOURNAL* papers are discussed.



**Paul A. Kaufman of Du Art and Lincoln L. Endelman of Perkin-Elmer Corporation, both members of the Board of Editors, with Arthur Biderman, Technical Editor — *SMPTE JOURNAL*.**



**Members of the Board of Editors: Joseph Roizen of Telegen, Herbert E. Farmer of the University of Southern California, and Frederick Remley of the University of Michigan.**

**Maurice L. French, Editorial Vice-President, and Calvin M. Hotchkiss, Chairman of the Board of Editors, discuss strategies and changes in the *SMPTE JOURNAL* prior to the Board of Editors meeting.**



The Board of Editors met, under the direction of its Chairman, Calvin M. Hotchkiss. Attention was focused on the *SMPTE JOURNAL*, with a view toward presenting information to the reader in the best form possible. Changes in the format, graphics, arrangement, and content of the *JOURNAL* — those already carried out and those still in the planning stage — were described, discussed, and evaluated. Some of the points touched upon were biographical sketches, "Point of View" articles, and glossaries of technical abbreviations and acronyms. It was agreed that there should be increased coverage of section meetings, including the use of suitable photographs. The procedures for reviewing technical papers were also discussed, and the members of the Board were thanked for their time and effort in carrying out this important function.

## PMPEA Program

The Professional Motion Picture Equipment Association (PMPEA) program was held at the Sam Goldwyn Academy Theater. It was a spectacular description and display by movie stuntmen of their art and of some of the film footage depicting this. Each year at the time of the SMPTE Conference, the PMPEA offers an evening program related to motion picture production.

The devices used to propel a stuntman into the air from the saddle of a moving motorcycle were displayed, and action footage from *Raiders of the Lost Ark* was shown as an example of how stuntmen's footage is edited so as to create the illusion that the leading man is actually involved in the action scene.



**Maurice L. French, Editorial Vice-President, and Joseph A. Flaherty, Executive Vice-President, between Board of Governors Sessions.**

# Color, Sound, and Wide-Screen: A Popular History of Film

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This presentation was a joint project between the SMPTE Historical Committee, the Academy of Motion Picture Arts and Sciences, and the UCLA Film Archives. The program was put together by Anthony Slide, who is the film historian for the Academy, and Robert Gitt, who is the preservation officer at the UCLA Film Archives. They are both members of the SMPTE Historical Committee,

and they put together for the SMPTE Conference an evening devoted to the technological history of motion pictures.

The program included original period films showing both wide-screen and color processes, as well as sound films, providing a reproduction of the kinds and qualities of sound that one would have heard in a given period. These films and soundtracks were

culled from archives all over the world and put together in an organized package to show the development of color, sound, and wide-screen.

This program was arranged specifically for the SMPTE Conference. It was done for the SMPTE membership and was opened up to the general public. The SMPTE is grateful to all concerned for this interesting presentation. (See also p. 118.)

## Historical Television Equipment Exhibit

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This year marked the 30th anniversary of commercial color television in the United States and the 50th anniversary of all-electronic black-and-white television in Los Angeles. Featured in the exhibit area were receivers dating from 1937 through 1954. Through the courtesy of the UCLA Television Technology and Design Department, the exhibit featured the Don Lee Experimental Receiver of 1937, the RCA Model Test Receiver of 1936-38, the RCA 1939 receiver, the CBS-Columbia 12CC2 Color Receiver of 1951, the CBS Field-Sequential Color Camera of 1950, the CBS Color System Test Pattern of 1947, and other RCA NTSC receivers.

On June 25, 1951, regular commercial colorcasts of the CBS field-sequential color system began on a five-station East-coast network. CBS, the temporary winner in the color TV war with RCA, was to continue its broadcasts only until October 20, 1951. Production of the only commercial receiver was halted by the government to conserve materials for the Korean War. The industry then cooperated in the development of the NTSC color standards used today.

Harry Lubcke pioneered the development of West Coast television with his Don Lee station. On December 23, 1931, station W6XAO began regular film telecasts, using all-electronic flying spot scanning and sync generation. In 1932, Lubcke demonstrated

the self-synchronizing performance of his 44.5-MHz telecasts by flying an operating TV receiver in an airplane over Los Angeles. His telecasts progressed through 80-line, 300-line, and 441-line standards during the 1930's. On January 1, 1940, Lubcke telecast

a remote live pickup from Pasadena of the Tournament of Roses Parade. After World War II, the experimental licensee W6XAO became the commercial station KTSL. The station was sold to CBS in the early 1950's and became KNXT.



A wide variety of early television equipment, including cameras and receivers, was displayed as part of the SMPTE Equipment Exhibit.

# Spouses' Program

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The Spouses' Program at the 123rd Conference was a memorable one. This year's program was an especially festive event because it celebrated the Los Angeles Bicentennial (1781-1981). It was also the first time the program was a sponsored event. The sponsor was JVC Professional Video Division, which provided a reason for having lots of music. The first evening's entertainment was provided by a Dixieland Band at the Old Town Mall, by UCLA's International Folk Dancers, and by the American Square Dancers.

Tuesday's highlight was a visit to San Sylmar in the San Fernando Valley, featuring music from a magnificent Wurlitzer pipe organ. The Hollywood Experience at ABC's Entertainment Center was another popular attraction.

On Wednesday, the group lunched at La Venta Inn overlooking Malaga Cove, where they enjoyed the beautiful climate and scenery.

Thursday's special event was lunch at the Marina City Club, where the group was joined by the famous composer and conductor, David Rose. Following lunch, they were treated to a sail aboard a yacht from the Marina.

On the last day of the Conference the group traveled to downtown Los Angeles, where they visited the unusual Institute of Fashion Design and Merchandising. Lunch was enjoyed "high in the sky" at the Occidental Tower Restaurant, located 32 floors above the city.

The week's activities were planned by the Spouses' Program Committee, chaired by Mrs. Bea Hopkinson. The Sunday reception in the Presidential Suite with President Charles E. An-

derson was an especially elegant event, most appreciated by all. As thanks for President Anderson's warm hospitality, he was invited to join the group for breakfast in the Plaza Room.

The interesting program and the many gifts and door prizes were made possible through the generosity of the sponsor, JVC, and by many other friends and well-wishers. Many gratifying comments were received from both the participants in the program and their spouses.



One facet of the Spouses' Program was a morning of square dancing.

# The Banquet

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The SMPTE Banquet was held on Friday evening, October 30, in the Los Angeles Ballroom of the Century Plaza. It was preceded by a cocktail reception sponsored by Sony Corp. Dinner was complemented by music, dancing, and entertainment. The entertainment was sponsored by Hazeltine Corp., and table wines were provided by Technicolor. Music was provided by the Jerry Jerome Orchestra, which was led by Joe Solda. The entertainment also included a cabaret portion by the Pied Pipers, who did a medley of big-band tunes. Of course, many people were responsible for the success of this event; if anyone should be singled out, however, it is Harry Teitelbaum, the Banquet Chairman.