

SMPTE Committees, Reports and Information for Members

The numerous reference features listed below are published annually. It is hoped that this information will prove useful to all members, but especially to newer ones, who may obtain from it a more effective understanding of the Society's scope and interests.

A complete roster of members will next be published in early 1974 in the *Directory for Members*. In the interim, lists of new members are published periodically in the *Journal*.

Officers of the Society	608
Officers of Sections and Student Chapters	610
Executive Committee	611
Administrative Committees	611
Engineering Committees	615
SMPTE Representatives to Other Organizations	616
Headquarters Staff	617
Awards Reference	626
Membership Report	618
Financial Reports	619
Constitution and Bylaws	620
Sustaining Members	627

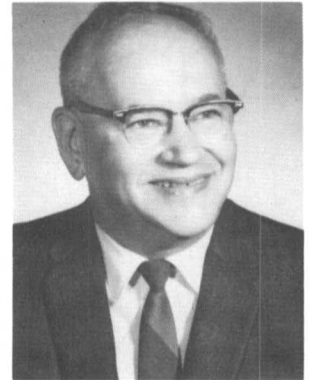
Officers and Governors of the Society



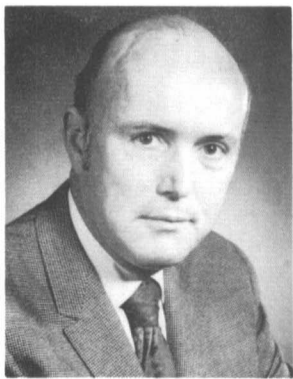
BYRON S. ROUDABUSH
President



KENNETH M. MASON
Executive Vice-President



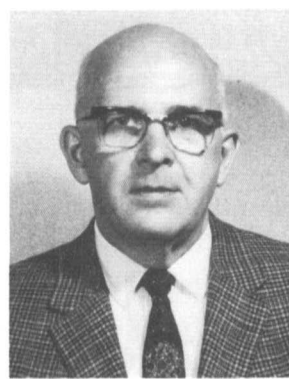
WILTON R. HOLM
Past-President



RODERICK T. RYAN
*Vice-President for
Photo-Science Affairs*



WILLIAM D. HEDDEN
Sections Vice-President



GERALD G. GRAHAM
Editorial Vice-President



A. EARL QUINN
*Vice-President for
Photo Instrumentation Affairs*



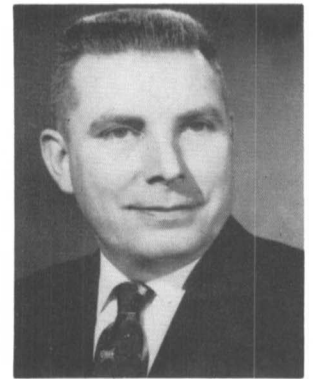
HARRY TEITELBAUM
Conference Vice-President



JOSEPH T. DOUGHERTY
Financial Vice-President



K. BLAIR BENSON
*Vice-President for
Television Affairs*



EDWARD H. REICHARD
*Vice President for
Motion-Picture Affairs*



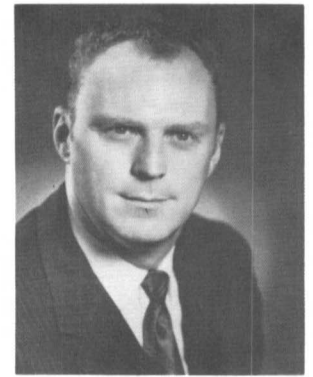
HERBERT E. FARMER
*Vice-President for
Educational Affairs*



W. T. WINTRINGHAM
Engineering Vice-President



RICHARD S. O'BRIEN
Secretary



ROBERT M. SMITH
Treasurer

Governors 1973-74



CHARLES E. ANDERSON



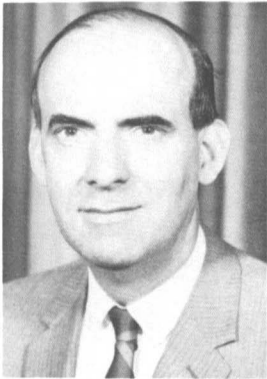
HAROLD J. EADY



JOHN J. KOWALAK



SHELDON NEMEYER



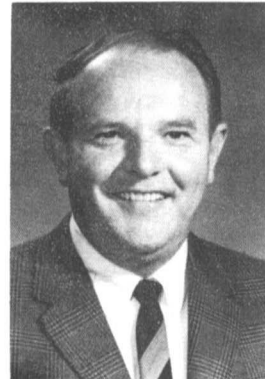
STANLEY F. QUINN



FREDERICK M. REMLEY, JR.



V. C. SHANER



ALLAN L. WILLIAMS



C. L. ZICHTERMAN

Governors 1972-73



ANTHONY D. BRUNO



ROBERT A. COLBURN



JOSEPH A. FLAHERTY



NEAL KEEHN



JOHN H. MAYNARD



GARLAND C. MISENER



HERBERT R. PILZER



FRED J. SCOBEY



EDWARD M. WARNECKE

Officers and Managers of Sections

ATLANTA

Chairman, Eugene Myler, Eastman Kodak Co., P.O. Box 4778, Federal Annex, Atlanta, GA 30302
Secretary-Treasurer, Hugo A. Bondy, WAGA-TV, P.O. Box 4207, Atlanta, GA 30302
Managers: Richard C. Hickman, Leigh H. Kelley, Joseph P. Mingioli, Charles R. Cannon, Jr., Edward N. Graham, Jr., James F. Langwell

AUSTRALIA

Chairman, P. H. Budden, Colorfilm Pty., Ltd., 35 Missenden Rd., Camperdown, N.S.W., Australia
Secretary-Treasurer, Arthur K. Hurley, Artransa Park Film Studio, Television Centre, Epping N.S.W., Australia 2121
Managers: Harrie N. Adams, Douglas V. Dove, Victor G. LePla, Eddy Berlage, James H. T. Fisher, Leslie R. Free

BOSTON

Chairman, Stephen A. Kallis, Jr., Digital Equipment Corp., 146 Main St., Maynard, MA 01754
Secretary-Treasurer, James B. DeWitt, Eastman Kodak Company, 40 William St., Wellesley, MA 02181
Managers: Roy Brubaker, Joseph F. G. Miller, Charles W. Wyckoff, Burton R. Clay, Joseph Rothberg, Sheldon M. Titcomb

CHICAGO

Chairman, Mathias J. Herman, Geo. W. Colburn Labs, Inc., 164 N. Wacker Drive, Chicago, IL 60606
Secretary-Treasurer, Byron L. Friend, Telecine Film Studios, Inc., 100 S. Northwest Highway, Park Ridge, IL 60068
Managers: Phyllis J. Abboud, Marvin W. Sadkin, Malcolm G. Townsley, Charles Eining, Harold L. Miller, Hartwell T. Sweeney

DALLAS/FT. WORTH

Chairman, Gary W. Jones, 3833 Turtle Creek Blvd., Apt. 2308, Dallas, TX 75219
Secretary-Treasurer, William R. Schock, KDTV Doubleday Broadcasting Co., Dallas, TX 75240
Managers: Duncan Broussard, George E. Krutilek, Raymond J. Urban, Lloyd Abernathy, Hugh V. Jamieson, Jr., Malcolm D. McCarty

DENVER

Chairman, Ronald K. Welsh, Davis Audio Visual Inc., 1801 Federal Blvd., Denver, CO 80204
Secretary-Treasurer, Leland D. Edelmaier, Metropolitan Television Co., 1044 Lincoln St., Denver, CO 80203
Managers: Robert E. Cook, Nick G. Jinacio, Edwin Vega, Jack T. Billings, Rolly Dalquist, John H. Seide

DETROIT

Chairman, Roland L. Renaud, Brown Renaud Assoc., Inc., 25 W. Long Lake Rd., Bloomfield Hills, MI 48013
Secretary-Treasurer, Leonard W. Edan, WWJ-TV, 622 Lafayette Blvd., Detroit, MI 48231
Managers: Ray Balousek, Richard W. Jorgensen, Alastair Martin, Ted H. Horn, Marvin W. Rahm, Verne W. Weber

FLORIDA/CARIBBEAN

Chairman, Richard Downey, Studio Center, Inc., 14875 N.E. 20 Ave., North Miami, FL 33161
Secretary-Treasurer, Clayton Keltly, Capital Film Laboratories, Inc., 1998 N.E. 150 St., North Miami, FL 33161
Managers: Frank J. Eberhardt, Eduardo Palmer, George Wilson, James D. Caron, Robert Miele, Clifford Poland

HOLLYWOOD

Chairman, Kenneth D. Erhardt, National Broadcasting Co., 3000 W. Alameda, Burbank, CA 91505
Secretary-Treasurer, Robert Gustafson, Consolidated Film Industries, Inc., 959 Seward St., Hollywood, CA 90038
Managers: Don V. Kloepfel, Fred J. Scobey, M. Warren Strang, Frank P. Clark, Herbert E. Farmer, Richard Stumpf

HOUSTON

Chairman, William D. Holford, ACA Recording Studios, Inc., 1017 Westheimer St., Houston, TX 77006
Secretary-Treasurer, Harvey Wheeler, Photographic Laboratories, 1926 West Gray, Houston, TX 77019
Managers: Charles C. Frazee, Ben Pearlman, Jack H. Tudor, Leonard E. Wolff, Patrick S. Coakley, Jr., Robert S. Strong

MONTREAL

Chairman, A. Dunstan Russell, Alex L. Clark Co., Ltd., 1070 Bleury St., Suite 805, Montreal, P.Q., Canada
Secretary-Treasurer, Jacques Lambert, 3275 Pricur St., E. Montreal-Nord, P.Q., Canada
Managers: Albert Chevalier, Robert B. Desrosiers, Arnold C. Schieman, J. T. Gillissie, Leonard A. Green, A. William Ross

NASHVILLE

Chairman, W. Russell McCown, WSM-TV Inc., 5700 Knob Rd., Nashville, TN 37209
Secretary-Treasurer, John F. Swanson, WLAC-TV, Inc., 474 James Robertson Parkway, Nashville, TN 37219
Managers: W. D. Powers, Joe H. Saxon, J. Orval Thomas, Thomas A. Barr, Andrew McMaster, Ronald Steward

NEW YORK

Chairman, Charles A. Ahto, Tape-Films, Inc., 619 W. 54 St., New York, NY 10019
Secretary-Treasurer, Edward J. Messina, Jr., American Broadcasting Co., 67 W. 66 St., New York, NY 10023
Managers: William R. Ahern, Calvin M. Hotchkiss, Irwin B. Freedman, R. Streeter, S. Bajak, K. Wulliman

OHIO

Chairman, Thomas Spence, Ohio Bell Telephone Co., 100 Erieview Plaza, 2 fl., Cleveland, OH 44114
Secretary-Treasurer, Matthew M. Bracic, WKYC-TV NBC, 1403 East 6 St., Cleveland, OH 44114
Managers: Jonathan Carter, Richard K. Phillips, Byrl L. Sims, Charley N. Clark, George F. Golden, Richard E. Mathys, Sr.

PACIFIC NORTHWEST

Chairman, Richard S. Althoff, King Film Lab, 1501 SW Jefferson St., Portland, OR 97201
Secretary-Treasurer, R. Richard Engstrom, GAF Corporation, P.O. Box 490, Portland, OR 97207
Managers: Fred A. Engel, Charles R. Wilkinson, Jr., Franklin D. Hood, Ralph Umbarger, Robert H. Plummer, Charles W. Rhodes

ROCHESTER

Chairman, George H. Gordon, Eastman Kodak Co., MP&EM Div., 343 State St., Rochester, NY 14650
Secretary-Treasurer, Hugh R. McNair, Motion Picture and Education Markets Div., Eastman Kodak Co., 343 State St. Rochester, NY 14650
Managers: Richard W. Bauer, George H. Gordon, Marvin I. Mindell, George S. Driscoll, Roderick T. MacFarlane, John W. Zuidema

SAN FRANCISCO

Chairman, Joseph A. Semmelmayr, Eastman Kodak Company, 3250 Van Ness Avenue, San Francisco, CA 94119
Secretary-Treasurer, Joseph Roizen, Telegen Corp., 4015 Fabian Way, Palo Alto, CA 94302
Managers: Charles E. Anderson, Barry J. Brose, Louis L. Pourciau, Harry J. Krall, Donald E. Lincoln, William A. Palmer

TORONTO

Chairman, Gordon W. Ballantyne, Applied Electronics Ltd., 299 Evans Ave., Toronto 18, Ont., Canada
Secretary-Treasurer, Ted Litwin, Canadian Kodak Sales, Ltd., 3500 Eglinton Ave., West, Toronto, Ontario, Canada
Managers: Carl Kruger, Glenn Robitaille, Murray Marshall, Stan Clinton, Bob McKinstry

WASHINGTON

Chairman, William A. Engstler, General Enterprises, Inc., P.O. Box 109, Kensington, MD 20795

Secretary-Treasurer, Dennis C. Pilgrim, Pilgrim Film Services, Inc., 2504 50 Ave., Tuxedo, Hyattsville, MD 20781
Managers: Harold E. Dixon, Murry C. Nelson, Jr., Charles M. Webster, Malcolm W. Burleson, Robert W. Hiltwine, Robert E. Miller

STUDENT CHAPTERS — ENGINEERING

COLUMBIA COLLEGE (CHICAGO)

Faculty Adviser, Fred R. Lasse, Columbia College, 540 N. Lake Shore Dr., Chicago, IL 60611
Chairman, Christopher Burritt, Secretary-Treasurer, David McAllister

COLUMBIA COLLEGE (LOS ANGELES)

Faculty Adviser, Andre F. Stojka, Columbia College, Department of Cinema, 925 North La Brea Avenue, Los Angeles, CA 90038
Chairman, Sheriden B. Bentley, Secretary-Treasurer, Charles Arias

EASTERN MICHIGAN UNIVERSITY

Faculty Adviser, Verne W. Weber, Eastern Michigan University, Ypsilanti, MI 48197
Chairman, Byron Vivian, Secretary-Treasurer, Donald Checots

NEW YORK INSTITUTE OF TECHNOLOGY

Faculty Adviser, Kenneth Tremaine, New York Institute of Technology, 135 West 70th St., New York, NY 10023
Chairman, Scott R. Foster

OHIO STATE UNIVERSITY

Faculty Adviser, Byrl L. Sims, Ohio State University, Department of Photography, 156 West 19 Ave., Columbus, OH 43210
Chairman, David Jones; Secretary-Treasurer, Francine Shuchat

ROCHESTER INSTITUTE OF TECHNOLOGY

Faculty Adviser, Dr. Ronald Francis, Rochester Institute of Technology, One Lomb Memorial Drive, Rochester, NY 14623
Chairman, David J. Blinks, Secretary-Treasurer, Jo Stale Kirkenaer

RYERSON POLYTECHNIC INSTITUTE

Faculty Adviser, Elvino Samo, Ryerson Polytechnical Institute, Photographic Arts Building, 122 Bond Street, Toronto, Ontario, Canada
Chairman, David Hood; Secretary-Treasurer, David Craig

SAN DIEGO STATE COLLEGE

Faculty Adviser, Dr. Roy Madsen, Radio/Television Dept. San Diego State College, San Diego, CA 92115
Chairman, Kenneth L. Hull, Secretary-Treasurer, John Talbot

UNIVERSITY OF SOUTHERN CALIFORNIA

Faculty Adviser, K. Kenneth Miura, Division of Cinema, University of Southern California, University Park, Los Angeles, CA 90007
Chairman, Douglas H. Knapp, Secretary-Treasurer, Richard W. Mitchell

STUDENT CHAPTERS — TECHNICAL

GERMAIN SCHOOL OF PHOTOGRAPHY

Faculty Adviser, Dr. Milton W. Willenson, Germain School of Photography, 325 Broadway, New York, NY 10007
Chairman, Anthony J. Daddio, Secretary-Treasurer, Joseph Westerfield

SMPTE Executive Committee

Byron S. Roudabush, *Chairman*

Joseph T. Dougherty Gerald G. Graham William D. Hedden Wilton R. Holm Kenneth M. Mason W. T. Wintringham

SMPTE Administrative Committees

MEMBERSHIP

MEMBERSHIP. *To interest and assist qualified individuals in joining the Society.*

Herbert R. Pilzer, *Chairman*, Motion Picture Enterprises, Inc., Tarrytown, NY 10591

INTERNATIONAL MEMBERSHIP CHAIRMAN

Norbert Schmitz, Kodak A. G., 7000 Stuttgart-Wangen, Hedelfingerstrasse, Germany

SECTION MEMBERSHIP CHAIRMEN

ATLANTA, William H. White
AUSTRALIA, Victor G. LePla
BOSTON, James DeWitt
CHICAGO, Harold Miller
DALLAS-FT. WORTH,
Duncan Broussard
DENVER, Carl R. Dalquist
DETROIT, Richard O. Painter

FLORIDA-CARIBBEAN, Clifford Poland
HOLLYWOOD, E. M. Whiting, Jr.
HOUSTON, John N. Gekas
MONTREAL, Arnold C. Schieman
NASHVILLE, Robert D. Fussell
NEW YORK, Samuel Bunchez,
Marian Fuller

OHIO, Jonathan Carter
PACIFIC-NORTHWEST, R. Richard Engstrom
ROCHESTER, John L. Baptista
SAN FRANCISCO, William Herndon
TORONTO, Karl Kruger
WASHINGTON, D.C., Milton D. Jones

ADMISSIONS. *To pass upon all applications for membership in the Active grade, applications for transfer to Active grade, and to review the Student, Jr. Associate and Associate membership lists periodically for possible transfer to the Jr. Associate/Associate/Active grade respectively. The duties of each committee are limited to applications and transfers originating in the geographic area covered.*

Burton Smith, *National Chairman*, Cine-Chrome Labs., Inc., 4075 Transport St., Palo Alto, CA 94303

Harold J. Freedman, *Chairman, East*, 24 Duxbury Rd., Great Neck, NY 11023
Robert E. Johnson John J. Kowalak

Richard S. O'Brien

Harold W. Kinzle, *Chairman, Central*, 1073 Bonita Dr., Park Ridge, IL 60068
Allen F. Hilliard William A. Koch

Cornelius L. Zichterman

Leo Dincer, *Chairman, West*, 332 Golden Gate Ave., San Francisco, CA 94102
Norman H. Grant Raymond F. Grant

Edgar A. Schuller, *Chairman, International*, 90-05 63rd Ave., Rego Park, NY 11374
Irwin B. Freedman Frederick F. Sack

Neal Keehn

John A. Pistor

SUSTAINING MEMBERSHIP. *To solicit new Sustaining Members and thereby obtain adequate financial support required by the Society to carry on its technical and engineering activities.*

Joseph T. Dougherty, *Chairman*, 472 Vassar Place, Brick Town, NJ 08723

Joseph A. Flaherty
Arthur Florman

Neal Keehn
John Pistor

Richard Smith
Sidney P. Solow

Henry Ushijima
Edward M. Warnecke

PUBLICATIONS

BOARD OF EDITORS. *To pass upon the suitability of all manuscripts submitted for publication, accepting or rejecting the material on the basis of technical merit.*

Pierre Mertz, *Chairman*, 66 Leamington St., Lido Long Beach, NY 11561

C. J. Bartleson	Carlos H. Elmer	Don V. Kloeppel	Waldemar J. Poch	Israel Switzer	John W. Wentworth
Harlan L. Baumbach	Charles R. Fordyce	Glenn E. Matthews	R. E. Putman	Woodlief Thomas, Jr.	Deane R. White
Leo Beiser	John L. Forrest	Manfred G.	Stanley F. Quinn	R. T. Van Niman	R. D. Whitmore, Jr.
Gerald M. Best	John G. Frayne	Michelson	Roxanne O'Malley	Petro Vlahos	A. D. Williams
Elmer A. Bowen, Jr.	A. M. Gundelfinger	Leslie J. Murch	Ray	Richard A. Walker	W. T. Wintringham
Berlyn Brixner	Stephen A. Kallis, Jr.	H. W. Pangborn	Rodger J. Ross	Pablo Weinschen-	Harold Wright
J. S. Courtney-Pratt	Clyde R. Keith	Bernard D. Plakun	Sidney P. Solow	Tabernero	Charles W. Wyckoff
Bernard E. Drimmer					

INTERNATIONAL PAPERS. *To solicit papers for national conferences.*

Leslie H. Holmes, *Chairman*, Canadian Broadcasting Corp., P.O. Box 8478, Ottawa, Ont., K1G, 3J5, Canada

Western Hemisphere (except United States)

ARGENTINA: José Canals, Kodak Argentina Ltd., Viamonte 1123, Casilla de Correo Central 5621, Buenos Aires
BRAZIL: Jean Gatti, Kodak Brasileira, Comercio E Industria Ltda., Av. Brigadeiro Luiz Antonio, 453, Caixa Postal, 225, Sao Paulo
CANADA: Hellmut Berger, Baton Broadcasting Ltd., 1550 McCowan St., Box 9, Agincourt, Ont.
COLOMBIA: Pablo Carrasco, Kodak Colombiana Ltd., Carrera 13, No. 18-66, Bogota
PERU: T. J. Cooke, Kodak Peruana, Ltd., Pasaje Nueva Rosita 160, Casilla 2557, Lima

Europe

DENMARK: Michael M. Jacobsen, Filmtech Copenhagen, 2920 Foraarsvej 13, Charlottenlund
FRANCE: Marcel Terrus, Eclair, 12 Rue Gaillon, Paris 2
GERMANY: Dr. Adolf Kochs, Perutz Photowerke GmbH, Kistlochstrasse 75, Munich
GREAT BRITAIN: B. J. Davies, Motion Picture Div., Kodak Ltd., P.O. Box 66, Kodak House, Station Rd., Hemel Hempstead, Herts
ITALY: Dr. Mario Calzini, Tecnostampa, 38 Via Albalonga, Rome 40
THE NETHERLANDS: E. J. Verschuere, Steynlaan 9, Hilversum
NORWAY: H. J. Wilhelmsen, J. L. Nerlien A/S, Tollbugaten 35, Oslo
SPAIN: Javier Boter, Kodak S.A., C/Irun 15, Madrid
SWEDEN: Stellan Dahlstadt, Nysatravagen 12 B Lidingo 2
SWITZERLAND: Horst Escher, Kodak S.A., 50, Avenue de Rhodanie, CH-1000 Lausanne
UNION OF SOVIET SOCIALIST REPUBLICS: V. G. Komar, Director of NIKFI, Leningradsky Pr. 47, Moscow, A-167

Africa

GHANA: J. K. Asare, Ghana Broadcasting Corp., Broadcasting House, P.O. Box 1633, Accra
KENYA: Robert Kingston Davies, P.O. Box 14344, Nairobi
RHODESIA: Theo Otto, Central Film Laboratories, 34 Central Ave., Salisbury
SOUTH AFRICA: Edward C. Howes, South African Screen Productions (Pty.) Ltd., P.O. Box 2787, Johannesburg
ZAMBIA: Walter L. Vollum, Kodak (Zambia) Ltd., 13 King George Ave., P.O. Box 1700, Ndola

Asia

INDIA: H. Krishnan, Kodak Ltd., P.O. Box 343, Dr. Dadabhai Naoroji Road, Fort Bombay 1
JAPAN: Kiyohiko Shimasaki, 23-15 Shinden 3, Ichikawa-shi, Chiba-ken
LEBANON: G. Atayek, Kodak (Near East), Inc., Rizk-Helou Bldg., Rond-Point Kantari, P.O. Box 761, Beirut
PHILIPPINES: Francisco Tan, Kodak Philippines Ltd., P.O. Box 422, Manila
SINGAPORE: Wilson Richards, Kodak (Malaya) Ltd., 305 Alexandra Rd., Box 687, Singapore 3
TAIWAN: T. J. Hwang, Fu Ter Hong Trading Co., 135 South Chungking Rd., 1st Sec., P.O. Box 370, Taipei
THAILAND: Suchin Suchitbharabitya, Kodak (Far East) Ltd., 16 Soi Sub, Bangkok

TUTORIAL PAPERS. *To seek tutorial articles on subjects about which members are best qualified to write or to encourage the preparation of such articles by others.*

Arnold C. Schieman, *Chairman*, National Film Board of Canada, Box 6100, Montreal 3, P.Q., Canada

PROGRESS. *To prepare an annual report on world progress in the motion-picture, television and photo-instrumentation industries.*

Kenneth M. Mason, *Chairman*, Eastman Kodak Company, 6706 Santa Monica Blvd., Hollywood, CA 90038

M. J. Ashley	R. Fehrmann	Ahmed Hegab	Rudolf Kingslake	Richard E. Putman	A. C. Schieman
Michael Barlow	H. Fix	Kenji D. Hiwatashi	W. I. Kisner	A. E. Quinn	Peter Scow
E. C. Barocla	K.-F. Gondesens	Eric Horvitch	Don V. Kloepfel	E. H. Reichard	C. Soulé
R. S. Beeler	Geoffrey Goodship	J. P. Houguenada	Paul J. Mutter	Michael Rettinger	M. H. Stevenson
S. L. Bendell	K. Gopal	A. K. Hurley	D. B. Nihalsingha	Alboghassen Rezai	M. Tadman
B. J. Davies	M. A. Hankins	Kiichi Iwabuchi	Sri Lanka	V. Rudakov	Carlos Valasco C.
Harry Enequist	G. Hansen	Stanley Khouri	J. W. Ogilvic	R. T. Ryan	Jan W. Varossieau
H. E. Farmer	R. W. Harris	Tsutomu Kimura	Y. Peless	Arne Sanfridsson	L. E. West

ADVISORY

INTERNATIONAL RELATIONS COMMITTEE. *To investigate in depth the role of the Society in the international aspects of motion pictures, television and the allied arts and sciences.*

Robert O. Gale, *Co-Chairman (Domestic)*, Eastman Kodak Co., 343 State St., Rochester, NY 14650

Hans C. Wohlrab, *Co-Chairman (Overseas)*, 1 Berlin 28-Frohnau, Zeltingerstrasse 68, Germany

Roger J. Beaudry	Kichi Iwabuchi	John A. Pistor	William H. Smith
Gerald G. Graham	Fred Orain	Dennis A. Robertson	C. B. B. Wood

FINANCIAL ADVISORY. *To recommend to the President and the Board of Governors plans and policies relative to the Society's long-range financial needs.*

Joseph T. Dougherty, *Chairman*, 472 Vassar Pl., Brick Town, NJ 08723

Kenneth M. Mason Frank M. McGeary Robert M. Smith

PUBLIC RELATIONS ADVISORY. *To review the public relations activities of the Society and recommend long-range plans to the President.*

Neal Keehn, *Chairman*, DeLuxe General, Inc., 1546 N. Argyle Ave., Hollywood, CA 90028

Roger T. Beaudry	Gerald G. Graham	Kenneth M. Mason	Edward H. Reichard
K. Blair Benson	Wilton R. Holm	Herbert R. Pilzer	William H. Smith

EDUCATIONAL ADVISORY COMMITTEE.

Herbert E. Farmer, *Chairman*, University of Southern California, Division of Cinema, University Park, Los Angeles, CA 90007

Frank P. Clark	John Flory	O. S. Knudsen	John R. Sullivan
Raymond Fielding	Neal Keehn	Reid H. Ray	Robert W. Wagner

PUBLICATIONS ADVISORY. *To review the publication policy of the Society in the light of motion-picture, television and photo-instrumentation progress and in respect to the changing interests of the membership with a view to recommending long-range publication policies to the President and the Board of Governors.*

Gerald G. Graham, *Chairman*, National Film Board of Canada, Box 6100, Montreal 3, P.Q., Canada

J. S. Courtney-Pratt	Leslie H. Holmes	Glenn E. Matthews	Garland C. Misener	Reginald S. Rekert	R. D. Whitmore, Jr.
Carlos H. Elmer	William G. Hyzer	Pierre Mertz	Richard E. Putman	Allan L. Williams	W. T. Wintringham
Herbert E. Farmer					

HONORS AND AWARDS

E. I. du PONT GOLD MEDAL AWARD. *To recommend to the Board of Governors a candidate who has made outstanding contributions in the development of new techniques or equipment which have contributed to the improvement of the engineering phases of instrumentation and/or high-speed photography.*

Richard O. Painter, *Chairman*, General Motors Proving Ground, Milford, MI 48042

D. Max Beard Donald L. Clayton Carlos H. Elmer William G. Hyzer

EASTMAN KODAK GOLD MEDAL AWARD. *To recommend to the Board of Governors a candidate who has made outstanding contributions which lead to new or unique educational programs utilizing motion pictures, television, high-speed and instrumentation photography or other photographic sciences.*

Herbert E. Farmer, *Chairman*, University of Southern California, Division of Cinema, University Park, Los Angeles, CA 90007

Raymond E. Fielding Neal Keehn Orlando S. Knudsen Robert W. Wagner

FELLOW MEMBERSHIP. *To consider qualifications of Active members as candidates for elevation to Fellow, and to submit such nominations to the Qualifications Committee.*

Wilton R. Holm, *Chairman*, Association of Motion Picture and Television Producers, Inc., 8480 Beverly Blvd., Hollywood, CA 90048

Charles A. Alto	Richard Downey	Mathias J. Herman	W. Russell McCown	Edward H. Reichard	Robert M. Smith
Richard S. Althoff	Harold J. Eady	William D. Holford	Garland C. Misener	F. M. Remley, Jr.	Thomas Spence
Charles E. Anderson	William A. Engstler	Charles A. Jantzen	Eugene Myler	Roland L. Renaud	Harry Teitelbaum
G. W. Ballantyne	Kenneth D. Erhardt	Gary W. Jones	Sheldon Nemeyer	Byron S. Roudabush	Petro Vlahos
K. Blair Benson	Herbert E. Farmer	Stephen A. Kallis, Jr.	Richard S. O'Brien	A. Dunstan Russell	E. M. Warnecke
Anthony D. Bruno	Joseph A. Flaherty	Neal Keehn	Herbert R. Pilzer	Roderick T. Ryan	Roland K. Welsh
P. H. Budden	George Gordon	John J. Kowalak	Paul H. Pree	Fred J. Scobey	Allan L. Williams
Robert A. Colburn	Gerald G. Graham	Kenneth M. Mason	A. Earl Quinn	J. A. Semmelmayer	W. T. Wintringham
Fred H. Detmers	William D. Hedden	John H. Maynard	Stanley F. Quinn	Vaughn C. Shaner	C. L. Zichterman
Joseph T. Dougherty					

JOHN GRIERSON INTERNATIONAL TECHNICAL AWARD. To recommend to the Board of Governors a candidate who has made outstanding contributions to the science and technology of equipment, processes or techniques related primarily to the production of documentary motion pictures.

Roger J. Beaudry, *Chairman*, Bellevue-Pathé, Ltd., 9 Brockhouse Rd., Toronto 14, Ontario, Canada
C. Russell Dupree Gerald G. Graham Garland C. Misener Reid H. Ray

HONORARY MEMBERSHIP. To recommend to the Board of Governors candidates whose basic contributions to the motion picture and/or television industries represent a substantial forward step of broad usefulness to the industries.

Roland J. Zavada, *Chairman*, Eastman Kodak Co., Film Technical Services Div., Kodak Park, Bldg. 6, Rochester, NY 14650
Wayne E. Hunn Pierre Mertz Reid H. Ray Rodger J. Ross

JOURNAL AWARD. To recommend to the Board of Governors the author or authors of the outstanding paper originally published in the *JOURNAL* of the Society during the previous calendar year; and to recommend other papers, not to exceed five, for Honorable Mention. To recommend also to the Board of Governors for the Student Member award the author or authors of the outstanding paper prepared and submitted by a Student Member during the school year which terminates in the calendar year in which the award is given.

Richard E. Putman, *Chairman*, Philips Broadcast Equipment Corp., One Philips Parkway, Montvale, NJ 07645
Frank P. Brackett, Jr. Leslie H. Holmes Deane R. White Daan Zwick

HERBERT T. KALMUS GOLD MEDAL AWARD. To recommend to the Board of Governors a candidate who has made outstanding contributions in the development of color films, processing, techniques or equipment useful in making color motion pictures for theater or television use.

William D. Hedden, *Chairman*, Calvin Communications, Inc., 1105 Truman Rd., Kansas City, MO 64106
Joseph A. Flaherty Anthony Frothingham Fred J. Scobey Sidney P. Solow

PROGRESS MEDAL AWARD. To recommend to the Board of Governors a candidate who has made outstanding technical contributions to the progress of engineering phases of the motion picture and/or television industries.

William T. Wintringham, *Chairman*, 56 Elmwood Ave., Chatham, NJ 07928
K. Blair Benson J. S. Courtney-Pratt Wesley Hanson Edward H. Reichard

DAVID SARNOFF AWARD. To recommend to the Board of Governors a candidate who has made outstanding contributions to the development of new techniques or equipment which have contributed to the improvement of the engineering phases of television, including theater television.

Frederick M. Remley, Jr., *Chairman*, University of Michigan, 310 Maynard, Ann Arbor, MI 48108
Hugo A. Bondy John F. X. Browne Arch C. Luther, Jr. Daniel R. Wells

SAMUEL L. WARNER AWARD. To recommend to the Board of Governors a candidate who has made 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.

Norwood L. Simmons, *Chairman*, 1950 Camino Loma Verde, Vista, CA 92083
George R. Groves Sol Halprin Sidney P. Solow Gordon E. Sawyer

OTHER ADMINISTRATIVE COMMITTEES

HISTORICAL AND MUSEUM. To collect facts and assemble data relating to the historical development of the motion-picture, television and photo-instrumentation industries, to encourage pioneers to place their work on record in the form of papers for publication in the *JOURNAL*, and to secure equipment and materials of historic significance for placement in suitable depositories.

Hans C. Wohlrab, *Chairman*, 1 Berlin 28, Frohnau, Zeltlingerstrasse 68, Germany
Walter Clark John Kuiper Glenn E. Matthews Kemp Niver Robert Wagner

NOMINATING. To recommend nominations to the Board of Governors for annual election of officers and governors.

Wilton R. Holm, *Chairman*, Association of Motion Picture and Television Producers, Inc., 8480 Beverly Blvd., Hollywood, CA 90048
Charles F. Anderson Jack P. Hall Edward J. Messina, Jr. Byron S. Roudabush
Gerald G. Graham William A. Koch Richard E. Putman Cornelius Zichterman

RETIREMENT PLAN ADMINISTRATIVE. To administer the SMPTE Employees' Retirement Plan.

G. Carleton Hunt, *Chairman*, DeLuxe General, Inc., 1546 N. Argyle Ave., Hollywood, CA 90028
Victor H. Allen Denis A. Courtney

REVISIONS COMMITTEE ON CONSTITUTION, BYLAWS AND ADMINISTRATIVE PRACTICES. To review and recommend to the Board of Governors revisions in the Constitution, Bylaws and Administrative Practices of the Society.

Richard S. O'Brien, *Chairman*, CBS Television Network, 51 West 52 St., New York, NY 10019
Wilton R. Holm Kenneth M. Mason Edward H. Reichard Rodger J. Ross
John J. Kowalak E. B. McGreal Frederick M. Remley, Jr. Deane R. White

SMPTE Engineering Committees

The chairman and committee members listed below serve under the administration of W. T. Wintringham, Engineering Vice-President, until the expiration of his term of office, December 31, 1973.

Inquiries regarding committee projects or membership should be directed to Alex E. Alden, Staff Engineer, at Society Headquarters.

COLOR. *To make recommendations and prepare specifications for the operation, maintenance, and servicing of color motion-picture processes, accessory equipment, studio lighting, selection of studio set colors, color cameras, color motion-picture films, and general color photography.*

F. H. Detmers, *Chairman*, Technicolor, Inc., 6311 Romaine St., Hollywood, CA 90038

J. G. Baer	L. M. Dearing	Bruce Helgerson	G. C. Misener	R. J. Ross	J. M. Waner
E. P. Bertero	K. D. Erhardt	W. R. Holm	N. K. Morong	F. J. Scobey	C. B. B. Wood
Elliot Bliss	R. A. Eynard	L. H. Holmes	Arthur Nalven	R. M. Smith	Paolo Zaccarian
F. P. Brackett	Gideon Fiat	J. J. Kowalak	Alex Quiroga	R. G. I. Verbrughe	D. M. Zwick
Robert Brower	J. P. Hall	R. C. Martin	E. H. Reichard		

FILM DIMENSIONS. *To make recommendations and prepare specifications on those film dimensions which affect performance and interchangeability, and to investigate new methods of cutting and perforating motion-picture film in addition to the study of its physical properties.*

G. C. Misener, *Chairman*, 7123 Winterwood Lane, Dallas, TX 70240

V. D. Armstrong	F. H. Detmers	J. M. Ehrenberg	Bruce Helgerson	V. L. Meier	A. J. Miller
F. P. Brackett	C. R. Dupree	L. L. Endelman	J. R. Hester	M. G. Michelson	R. J. Ross
I. B. Current					

FILM PROJECTION PRACTICE. *To make recommendations and prepare specifications which will aid in the attainment of good quality in showing motion-picture films in theaters from studies of relevant engineering practices regarding projection equipment and conditions, projection rooms, film storage facilities, stage arrangements, screen dimensions, placement and characteristics, brightness of the motion-picture screen image, and the effect of ambient light.*

P. H. Preo, *Chairman*, Eastman Kodak Co., Bldg. 35, Kodak Park Works, Rochester, NY 14650

C. C. Adams	R. O. Endres	W. E. Jenkins	F. J. Kolb, Jr.	E. J. Nelson	R. R. E. Pulman
J. G. Baer	R. S. Freeman	J. J. Kelly	K. J. Lang	Vittore Nicelli	F. H. Riffle
G. M. Berggren	C. L. Greene	A. R. Kingsbury	Al Mayer	B. F. Perry	J. W. Servics
Al Boudouris	D. F. Haworth	D. V. Kloepfel	T. J. McCormick	Dean Phillips	A. G. Smith
J. J. Burlinson, Jr.	R. G. Herbst	C. F. Knopp	W. G. Nafash	M. E. Pickrell, Jr.	L. M. Wutke
L. W. Davee	Y. G. Hurd	J. J. Kohler			

PHOTO-INSTRUMENTATION. *To further the development and utilization of instruments and techniques associated with instrumentation and high-speed photography.*

C. A. Jantzen, *Chairman*, Photographic Analysis Co., 190 Alps Rd., Wayne, NJ 07470

D. T. Bach	L. W. Desfosses	W. C. Griffin	J. L. Joseph	R. O. Painter	D. J. Southard
D. L. Clayton	C. H. Elmer	R. W. Guay	J. R. Kronemyer	A. E. Quinn	J. H. Waddell
J. D. Clayton	L. L. Endelman	Robert Herden	Leonard Lessin	J. M. Scott	C. M. Wall
D. L. Crow	Ronald Gies	W. G. Hyzer	R. J. Millikin	R. D. Shoberg	

LABORATORY PRACTICE. *To make recommendations and prepare specifications for the operation, maintenance, and servicing of motion-picture printers, processing machines, inspection projectors, splicing machines, film-cleaning and treating equipment, rewinding equipment, any type of film-handling accessories, methods, and processes which offer increased efficiency and improvements in the photographic quality of the final print.*

R. A. Colburn, *Chairman*, Geo. W. Colburn Laboratory, Inc., 164 N. Wacker Dr., Chicago, IL 60606

V. D. Armstrong	J. M. Ehrenberg	Bruce Jamieson	M. G. Michelson	W. M. Reid	R. M. Smith
F. P. Brackett	D. T. Focer	H. W. Kinzle	C. G. Misener	Byron Roudabush	W. H. Smith
S. H. Bunchez	V. G. Frith	J. J. Kowalak	R. A. Morris	A. C. Schieman	J. L. Wassell
O. E. Cantor	J. P. Hall	C. F. LoBalbo	W. W. Morris	E. A. Schuller	Ralph Westfall
W. D. Carter	W. D. Hedden	F. M. McGeary	E. H. Reichard	F. J. Scobey	R. D. Whitmore, Jr.
F. H. Detmers	Denis Howe	V. L. Meier			

16MM AND 8MM MOTION PICTURES. *To make recommendations and prepare specifications for 16mm and 8mm cameras, 16mm sound recorders and sound-recording practices, 16mm and 8mm printers and other film laboratory equipment and practices, 16mm and 8mm projectors, splicing machines, screen dimensions and placement, loudspeaker output and placement, preview or theater arrangement, test films, and the like, which will improve the quality of 16mm and 8mm motion pictures.*

G. H. Gordon, *Chairman*, Eastman Kodak Co., Motion Picture and Education Markets Div., 343 State St., Rochester, NY 14650

R. E. Birr	H. E. Farmer	R. G. Herbst	J. L. Mcades	J. J. Prevel	E. A. Schuller
S. H. Bunchez	J. L. Forrest	A. E. Jackson	Cy Miller	N. J. Rainone	F. L. Windsor
L. J. Bunting	H. J. Freedman	Bruce Jamieson	L. A. Morgenstern	W. M. Reid	Raymond Wyman
R. A. Colburn	D. C. Gilkeson	G. F. Krtous	W. H. Offenhauser,	L. H. Schank	C. L. Zichterman
H. C. Deck	N. P. Goldberg	R. N. McFadden	Jr.	A. C. Schieman	J. W. Zuidema
Murray Fallen	W. D. Hedden	F. M. McGeary	R. S. Perry		

SOUND. *To make recommendations and prepare specifications for the operation, maintenance, and servicing of motion-picture film, sound recorders, recorders and reproducing equipment, methods of recording sound, sound-film processing, and the like, to obtain means of standardizing procedures that will result in the production of better uniform quality sound in the theater.*

Petro Vlahos, *Chairman*, Association of Motion Picture & Television Producers, 8480 Beverly Blvd., Hollywood, CA 90048

C. C. Adams	J. P. Corcoran	H. J. Freedman	R. G. Hufford	Lennart Ljungberg	B. F. Perry
Walter Bach	J. B. Current	J. J. Geluk	Fred Hynes	R. C. Lovick	F. E. Pontius
R. J. Beaudry	W. S. Ferris	A. P. Green	Joseph Kelly	J. G. McKnight	L. H. Schank
D. R. Brewer	R. R. Foley	Len Green	F. J. Kolb, Jr.	H. T. Perkins	Michael Strong

TELEVISION. *To make recommendations and prepare specifications on all phases of film equipment used in television broadcasting. Further, to make recommendations and prepare specifications on all phases of the production, processing and use of films made for testing of and transmission over a television system.*

J. A. Flaherty, *Chairman*, CBS Television Network, 51 W. 52 St., New York, NY 10019

E. P. Ancona, Jr.	Elliot Bliss	J. L. Forrest	D. N. James	R. E. Putman	D. R. Wells
G. W. Bartlett	G. D. Brill	Rodolphe Fournier	J. G. Jones	F. M. Remley, Jr.	C. B. B. Wood
K. B. Benson	R. J. Butler	D. C. Gilkeson	H. R. Lipman	I. I. Ross	Paolo Zaccarian
Max Berry	L. E. DeMarsh	F. J. Haney	A. W. Malang	R. J. Ross	D. M. Zwick
E. P. Bertero	C. H. Evans	N. L. Hobson			

TELEVISION STUDIO LIGHTING. *To make recommendations and prepare specifications on all phases of lighting employed in television studios. The scope and membership of this committee are currently under review.*

VIDEO TAPE RECORDING. *To prepare standards and good engineering practices for the construction, adjustment, operation and measurement of video tape recording and reproducing equipment and for those video tape dimensions or other characteristics which affect performance and interchangeability.*

C. E. Anderson, *Chairman*, Ampex Corp., Mail Stop 3-46, 401 Broadway, Redwood City, CA 94063

G. W. Bartlett	F. R. Faist	P. E. Fish	R. T. Monroe	F. M. Remley, Jr.	Merle Thomas
E. K. Dahlin	A. H. J. Fawcett	F. J. Haney	R. E. Putman	N. C. Ritter	H. W. Town
Sidney Davidson	J. J. Fiori	R. N. Hurst	M. W. Rahm	Elmer Smalling, III	Paolo Zaccarian

STANDARDS. *To survey constantly all engineering phases of motion-picture production, distribution, and exhibition, to make recommendations and prepare specifications that may become proposals for ANSI Standards. This committee should follow carefully the work of all other committees on engineering and may request any committee to investigate and prepare a report on the phase of motion-picture engineering to which it is assigned.*

F. M. Remley, Jr., *Chairman*, University of Michigan, 310 Maynard St., Ann Arbor, MI 48108

Chairmen of Engineering Committees

C. E. Anderson	J. A. Flaherty	G. C. Misener
R. A. Colburn	G. H. Gordon	P. H. Preo
F. H. Detmers	C. A. Jantzen	Petro Vlahos

Members at Large

K. B. Benson	F. J. Kolb, Jr.	Ralph Westfall
G. A. Chambers	A. E. Quinn	W. T. Wintringham
H. E. Farmer	E. H. Reichard	R. J. Zavada

SMPTE Representatives to Other Organizations

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

Acoustical Technical Advisory Board; Electrical and Electronics Technical Advisory Board; Photographic Technical Advisory Board; Member Body Council:
W. T. Wintringham

AMERICAN NATIONAL STANDARDS COMMITTEES

Combined Visual-Aural Magnetic Recording for Television, C98:

F. M. Remley, Jr., *Chairman*, University of Michigan, 310 Maynard St., Ann Arbor, MI 48108
A. E. Alden, *Secretary*
C. E. Anderson

Motion Pictures, PH22:

R. J. Zavada, *Chairman*, Eastman Kodak Co., Paper Service Div., Kodak Park, Building 10, Rochester, NY 14650
A. E. Alden, *Secretary*
W. T. Wintringham

Acoustics, S1: Petro Vlahos

Photographic Processing, PH1: C. F. LoBalbo

Electrical Terms, C42: R. N. Hurst, A. E. Alden (Alt.)

Audio Visual, PH7: H. E. Farmer *Sound Recording, S1:* R. C. Lovick, Petro Vlahos *Photo Lamps, C78-5:* R. E. Birr, A. E. Alden (Alt.)

EDUCATIONAL MEDIA COUNCIL

H. E. Farmer R. W. Wagner D. A. Courtney (Alternate)

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

Standards Committee: F. M. Remley, Jr.

INTERNATIONAL COMMISSION ON ILLUMINATION (C.I.E.)

U.S. National Committee: F. P. Bertcro W. T. Wintringham D. M. Zwick

INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) SUBCOMMITTEE 60B ON VIDEO TAPE RECORDING

The technical guidance required by the U.S. National Committee to establish the American position on IEC/SC 60B matters is established by the technical advisor with guidance from the Technical Advisory Group.

Technical Advisor to U.S. National Committee for the work of IEC/SC 60B: A. E. Alden

Technical Advisory Group: A. E. Alden, C. E. Anderson, R. N. Hurst, F. M. Remley, Jr., W. T. Wintringham

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION TECHNICAL COMMITTEE (36) ON CINEMATOGRAPHY

The American position is established and recommended to the American National Standards Institute by the Technical Advisory Group.

Technical Advisory Group: A. E. Alden, G. A. Chambers, F. J. Kolb, Jr., F. M. Remley, Jr., W. T. Wintringham, R. J. Zavada

INTERNATIONAL RADIO CONSULTATIVE COMMITTEE (CCIR) STUDY GROUP X ON BROADCASTING

A. C. Luther, D. M. Zwick

INTER-SOCIETY COLOR COUNCIL

W. T. Wintringham, *Chairman of Delegation**

E. P. Ancona, Jr.

J. G. Baer

L. E. DeMarsh

W. B. Reese*

J. P. Weiss*

*Voting delegates

E. P. Bertero

F. H. Detmers

F. J. Scobey

D. M. Zwick

JOINT COMMITTEE ON INTER-SOCIETY COORDINATION (JCIC) W. T. Wintringham

This committee was formed some years ago to coordinate the technical activities of mutual interest among the Institute of Electrical and Electronics Engineers, National Association of Broadcasters, Electronic Industries Association, National Cable Television Association and the Society of Motion Picture and Television Engineers.

JCIC AD HOC COMMITTEE ON COLOR TELEVISION STUDY

To examine the entire color television system from original scene through all of the equipment to the picture viewed in the home; to determine the origin of significant deviations from satisfaction of the received picture; and to allocate to appropriate existing organizations specific questions for resolution.

W. T. Wintringham, *Administrative Representative*; K. B. Benson, *Chairman*; A. E. Alden, *Secretary*

SMPTE Representatives: R. T. Monroe, D. M. Zwick

JCIC AD HOC COMMITTEE ON THE STUDY OF TELEVISION SOUND

To examine the entire television system from original production to the sound heard in the home, to identify areas of possible improvement, and to assign to appropriate organizations specific questions for resolution.

W. T. Wintringham, *Administrative Representative*; D. R. Wells, *Chairman*; A. E. Alden, *Secretary*

SMPTE Representatives: C. C. Adams, F. M. Remley, Jr., D. R. Wells

Headquarters Staff

Executive Director, Denis A. Courtney
Secretary to Executive Director & Conference Programs Secretary, Janet H. Hruska

Editorial and Conferences

Editor, Victor H. Allen
Assistant Editor, Thomas E. King
Editorial Assistant, Rae Hargrave
Production Editor, Florence Nadler
Secretary, Selma Feller

Advertising Manager & Conference Coordinator, Jeffrey B. Friedman
Secretary, Terry Kiley

Engineering

Staff Engineer, Alex E. Alden
Assistant Staff Engineer, Pablo Weinschenk-Fabernero
Secretary, Elizabeth M. Migliore
National Standards Coordinator, Peggy Sullivan
International Standards Coordinator, Peggy Caggiano
Test Film Engineer, Arthur W. Hansen
Assistant: Michael R. Russo
Secretary: Lene Hehir

Membership & Subscriptions

Membership Secretary, Josephine LaVecchia
Subscriptions Secretary, Barbara McMahan

Accounting

Chief Accountant, _____
Junior Accountant, Esther M. Adler
Bookkeeper, Betty Pappas

Office Assistant, John Ferber
Receptionist, Audrey E. Diaz

Membership Report—Year Ended December 31, 1972

	Honorary	Life Fellow	Fellow	Life Member	Active	Associate	Junior Associate	Student	Total
Membership 1/1/72	10	71	308	42	3467	2446	402	545	7291
New Members					324	161	120	427	1032
Reinstatements					22	11	2	1	36
Total	10	71	308	42	3813	2618	524	973	8359
Resignations			2		67	95	10	6	180
Deceased		2	2	1	16	4			25
Total	10	69	304	41	3730	2519	514	967	8154
<i>Transfers:</i>									
Life Member to Life Fellow		+1		-1					
Fellow to Life Fellow		+8	-8						
Active to Life Member				+8	-8				
Active to Fellow			+36		-36				
Active to Associate						+16	-16		
Active to Student									
Associate to Active									
Associate to Jr. Associate									
Associate to Student									
Jr. Associate to Active					+6			-6	
Jr. Associate to Associate									
Jr. Associate to Student									
Student to Active									
Student to Associate							+2		
Student to Jr. Associate							+5	-5	
Membership	10	78	332	48	3708	2505	513	960	8154
Students Dropped 9/30/72								159	-159
Members Dropped 12/31/72			1		213	244	52		-510
Net Membership 12/31/72	10	78	331	48	3495	2261	461	801	7485

Membership Report—by Sections, as of December 31, 1972

Section	1/1/72	New	Reinstated	Resigned	Deceased	Dropped	Total
Atlanta	155	27		6		10	166
Australia	99	19		1		4	113
Boston	147	24		5		21	145
Chicago	608	67	1	19	3	41	613
Dallas-Fort Worth	63	25	1	1		3	85
Denver	126	16			1	18	123
Detroit	167	19				18	168
Florida-Caribbean	188	22	2	11	2	16	183
Hollywood	1416	198	5	26	8	127	1458
Houston	99	9				12	96
Montreal	211	23	1	8	1	17	209
Nashville	102	16	1	1	1	15	102
New York	1777	304	10	38	2	215	1836
Ohio	143	33	1	3	1	5	168
Pacific-Northwest	104	23	1	4		2	122
Rochester	350	30	1	17	1	15	348
San Francisco	240	27		8	1	28	230
Toronto	321	65	1	7		21	359
Washington	335	12	1	10	2	26	310
International	640	73	10	15	2	55	651
TOTALS	7291	1032	36	180	25	669	7485

Membership Report-by Grades: Honorary, 10 Life Fellow, 78 Life Member, 48 Fellow, 331 Active, 3495 Associate, 2261 Junior Associate, 461 Student, 801

Treasurer's Report—January 1-December 31, 1972

CASH		RESERVE FUND	
Cash on deposit—January 1, 1972	\$ 76,096	CASH	
Deposits	887,222	Cash on deposit	\$ 13,542
	\$963,318	Accrued Interest	3,924
Disbursements	922,710	INVESTMENTS, at cost	
Cast on deposit—December 31, 1972	\$ 40,608	Corporate Bonds	\$118,677
Petty cash fund	200	Common stocks	103,512
<i>Total cash deposit and on hand</i>	\$ 40,808	<i>Total Investments—Reserve Fund</i>	\$222,189
INVESTMENTS		<i>Total Cash and Investments—Reserve Fund—December 31, 1972</i>	\$239,655
U.S. Government securities at cost	\$ 10,558	<i>Total Cash and Investments—General and Reserve Funds—December 31, 1972</i>	\$291,021
<i>Total Cash Investments—General Fund—December 31, 1972</i>	\$ 51,366		

Respectfully submitted, JOSEPH T. DOUGHERTY, Treasurer

Statement of Income and Expenses and Changes in Balances of Funds—Year Ended December 31, 1972

GENERAL FUND	
INCOME	
Membership dues	\$229,882
Test film sales	\$284,491
Less: Direct costs	184,554
Technical conferences	
Income from registrations, exhibits, banquets, etc.	150,557
Less: Direct costs	100,080
Interest and dividends (Note 1)	16,460
Other income net	4,992
<i>Total Income</i>	<u>\$401,748</u>
EXPENSES	
Publications	
Cost of publishing Journal, books, reprints, etc.	\$194,291
Less: Advertising revenue and sales to non-members	163,668
Membership records and promotion	38,150
Engineering services	57,878
Office salaries	92,971
Rent and Office maintenance— New York	
Occupancy—Scarsdale (including amortization and interest)	22,452
Acquisition and relocation	18,206
Less: Contribution from Reserve Fund	45,204
Payroll taxes	40,000
Retirement plan	5,204
General and administrative	
Sections and Chapters	12,968
Affiliations	25,341
Administrative Committees	66,832
Provision for Five-Year Index	21,155
I.S.O. Secretariat	4,665
Scholarship program	1,368
Special activities	600
<i>Total Operating Expenses</i>	<u>\$411,644</u>
<i>Excess of Income (Expense) for Year</i>	(9,896)
Fund Balance at Beginning of Year	70,774
Accumulated Fund Balance at End of Year	<u>\$ 60,878</u>
RESERVE FUND	
Balance of Beginning of Year	\$272,950
Gain (Loss) on sale of investments	8,745
Less: Transfers to	
General Fund	281,695
Building Fund	40,000
Balance at End of Year	<u>\$191,695</u>
BUILDING FUND	
Balance at Beginning of Year	\$ —
Transfer from Reserve Fund	50,000
Amortization of Mortgage	2,279
Balance at End of Year	<u>\$ 52,279</u>

Note 1: Pursuant to resolutions of the Board of Governors, all dividends and interest earned in 1972 and 1971 were taken into the General Fund to partially offset the operating deficits of that fund.

Respectfully submitted, KENNETH M. MASON *Financial Vice-President*

Accountants' Report

To the Members and Board of Governors of the Society of Motion Picture and Television Engineers, Inc.

We have examined the balance sheet of the Society of Motion Picture and Television Engineers, Inc., as of December 31, 1972, and the related statement of income and expenses and changes in balances of funds, for the year then ended. Our examination was made in accordance with generally accepted auditing standards and accordingly included such tests of the accounting records and other auditing procedures as we considered necessary in the circumstances.

In our opinion, the accompanying balance sheet and statement of income and expenses and changes in balances of funds present fairly the financial position of the Society of Motion Picture and Television Engineers, Inc., at December 31, 1972, and the results of its operations for the year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

275 Madison Ave., New York, NY 10016

Balance Sheet—December 31, 1972

ASSETS

GENERAL FUND	
Cash	
Chase Manhattan Bank, New York	\$ 5,395
County Trust Co., Scarsdale, N. Y.	35,000
Conference accounts	213
Petty cash fund	200
U. S. Government Securities at cost (Market value—\$10,025)	10,558
Due from Reserve Fund (see contra)	47,960
Accounts receivable	
Test films and publications	73,717
Other	3,735
Inventory of test films—at cost	38,576
Equipment	
Test film equipment	1
Office furniture and equipment	1
Prepaid expenses	
Employees' retirement plan	21,420
Future conferences	3,568
Other	6,136
<i>Total Assets—General Fund</i>	<u>\$246,480</u>

RESERVE FUND	
Cash, Chase Manhattan Bank	\$ 13,542
Investments—at cost (Market value—\$228,300)	222,189
Accrued interest	3,924
<i>Total Assets—Reserve Fund</i>	<u>\$239,655</u>

BUILDING FUND	
Scarsdale, N. Y.—at cost	
Land	\$ 50,000
Building	175,000
<i>Total Assets—Building Fund</i>	<u>\$225,000</u>
<i>Total Assets</i>	<u>\$711,135</u>

LIABILITIES AND FUND BALANCES

GENERAL FUND	
Accounts payable	\$ 61,274
Payroll withholdings and taxes	444
Due to Trustees of Employees' Retirement Plan	11,315
Deferred income	
Membership dues paid in advance	103,555
Advance payments for test films and publications	5,926
Future conferences	1,888
<i>Total Liabilities</i>	<u>\$184,402</u>
Reserve for five-year index	1,200
Accumulated Fund Balance	60,878
<i>Total Liabilities and Fund Balance—General Fund</i>	<u>\$246,480</u>

RESERVE FUND	
Due to General Fund (see contra)	\$ 47,960
Fund Balance	191,695
<i>Total Liabilities and Fund Balance—Reserve Fund</i>	<u>\$239,655</u>

BUILDING FUND	
Mortgages payable	
Empire Federal Savings and Loan Association, 8% ⁰⁰ , 20 years	\$148,971
H. W. Hauptman, 7½% ⁰⁰ , 5 years	23,750
Fund Balance	52,279
<i>Total Liabilities & Fund Balance—Building Fund</i>	<u>\$225,000</u>
<i>Total Liabilities and Fund Balances</i>	<u>\$711,135</u>

March 29, 1973

HAUSER, O'CONNOR & HYLIND
Certified Public Accountants

SMPTE Constitution and Bylaws

Constitution

ARTICLE I

Name

The name of this association shall be SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS.

ARTICLE II

Objects and Powers

The purposes for which the Society was founded, and for which it has been operated, shall continue to be as follows:

1. To foster, carry on and advance the engineering and technical aspects of the motion-picture, television and allied arts and sciences;

2. To gather, receive, prepare and disseminate scientific information concerning the motion-picture, television and allied arts and sciences;

3. To provide for and to encourage the delivery and holding of lectures, exhibitions, classes and conferences calculated to advance the theory and practice of engineering involved in the motion-picture, television and allied arts and sciences;

4. To promote and further the interests of the general public in the engineering, technical and safety aspects connected with the use and enjoyment of the benefits provided by the motion-picture, television and allied arts and sciences;

5. To advance the scientific aims and purposes of Subdivisions to the extent that such scientific aims are consistent with or conform to the scientific purposes of the Society;

6. To do everything and anything reasonably or lawfully necessary, proper or advisable for the attainment of the above purposes or for any of them or for the furtherance of any or all such purposes;

7. The Society, in order to foster its scientific purposes as herein provided, shall have the power to own, acquire, purchase, accept gifts, hold as trustee or otherwise, maintain, improve, mortgage, sell, lease or dispose of real and personal property and to obtain, invest, reinvest and use funds and properties of any kind to advance the scientific aims of the Society;

8. To accept in the name of the Society or hold as trustee or otherwise any gift of money or property or the income thereof for one or more limited purposes within the scope of the general purposes of the Society as stated herein;

9. To have all powers of any corporation organized for scientific purposes under the laws of the District of Columbia to the extent not inconsistent with the purposes and powers of the Society as herein provided.

ARTICLE III

Restrictions

The Society shall have no capital stock. No part of the income or property of the Society shall inure to the private benefit of any of its members, officers or any private shareholder or individual; no substantial part of the activities of the Society shall be the carrying on of propaganda or otherwise

attempting to influence legislation, and the Society shall not participate in or interfere in any political campaign on behalf of any candidate for public office.

ARTICLE IV

Disposition of Assets and Dissolution

Upon the liquidation, winding up or dissolution of the Society, whether voluntary or involuntary, and after payment of all indebtedness of the Society, the funds, investments and other assets of the Society shall be given and transferred, as the Board of Governors may determine, to some other nonprofit organization having objects similar to those of the Society. The selection of such other organization shall be made by majority vote of all members of the Board of Governors at a meeting of said Board of Governors called for the purpose of selecting such an organization.

ARTICLE V

Meetings

Sec. 1. Regular Meeting. There shall be an annual meeting of the Society held at such time and place as may be fixed by the Board of Governors, and other meetings of the Society shall be called as provided in the Bylaws.

Sec. 2. Substitute for Annual Meeting. Whenever the Board of Governors, by a majority vote of all of its members, at either a meeting or by letter ballot, shall declare that by reason of any rule, regulation, request or order of any governmental agency, or for any cause, it is not in the interest of the Society to hold the annual meeting then no such meeting shall be required to be held under this Constitution and these Bylaws, and the Board of Governors shall fix a date by which the members of the Society shall vote by letter ballot on any matters which might be acted upon by the members at the annual meeting. The voting period for such letter ballot shall be sixty days ending on the date fixed as above for voting by letter ballot, and the date upon which the voting period expires shall be deemed to be the date of the annual meeting within the meaning of this Constitution and Bylaws.

ARTICLE VI

Membership

Sec. 1. Eligibility for Membership. Any individual, firm or corporation, qualified in the manner prescribed in the Bylaws, shall be eligible for membership in the Society, and shall be admitted to membership under such terms and conditions as may be prescribed in the Bylaws.

Sec. 2. Rights and Privileges. All members shall exercise and enjoy such rights as the Constitution and Bylaws of the Association may from time to time prescribe.

Sec. 3. Dues. Members shall pay such dues and assessments as the Constitution and Bylaws may prescribe.

ARTICLE VII

Board of Governors

Sec. 1. Management. The management of the Society shall be vested in the Board of

Governors elected in the manner prescribed in the Bylaws.

Sec. 2. Committees. The Board of Governors shall appoint such committees as may be prescribed in the Bylaws and may appoint such additional committees as it may determine; all such committees shall act under the direction of the Board of Governors and perform such duties and exercise such powers as are specified in the Bylaws and such duties and powers as may be delegated to such committees by the Board of Governors.

ARTICLE VIII

Officers

The officers of the Society shall be a President, not more than 11 Vice-Presidents, a Treasurer and a Secretary who shall be elected and have such duties as the Bylaws may from time to time prescribe. The Past-President shall also be considered as an Officer of the Society.

ARTICLE IX

Subdivisions

Sec. 1. Formation. The Board of Governors may authorize the formation of Subdivisions in the manner prescribed in the Bylaws, and may combine, divide or discontinue Subdivisions at its discretion.

Sec. 2. Activities. The activities of Subdivisions shall be subject to such limitations and regulations as may be prescribed in the Bylaws, by the Board of Governors or by resolution adopted at any meeting of the Society.

ARTICLE X

Amendments

Sec. 1. Procedure and Required Vote. Amendments may be submitted to the Board of Governors by a member of the Board or may be proposed to the Board of Governors by any ten members of a voting grade. All amendments, before they are submitted to the membership for discussion and vote, shall first have been approved by the Board of Governors by resolution adopted by the votes of a majority of the whole membership thereof. The proposed amendment shall be submitted for discussion at the next meeting of the Society following approval of the amendment by the Board of Governors. The proposed amendment, together with a summary of the discussion thereon, shall be promptly submitted by mail to all members qualified to vote, as set forth in the Bylaws. Voting shall be by letter ballot mailed with the proposed amendment and summary of the discussion to the voting membership. In order to be counted, return ballots must be received within sixty (60) days of the mailing-out date. Such amendment shall become effective if at least one-fifteenth of the duly qualified members shall have voted thereon within the time limit specified herein and if at least two-thirds of the members so voting have voted to adopt the amendment.

Sec. 2. Restrictions. No amendment shall be made which shall be contrary to the carrying out of the scientific purposes for which the Society was organized, and all rights conferred herein upon any member of the Society are granted subject to this reservation.

Bylaws

ARTICLE I

Membership

Sec. 1. Membership Grades. The membership of the Society shall consist of the following grades: Honorary, Sustaining, Life Fellow, Life Member, Fellow, Active, Associate, Jr. Associate and Student.

Sec. 2. Qualifications. Individuals, firms and corporations qualified in the manner hereinafter prescribed are eligible for membership.

Subsec. A. Honorary: An individual who has performed eminent service in the advancement of engineering in motion pictures, television or in the allied arts and sciences, and who has been elected to membership as hereinafter provided.

Subsec. B. Sustaining: An individual, firm or corporation subscribing substantially to the financial support of the Society.

Subsec. C. Fellow: An individual who is not less than 30 years old and who has by his proficiency and contributions, attained an outstanding rank among engineers or executives in the motion-picture, television or related industries.

Subsec. D. Active: An individual who is not less than 25 years of age who meets the qualifications set forth in one of the following paragraphs:

Paragraph 1. An engineer or scientist engaged in the motion-picture, television or allied arts and sciences who has performed, or been responsible for, important engineering or scientific work therein for a period of at least three years; or

Paragraph 2. A teacher in a school of recognized standing who has conducted for at least three years a major course principally concerned with motion-picture or television engineering or a subject involving the related arts and sciences; or

Paragraph 3. An individual who has made a distinct contribution to the advancement of engineering or science in motion-picture, television or the allied arts and sciences, or has contributed to the technical literature thereof, or has made significant inventions therein; or

Paragraph 4. An individual who for at least three years has had, under his executive direction, important engineering and responsible work in the motion-picture, television or related sciences, and who is otherwise qualified for the direct supervision of the technical and scientific features of such work.

Subsec. E. Associate: An individual who is not less than eighteen years of age who is interested in the study of the technical and engineering aspects of the motion-picture, television, or related arts and sciences.

Paragraph 1. Jr. Associate. Individuals eighteen to twenty-nine years of age meeting the above qualifications shall be admitted to membership as Jr. Associates.

Paragraph 2. Associate. Individuals thirty years of age and over meeting the above qualifications shall be admitted to membership as Associates and Jr. Associates shall automatically become Associates upon reaching thirty years of age.

Subsec. F. Student: Any individual registered for at least a half-time program as a

student, graduate or undergraduate, in a college, university or other recognized educational institution, who evidences interest in the study of the technology involved in the motion-picture, television or related arts and sciences.

Subsec. G. Life: An individual who meets all the following qualifications: (1) is at least 60 years old; (2) is retired from active business life; (3) has been an Active Member or Fellow for a total of 20 years; (4) who has at least 5 years of continuous membership immediately prior to application. Individuals who hold the grade of Fellow at the time of application will become Life Fellows and Active Members will become Life Members.

Sec. 3. Application for Membership. Application for membership in grades other than Honorary and Fellow shall be made on forms provided for that purpose. Applicants for membership in Active, Associate or Student grades shall state the name of the person whose reference is required by the following:

Subsec. A. Active: An applicant for membership in this grade shall give as a reference at least one Active, Fellow or Honorary member of the Society.

Subsec. B. Associate: An applicant for membership in this grade shall give as a reference at least one member of the Society or two nonmembers who are actively engaged in the motion-picture, television or related arts and sciences.

Subsec. C. Student: An applicant for membership in this grade must be sponsored by a member of the Society, or by a member of the faculty of the educational institution which he is attending. It is not required that the faculty member referred to in the preceding sentence be a member of the Society.

Subsec. D. Life: Life membership grades will not be conferred automatically but will be granted only upon written application to the Secretary by a qualified member.

Sec. 4. Election to Membership.

Subsec. A. Honorary. Honorary membership shall be granted to individuals qualified in the manner prescribed in Subsec. A. of Sec. 2 hereof upon recommendation of the Honorary Membership Committee when that Committee's recommendation is concurred in by the affirmative vote of three-fourths of the members of the Board of Governors present at any meeting of the Board.

Subsec. B. Fellow. Active members qualified in the manner prescribed in Subsec. C of Sec. 2 hereof shall be admitted to membership in this grade upon recommendation of the Fellow Membership Committee when that recommendation is concurred in by the affirmative vote of three-fourths of the members of the Board of Governors present at any regularly constituted meeting of the Board.

Subsec. C. Active. Upon determination by the appropriate Regional Admissions Committee that an applicant meets the qualifications set forth in Subsec. D of Sec. 2 hereof and upon approval of his application, the applicant shall become a member of the Society. Any application upon which a Regional Admissions Committee takes adverse action shall be referred by it to the

National Admissions Committee together with the reasons for such action. Adverse determinations shall be reversed and the applicant admitted to membership, upon a finding by the affirmative vote of four-fifths of the members of the National Admissions Committee that the applicant meets the qualifications set forth in Subsec. D of Sec. 2 of this Article. Adverse determinations by the National Admissions Committee may be appealed to the Board of Governors by the applicant or his sponsor, and such determinations shall be reversed upon a finding by the Board that the applicant meets the qualifications required by Subsec. D of Sec. 2 of this Article.

Subsec. D. Associate. Upon determination by the Membership Secretary that an applicant meets the qualifications set forth in Subsec. E. of Sec. 2 of this Article and upon approval of his application, the applicant shall become a member of the Society.

Subsec. E. Student. Upon determination by the Membership Secretary that an applicant meets the qualifications set forth in Subsec. F of Sec. 2 of this Article and upon approval of his application, the applicant shall become a member of the Society.

Subsec. F. Life. Upon determination by the Secretary that an applicant meets the qualifications set forth in Subsec. G of Sec. 2 of this Article, and upon approval of his application by the Executive Committee, the applicant shall be awarded the appropriate Life Membership grade in the Society.

Sec. 5. Voting Rights. Each member of the Society in the Honorary, Fellow, or Active grades shall be entitled to one vote on any matter presented to the membership, and such members are eligible to be elected to office in the Society. Members of the Society in the Associate, Student or Sustaining grades are not entitled to vote on any matter presented to the membership, are ineligible to hold office in the Society, and may not be appointed as Chairman of any Committee of the Society. However, Associate and Student members may be appointed to serve as members of committees in which case they shall be entitled to vote on matters considered by the Committee. Life Members and Life Fellows shall be entitled to all the rights and privileges of Active and Fellow Members.

Sec. 6. Termination of Membership.

Subsec. A. Resignation. Resignations of members shall be made in writing and shall be acted upon within 30 days of receipt of said resignation.

Subsec. B. Suspension and Termination of Membership for Nonpayment of Dues. In the event that any member shall fail to pay dues by the end of the third month from the due date, the membership of such person in the Society shall automatically be suspended. Suspension of membership results in the forfeiture of all membership rights and privileges. Such suspension shall automatically be revoked and all membership rights and privileges restored, upon payment by any such suspended member of all dues in arrears provided that they are paid within one calendar year from the due date. In the event that dues in arrears are not so paid, the membership of such member shall automatically be terminated.

Subsec. C. Expulsion and Reinstatement. Any member may be expelled for just cause, other than nonpayment of dues. Expulsion may take place only upon the vote of a majority of the entire membership of the Board of Governors after an opportunity to be heard before the Board shall have been granted to such member. No accused or accusing member shall be entitled to vote on the question of any such expulsion. Any former member whose membership has been terminated pursuant to this subsection may be reinstated upon application made to the Board and upon approval by the vote of a majority of the entire membership of the Board of Governors.

ARTICLE II

Meetings of the Society

Sec. 1. Annual Meeting and Notice. There shall be an Annual Meeting of the Society held at such time and place as may be fixed by the Board of Governors. Notice of the place, day and hour of the meeting shall be given to each member entitled to vote at such meeting by mailing such written notice as may be approved by the Secretary to each such member at his address as it appears on the records of the Society no less than 30 days before the date of the meeting.

Sec. 2. Special Meetings and Notice. Special Meetings may be called by the President and shall be called by the President upon the written request of at least three members of the Board of Governors or upon the written request of members having at least one-twentieth of the votes entitled to be cast at such meeting. Notice of the day, place, hour and purpose or purposes for which such meeting is called shall be mailed to each member entitled to vote at such meeting by mailing such written notice as may be approved by the Secretary to each such member at his address as it appears on the records of the Society no less than 20 days before the date of the meeting.

Sec. 3. Members Entitled to Vote. Each member of the Society in the Honorary, Fellow, Active and Life grades shall be entitled to one vote on each matter presented to the membership at an Annual or Special Meeting. Unless a greater proportion is required by these Bylaws, by the Society's Certificate of Incorporation or by the District of Columbia Non-Profit Corporation Act, the affirmative vote of a majority of the votes entitled to be cast by the members present or represented by proxy at a meeting at which a quorum is present shall be necessary for the adoption of any matter voted upon by the members.

Sec. 4. Quorum. One-fifteenth of the members of the Society entitled to vote and present in person or by proxy shall constitute a quorum at Annual or Special Meetings of the Society. A lesser number may adjourn a meeting without notice other than announcement at the time of such adjournment of the time, place and hour to which the meeting is adjourned. At any adjourned meeting at which a quorum is present any business may be transacted which might have been transacted at the meeting as originally called. Members present at a duly organized

meeting may continue to transact business until adjournment notwithstanding the withdrawal of enough members to leave less than a quorum.

Sec. 5. Proxies. At any Annual or Special Meeting of the Society, any member entitled to vote may vote by proxy provided at Society expense and executed in writing by such member in favor of any other member or members of the Society. No proxy, however, shall be valid after eleven months from the date of its execution unless otherwise provided in the proxy.

ARTICLE III

Board of Governors

Sec. 1. Number and Term of Office. The Board of Governors shall consist of: (1) the elected officers; (2) the Past-President of the Society; (3) individuals elected by the membership as hereinafter prescribed; (4) not more than five individuals elected by the Board of Governors for a term of one year when in the opinion of the Board such additional members will more adequately represent the interest and activities of the Society's membership.

All members of the Board of Governors shall be members of the Society in either Honorary, Life Fellow, Fellow, Life Member, or Active grades.

All Officers and Governors elected by the voting members of the Society shall serve for a term of two years (or until their successors have been duly elected), defined as follows:

January 1 of each odd-numbered year shall begin a term of office for the President, Executive Vice-President, Past-President, Editorial Vice-President, Conference Vice-President, Secretary, and approximately one half of the Governors as specified in Article III, Sec. 2, Subsec. B.

January 1 of each even numbered year shall begin a term of office for the Engineering Vice-President, Financial Vice-President, Treasurer, Sections Vice-President, Vice-President for Educational Affairs, Vice-President for Photo-Instrumentation Affairs, Vice-President for Motion-Picture Affairs, Vice-President for Photo-Science Affairs, Vice-President for Television Affairs, and the remaining approximate one-half of the Governors as specified in Article III, Sec. 2, Subsec. B.

Sec. 2. Regional Representation. The elected Governors prescribed in Sec. 1 (3) shall provide for geographical representation as follows:

Subsec. A. Regions. For the purposes of representation on the Board of Governors, the United States and Canada will be divided into regions. These regions are as follows: (1) New York, consisting of the New York Section; (2) Southern, consisting of the Atlanta, Dallas-Ft. Worth, Florida-Caribbean, Houston and Nashville Sections; (3) Eastern, consisting of the Boston, Rochester and Washington, D. C. Sections; (4) Central, consisting of the Chicago, Denver, Detroit and Ohio Sections; (5) Western, consisting of the Hollywood and San Francisco Sections; (6) Canada; (7) International, consisting of all countries other than the United States of America and Canada. The Board of Governors will

assign new Sections to the regions in which they are geographically located.

Subsec. B. Representation. The Regions of the United States and Canada shall be represented on the basis of one Governor for each 500 members, or fraction thereof, of any grade, elected by the voting membership residing in their respective regions. Membership in the regions shall be determined on the basis of an annual membership audit as of April 1, of each year. **Members residing in countries other than the United States of America or Canada may vote for any two nominees for Governor, regardless of region, who they feel will be best able to serve their interests.**

Sec. 3. Nominations

Subsec. A. Nominating Committee. Before the last Monday of March, the President shall appoint a Nominating Committee which shall consist of at least nine voting members of the Society. The Committee shall consist of the Past President or one former president, four members of the Board of Governors and four voting members at large. The President shall appoint one member to serve as Chairman of the Committee.

Subsec. B. Nominees. The committee shall nominate one or more candidates for each office of the Society to be filled for the term beginning the next following January 1. The Committee shall nominate at least two and not more than three candidates for each vacancy to be filled on the Board of Governors for the term beginning the following January 1. Individuals nominated must be in voting membership grades of the Society.

Subsec. C. Acceptance of Nomination. The Chairman of the Committee shall determine in writing that the nominees are willing and able to accept the position if elected before including the individual's name on the report of the Committee to the Board of Governors.

Subsec. D. Nomination by Petition. The name of any voting member in good standing may be placed in nomination for any office by a petition signed by at least thirty other voting members in good standing. Nomination petitions must be delivered to the Secretary at Society Headquarters before the close of business on the second Monday of August and must be accompanied by assurance from the nominee in writing that he is willing and able to serve, if elected. The names of Petition Nominees will be added to the ballot and identified as such.

Sec. 4. Approval of Nominations. Before the last Monday of July, the list of nominees proposed by the Nominating Committee shall be reviewed by the Board of Governors, and said list shall be final unless the Board shall, by a three-fourths vote of those present, direct that any individual's name be deleted therefrom. It shall be the duty of the Secretary to notify the individuals appearing on said list of their nomination, and each such person shall notify the Secretary within two weeks thereafter whether he will serve if elected. The names of all such persons who

indicate their assent shall then be placed upon a letter ballot prepared by the Secretary.

Sec. 5. Election. Not later than the third Monday of August the Secretary shall cause a letter ballot to be mailed to each voting member of the Society at his last known address appearing on the books of the Society. On the space provided on the ballot each member who wishes to vote shall indicate the individual and the position to which he wishes to have such individual elected. No individual may cast more than one vote in each area of technical interest. The names of candidates for the offices of Vice-President for Educational Affairs, Vice-President for Photo-Instrumentation Affairs, Vice-President for Motion-Picture Affairs, Vice-President for Photo-Science Affairs, and Vice-President for Television Affairs shall be grouped as an entity on one specific portion of the ballot, divided into five subunits in accordance with the five fields of technical interest therein defined. The ballots which have been returned to the Secretary before or on the last Monday of September shall be delivered to the Committee of Tellers appointed by the President. Said Committee shall tabulate the votes not later than the first Monday of October. Election of candidates shall be by plurality vote, and in the case of tie, the choice shall be decided by lot. The individuals elected shall take office as of January 1 of the next following year.

Sec. 6. Filling of Vacancies. Whenever a vacancy shall occur in the Board of Governors or in any office of the Society other than that of the President, the remaining Governors may, by the affirmative vote of a majority of them, elect an individual to fill such vacancy. Individuals so elected shall serve for the unexpired term of their respective predecessors.

Sec. 7. Meetings and Quorum. The Board of Governors shall hold at least four meetings each year, one of which shall be at the time and place of the Annual Meeting of the Society. At least two weeks' notice of the time and place of all regular meetings shall be sent to the members of the Board. Special meetings may be called at any time by the President or by any two Vice Presidents upon at least seven days' notice. At each meeting of the Board of Governors, a majority of members shall constitute a quorum.

Sec. 8. The Board of Governors may, by resolution adopted by a majority of the governors eligible to vote thereon, indemnify any governor or officer or former governor or officer of the Society or any person who may have served at its request as a director, governor or officer of another corporation against expenses actually and reasonably incurred by him in the defense of any action, suit or proceeding, civil or criminal, in which he is made a party by reason of being or having been such director, governor, or officer except in relation to matters as to which he shall be adjudged in such action, suit or proceeding to be liable for negligence or misconduct in the performance of a duty.

ARTICLE IV

Officers

Sec. 1. President.

Subsec. A. Function. The President shall preside at all meetings of the Society, the Board of Governors and at all meetings of the Executive Committee. Subject to the direction of the Board of Governors, he shall be the executive head of the Society.

Subsec. B. Substitute. During any period of absence or temporary incapacity of the President, the Executive Vice-President shall perform and have the duties and powers of the President. In the event that both the President and Executive Vice-President are absent, the Engineering Vice-President or the Financial Vice-President (in that order) shall perform and have the duties and powers of the President.

Sec. 2. Executive Vice-President.

Subsec. A. Residence. The Executive Vice-President and the President may not reside in the same geographical area of the United States, unless after both are duly elected, one or the other should be required to move his residence to the same region in which the other resides. In this event neither officer shall be deprived of office pursuant to this Subsection.

Subsec. B. Duties. In the absence of the President due to death, resignation or incapacity, the Executive Vice-President shall perform and have the duties and powers of the President. In addition, the Executive Vice-President shall perform such other duties as may be assigned him by the President.

Sec. 3. Past-President. The Past-President shall serve primarily in an advisory capacity to the other officers and governors of the Society. He shall be Chairman of the Fellow Membership Committee and may be requested to assume other duties for which his experience in Society affairs may make him particularly suited.

Sec. 4. Engineering Vice-President. The Engineering Vice-President shall be responsible for the supervision and coordination of the work of all technical committees of the Society, and, when authorized to do so by the Board of Governors, may appoint committees, define their scope, and designate the members thereof.

Sec. 5. Financial Vice-President. The Financial Vice-President shall be responsible for the financial operations of the Society to ensure that they conform to the budget submitted by him and approved by the Board of Governors. He shall keep all funds in the name of the Society in a bank, or banks, approved by the Board of Governors. He may invest the surplus funds of the Society in such manner as may be approved by the Board of Governors. At the end of each fiscal year his books shall be audited by a certified public accountant selected by the Board of Governors, and a report of such audit shall be made to the Board of Governors which shall mail it to each member of the Society.

Sec. 6. Treasurer. The Treasurer shall have custody of the funds and assets, except invested surplus, of the Society, and shall keep proper books of account. He shall disburse the funds of the Association under

the direction of the Financial Vice-President and the Board of Governors. He shall give a surety company bond for the faithful performance of his duties in such amount as may be required by the Board of Governors. The premium on such bond shall be paid by the Society.

Sec. 7. Editorial Vice-President. The Editorial Vice-President shall be responsible for the content and publication of the Society's *Journal* and the editorial aspects of all other publications of the Society. He shall appoint and supervise the work of certain administrative committees as defined in the Administrative Practices.

Sec. 8. Conference Vice-President. Subject to the approval of the Board of Governors, the Conference Vice-President shall be responsible for the national technical conferences of the Society.

Sec. 9. Sections Vice-President. The Sections Vice-President shall be responsible for the coordination and administration of Subdivisions to ensure that their activities conform to the purposes set forth in Article II of the Constitution, and shall aid and assist Subdivisions by interpreting the Society's policy. As a member of the Board of Governors, the Sections Vice-President shall represent on the Board the sectional interests of all Subdivisions. He shall be responsible for aiding and furthering the formation of new Subdivisions. He shall appoint the Chairman of the National Admissions Committee, and shall be responsible for the supervision and coordination of the activities of the various other Admissions Committees.

Sec. 10. Secretary. The Secretary shall keep a record of all meetings of the Society, the Board of Governors and the Executive Committee. The Secretary shall be responsible for the maintenance of a membership roster. The Secretary shall have the custody of the records of the Society and the corporate seal. The Secretary shall perform such other duties as may be required by these Bylaws or specified by the Board of Governors.

Sec. 11. Vice-President for Educational Affairs. The Vice-President for Educational Affairs shall be responsible to the President, Executive Vice-President and the Board of Governors for representing the educational interests of the members of the Society. His duties shall be to seek out, study, and recommend worthwhile Society activities in his field; to cooperate with the Engineering Vice-President, Editorial Vice-President, Conference Vice-President, and Sections Vice-President in furthering the Society's contributions to educational affairs; and to perform such additional duties as the President may direct.

Sec. 12. Vice-President for Photo-Instrumentation Affairs. The Vice-President for Photo-Instrumentation Affairs shall be responsible to the President, Executive Vice-President, and the Board of Governors for representing the instrumentation and high-speed photography interests of the members of the Society. His duties shall be to seek out, study, and recommend worthwhile Society activities in his field; to cooperate with the Engineering Vice-President, Editorial Vice-President, Conference Vice-President, and Sections Vice-President in furthering the Society's

contributions to instrumentation and high-speed photography affairs; and to perform such additional duties as the President may direct.

Sec. 13. Vice-President for Motion-Picture Affairs. The Vice-President for Motion-Picture Affairs shall be responsible to the President, Executive Vice-President and the Board of Governors, for representing the motion-picture interests of the members of the Society. His duties shall be to seek out, study, and recommend worthwhile Society activities in his field; to cooperate with the Engineering Vice-President, Editorial Vice-President, Conference Vice-President, and Sections Vice-President in furthering the Society's contributions to motion-picture affairs; and to perform such additional duties as the President may direct.

Sec. 14. Vice-President for Photo-Science Affairs. The Vice-President for Photo-Science Affairs shall be responsible to the President, Executive Vice-President and the Board of Governors for representing the photo-science interests of the members of the Society. His duties shall be to seek out, study, and recommend worthwhile Society activities in his field; to cooperate with the Engineering Vice-President, Editorial Vice-President, Conference Vice-President, and Sections Vice-President in furthering the Society's contributions to photo-science affairs; and to perform such additional duties as the President may direct.

Sec. 15. Vice-President for Television Affairs. The Vice-President for Television Affairs shall be responsible to the President, Executive Vice-President and the Board of Governors for representing the television interests of the members of the Society. His duties shall be to seek out, study, and recommend worthwhile Society activities in his field; to cooperate with the Engineering Vice-President, Editorial Vice-President, Conference Vice-President, and Sections Vice-President in furthering the Society's contributions to television affairs; and to perform such additional duties as the President may direct.

ARTICLE V

Committees

Sec. 1. General.

Subsec. A. Appointment. Such standing and ad hoc committees as may be necessary or convenient for the proper conduct of the affairs of the Society may be appointed as provided by the Constitution, Bylaws and Administrative Practices of the Society. The chairmen of all such committees shall be voting members of the Society.

Subsec. B. Term. The members of all standing committees shall hold office until December 31 of the year following appointment or until their successors are appointed.

Subsec. C. Term of Office of Chairman. No person shall hold the office of Chairman of a standing committee for more than two consecutive terms, but may be reappointed if there has been a lapse of one year between the date of his retirement and his subsequent appointment.

Subsec. D. Quorum. A majority of the members of a committee shall constitute a

quorum unless otherwise specified in these Bylaws.

Subsec. E. Voting. No member of a standing committee may vote by proxy. Where alternates have been appointed, an alternate may vote in the absence of the Committee member for whom he has been designated as an alternate.

Sec. 2. Standing Committees.

Subsec. A. Executive Committee. The members of the Executive Committee shall consist of the President and/or the Executive Vice-President of the Society and other officers selected by the President and approved by the Board of Governors. The total membership of the Executive Committee shall not be greater than seven nor less than four. Subject to direction by the Board of Governors, the Committee shall have all powers of the Board of Governors to transact business between meetings of the Board and shall have such other powers and duties as may be delegated to it by the Board. All transactions of the Committees shall be fully reported at the next scheduled meeting of the Board of Governors.

Subsec. B. Honorary Membership Committee. The President shall appoint five individuals to this Committee who shall be members of the Society in either Honorary, Fellow or Active grades. The Committee may recommend persons to the Board of Governors for election to membership in the Honorary grade or their name for addition to the Honor Roll if the person is deceased.

Subsec. C. Fellow Membership Committee. The membership of the Committee shall consist of all members of the Board of Governors, the Chairmen of Engineering Committees and the Chairmen of Sections of the Society. The Past President shall serve as Chairman of the Committee; or, if unavailable, the President shall appoint a Chairman from among the members of the Committee. The Committee may recommend persons to the Board of Governors for election to membership in the Fellow grade.

Subsec. D. National Admissions Committee. The members of this Committee shall be the Chairmen of each of the Regional Admissions Committees, and a National Admissions Committee Chairman appointed by the Sections Vice-President. The Committee shall make such determinations as may be required under these Bylaws and shall review the activities of Regional Admissions Committees to ensure that the activities of such committees conform to the Constitution, Bylaws and policies of the Society.

Subsec. E. Regional Admissions Committees. There shall be an Admissions Committee for each of the following four regions: Western, Central, Eastern and International. The territorial jurisdiction of each such committee shall be as defined by the Board of Governors. Each Regional Admissions Committee shall consist of a chairman and three other members of the Society in either Active, Fellow or Honorary grades. The members and Chairmen of such Committees shall be appointed by the Chairman of the National Admissions Committee with the concurrence of the Sections Vice-

President. It shall be the duty of Regional Admissions Committees to process and consider applications for membership as specified by the Constitution and Bylaws.

Subsec. F. International Relations Committee. The President shall appoint at least three members to this committee. At least one of these members shall be from a country where there is a section of the Society outside the United States of America. All appointees must be voting members of the Society. The Committee shall advise the Board of Governors concerning matters involving the organizational relations of the Society with individuals or groups outside the U.S.A.

ARTICLE VI

Administrative Practices

Sec. 1. Authorization. Special rules relating to the administration of the Society and known as Administrative Practices shall be established by the Board of Governors and shall be added to or revised as necessary to the efficient pursuit of the Society's objectives.

ARTICLE VII

Dues

Sec. 1. Amount of Dues. Annual dues for grades of membership other than sustaining are as follows:

Honorary	- None
Life Fellow	- None
Life Member	- None
Fellow—	Twenty-Five Dollars (\$25.00)
Active—	Twenty-Five Dollars (\$25.00)
Associate—	Twenty-Five Dollars (\$25.00)
Jr. Associate—	Twenty Dollars (\$20.00)
Student—	Five Dollars (\$5.00)

Sec. 2. Payment of Dues. Annual dues for all grades of membership other than student are for the calendar year, and are payable on or before January 1 of each year. Annual dues for student members are for the year commencing October 1 and ending on September 30, and are payable on or before October 1 of each year.

Sec. 3. First Year Dues. First year dues for individuals elected to membership in either the Fellow, Active or Associate grade on or before June 30 shall be the annual dues specified for those grades in Sec. 1 of this Article; for individuals elected to membership in those grades after June 30, first year dues shall be one-half the dues specified in Sec. 1 of this Article. First year dues for Student members shall be the annual dues specified in Sec. 1 of this Article regardless of the month in which elected to membership in such grade.

Sec. 4. Transfer of Grade.

Subsec. A. Change in the grade of membership to a grade with higher annual dues, if made on or before June 30, shall require that the member's dues payments for that year equal the rate for the higher grade; if made after June 30, dues payable for the

year shall be the annual dues for the lower dues grade plus one-half the difference between the dues for that grade and the one to which elected.

Subsec. B. Change in the grade of membership to a grade with lower or no dues shall be without effect upon the amount of annual dues payable in the year in which such change occurs.

ARTICLE VIII

Publications

Sec. 1. The Journal. The Society shall publish a monthly technical journal. The editorial policy of the *Journal* shall be based upon the provisions of the Constitution and a copy of each issue shall be supplied to every member except those whose membership has been suspended pursuant to the provisions of Article 1, Sec. 6, mailed to his last address of record. Copies may be made available for sale at a price approved by the Board of Governors.

Sec. 2. Other Publications. The Society may publish such books, pamphlets, or other publications as may further the objectives of the Society.

ARTICLE IX

Local Sections

Sec. 1. Section Authorization. Sections of the Society may be authorized in any locality where the voting membership exceeds twenty. The geographic boundaries of each Section shall be determined by the Board of Governors. Upon written petition for the authorization of a Section of the Society, signed by twenty or more voting members, the Board of Governors may grant such authorization.

Sec. 2. Section Membership.

Subsec. A. All members of the Society of Motion Picture and Television Engineers in good standing residing within the geographic boundaries of any local Section shall be considered members of that Section.

Subsec. B. Should the enrolled voting membership of a Section fall below twenty, or should the technical quality of the presented papers fall below an acceptable level, or the average attendance at meetings not warrant the expense of maintaining that Section, the Board of Governors may cancel its authorization.

Sec. 3. Section Officers. The Officers of each Section shall be a Chairman and a Secretary-Treasurer. Each Section Officer shall hold office for one year, or until his successor is chosen.

Sec. 4. Board of Managers. The Board of Managers shall consist of the Section Chairman, the Section Past-Chairman, the Section Secretary-Treasurer, and six voting members. Each manager of a Section shall hold office for two years. Vacancies shall be filled by appointment by the Board of Managers until the annual election of the Section.

Sec. 5. Section Elections. The officers and managers of a Section shall be voting members of the Society. All officers and

managers shall be elected to their respective offices by a plurality of ballots cast by the voting members residing in the geographical area of the Section. Not less than three months prior to the annual fall technical conference of the Society, nominations shall be presented to the Board of Managers of the Section by a Nominating Committee appointed by the Chairman of the Section, consisting of seven members, including a chairman. The committee shall be composed of the present Chairman, the Past-Chairman, two other members of the Board of Managers not up for election, and three other voting members of the Section not currently officers or managers of the Section. Nominations shall be made by a three-quarters affirmative vote of the total Nominating Committee. Such nominations shall be final, unless any nominee is rejected by a three-quarters vote of the Board of Managers, and in the event of such rejection the Board of Managers will make its own nomination.

The Chairman of the Section shall then notify the candidates of their nomination. From the list of acceptances, not more than three names for each vacancy shall be selected by the Board of Managers and placed on a letter ballot. A blank space shall be provided on this letter ballot under each office, in which space the name of any voting member other than those suggested by the Board of Managers may be voted for. The balloting shall then take place. The ballot shall be enclosed with a blank envelope and a business reply envelope bearing the local Secretary-Treasurer's address and a space for the member's name and address. One of these shall be mailed to each voting member of the Society residing in the geographical area covered by the Section, not less than forty days in advance of the annual fall technical conference.

The voter shall then indicate on the ballot one choice for each office, seal the ballot in the blank envelope, place this in the envelope addressed to the Secretary-Treasurer, sign his name and address on the latter, and mail it in accordance with the instructions printed on the ballot. No marks of any kind except those above prescribed shall be placed upon the ballots or envelopes. Voting shall close seven days before the opening session of the annual fall technical conference. The sealed envelopes shall be delivered by the Secretary-Treasurer to his Board of Managers at a duly called meeting. The Board of Managers shall then examine the returned envelopes, open and count the ballots, and announce the results of the election.

The newly elected officers and managers shall take office on January 1, following their election.

Sec. 6. Section Business. The business of a Section shall be conducted by the Board of Managers.

Sec. 7. Section Expenses.

Subsec. A. Prior to the beginning of each fiscal year each Section shall submit to the Sections Vice-President the proposed budget requirements of the Section for the next fiscal year.

Subsec. B. The Treasurer of the Society shall deposit with each Section Secretary-Treasurer a sum of money for current expenses, the amount to be fixed by the Board of Governors.

Subsec. C. The Secretary-Treasurer of each Section shall send to the Treasurer of the Society, quarterly, or on demand, an itemized account of all expenditures incurred during the preceding period.

Subsec. D. Expenses other than those enumerated in the budget, as approved by the Board of Governors of the Society, shall not be payable from the general funds of the Society without express permission from the Board of Governors.

Subsec. E. The Section Board of Managers shall defray all expenses of the Section not provided for by the Board of Governors from funds raised locally.

Subsec. F. The Secretary of the Society shall, unless otherwise arranged, supply to each Section all stationery and printing necessary for the conduct of its business.

Sec. 8. Section Meetings. The regular meetings of a Section shall be held in such places and at such hours as the Board of Managers may designate. The Secretary-Treasurer of each Section shall forward to the Sections Vice-President of the Society, not later than five days after a meeting of a Section, a statement of the attendance and of the business transacted.

Sec. 9. Constitution and Bylaws. Sections shall abide by the Constitution and Bylaws of the Society and conform to the regulations of the Board of Governors. The conduct of Sections shall always be in conformity with the general policy of the Society as fixed by the Board of Governors.

ARTICLE X

Student Chapters

Sec. 1. Chapter Authorization. Student Chapters of the Society may be authorized in any college, university, or technical institute. Upon written petition for the authorization of a Student Chapter, signed by twelve or more Society members, or applicants for Society membership, and the Faculty Advisor, the Board of Governors may grant such authorization. Where the petition for authorization of a Student Chapter relates to a college, university, or technical institute of collegiate standing, a Student Chapter — Engineering may be granted. Where the petition for authorization of a Student Chapter relates to a technical school or a school offering technical training at a vocational level preparatory to full-time technical employment in the motion-picture or television or related arts and sciences, a Student Chapter — Technical may be granted.

Sec. 2. Chapter Membership.

Subsec. A. All members of the Society in good standing who are attending the designated educational institution shall be eligible for membership in the Student Chapter, and when so enrolled they shall be entitled to all privileges that such Student Chapter may, under the Constitution and Bylaws, provide.

Subsec. B. Should the membership of the Student Chapter fall below ten, or the average attendance of meetings not warrant the expense of maintaining the organization, the Board of Governors may cancel its authorization.

Sec. 3. Chapter Officers. The officers of each Student Chapter shall be a Chairman and a Secretary-Treasurer. Each Chapter officer shall hold office for one year, or until his successor is chosen. Where possible officers shall be chosen in May to take office at the beginning of the following school year. The procedure for holding elections shall be prescribed in the Administrative Practices.

Sec. 4. Faculty Adviser. A member of the faculty of the same educational institution shall be designated by the Board of Governors as Faculty Adviser. It shall be his duty to advise the officers on the conduct of the Chapter and to approve all reports to the Sections Vice-President and the Treasurer of the Society.

Sec. 5. Chapter Expenses. The Treasurer of the Society shall deposit with each Chapter Secretary-Treasurer a sum of money, the amount to be fixed by the Board of Governors. The Secretary-Treasurer of the Chapter shall send to the Treasurer of the Society at the end of each school year or on demand an itemized account of all expenditures incurred.

Sec. 6. Chapter Meetings. The Chapter shall hold at least four meetings per year. The Secretary-Treasurer shall forward to the Sections Vice-President of the Society at the end of each school year a report of the meetings for that year giving the subject, speaker and approximate attendance for each meeting.

ARTICLE XI

Amendments

Sec. 1. Procedure and Required Vote. Proposed amendments to these Bylaws

may be initiated by the Board of Governors or by a recommendation to the Board of Governors signed by ten voting members. All amendments before they are submitted to the membership for discussion and vote, shall first have been approved by the Board of Governors by resolution adopted by the votes of a majority of the whole membership thereof. Proposed amendments may be approved at any regular meeting of the Society at which a quorum is present, by the affirmative vote of two-thirds of the members present and eligible to vote thereon. Such proposed amendments shall have been published in the *Journal* of the Society, in the issue next preceding the date of the stated business meeting of the Society at which the amendment or amendments are to be acted upon.

Sec. 2. Lack of Quorum. In the event that no quorum of the voting members is present at the time of the meeting referred to in Sec. 1, the amendment or amendments shall be referred for action to the Board of Governors. The proposed amendment or amendments then become a part of the Bylaws upon receiving the affirmative vote of three-quarters of the entire membership of the Board of Governors.

ARTICLE XII

Standards and Recommendations

Sec. 1. Purpose. The Society's "Recommended Practices," as well as American National Standards sponsored by the Society, are adopted in the public interest; they are designed for the purpose of promoting and furthering the interests of the

general public through the statement and dissemination of technical and engineering principles applicable to the motion-picture, television and the related arts and sciences.

Sec. 2. Definition. "Recommended Practices" of the Society and an American National Standard sponsored by the Society describe a product, process or procedure with reference to one or more of the following: nomenclature, composition, tolerances, safety, operating characteristics, performance, rating, testing and the service for which designed.

Sec. 3. Use. Existence of a "Recommended Practice" of the Society does not in any respect require that any member or nonmember adhere to it, and such persons are free to accept or reject any adopted "Recommended Practice" as they see fit in the exercise of their individual discretion.

ARTICLE XIII

Executive Director

The Board of Governors shall appoint an Executive Director who shall be employed by the Society on such terms and conditions as the Board shall determine. Subject to approval by the Board of Governors, the Executive Director may employ administrative, technical or other specialists to serve the Society. The Executive Director shall be responsible to the Board of Governors for the operation of the principal and such other offices as the Society may maintain and shall be responsible to the Board for the supervision of other employees of the Society.

Annual Awards

A detailed report of 1972 Awards, including the full text of citations and acceptances, appears in the February 1973, *Journal*, pp. 102-107. A description of the awards and a recapitulation of the recipients of the previous years' awards were last published in the *Directory for Members*, November 1972.

Sustaining Members

of the Society of Motion Picture and Television Engineers

Academy of Motion Picture Arts and Sciences, 9038 Melrose Ave., Hollywood, CA 90069 (213) 278-8990

The Academy is an honorary nonprofit organization of more than 3,800 members, founded in 1927 to advance the arts and sciences in filmmaking; foster cooperation among creative leaders for cultural, educational and technological progress; recognize outstanding achievements; cooperate on technical research and improvement of methods and equipment; provide a common forum and meeting ground for various branches and crafts; represent the viewpoint of the actual creators of the motion picture; and foster educational activities. While only one of many projects carried out on a year-round basis, the annual Academy Awards Presentation is undoubtedly the best-known of all Academy activities. It has been held every year since the organization was founded, with the aims of raising the standard of motion-picture production educationally, culturally and technically and dignifying the film medium. The Academy's Margaret Herrick Library is regarded as one of the most complete collections in the world of technical and historical information; it contains more than 5,000 books and periodicals about production, personnel, cast and technical credits, reviews, photographs and other pertinent information about every motion picture made in this country since 1915. It is open to the public. To encourage and stimulate further progress by craftsmen within the motion-picture industry and provide incentive, knowledge and support to persons preparing themselves to enter the film medium, the Academy conducts a number of educational activities, such as its scholarship program to aid and encourage students studying motion-picture crafts and researchers in developing technical innovations in universities and colleges and its sponsorship of films dealing with various techniques of filmmaking. The modern, 1,000-seat Academy Award Theatre is one of the best-equipped in the world.

Address inquiries to: the address above.

Agfa-Gevaert, N.V., Septestraat, B-2510, Mortsel (Antwerp), Belgium. U.S. rep., Agfa-Gevaert Inc., 275 North St., Teterboro, NJ 07608 (201) 288-4100

Agfa-Gevaert, N.V. belongs to the Agfa-Gevaert group, who have factories in Germany and Belgium, Argentina, Brazil, France, India, Spain, and USA. The main plants are at Mortsel (Antwerp), Leverkusen (Cologne) and Munich. The entire staff, world-wide, numbers more than 34,000 employees. The manufacturing program includes light-sensitive material for general photography, photographic apparatus, equipment and machines for photographic laboratories, magnetic film and tape, and products for applied photography (professional cinematography and television, medical and industrial radiography, scientific applications, graphic arts, office copying and office offset, electrophotographic office copying, micro-copying, stabilization systems, industrial reprography and audiovisual techniques). Products are distributed through 24 subsidiary companies and 120 agencies throughout the world.

Address inquiries to: Agfa-Gevaert in the U.S., at the address above.

Alex Laboratorios Cinematograficos S.A., Dragones 2250, Buenos Aires, Argentina 783-9877 and 781-7041/47

Alex is a modern laboratory for processing 35mm and 16mm color and black-and-white film. The color systems processed are Eastman Color, Gevaert Color, Fuji and Ferrania. A new HFC Panel Printer has been installed for color printing. In addition, we have incorporated two new panel printers of the same type, one for 35mm and one for 16mm color printing. A Houston film processor for 16mm Ektachrome films, types ECO-3 and ME-4 has been added to our line of production as well as a Depue reduction printer with scanning incorporated. Color and density corrections are provided by the Eastman Video Color Analyzer, Model 1635. Services also include computerized reduction printing from 35mm to 16mm including sound and liquid gate printing; film subtitling by photographic or Titalex Direct

Etching systems; optical and special effects by the Research Products Optical Printer and anamorphosing and deanamorphosing by the Alexscope process. The lab offers its customers 80 editing rooms with Moviolas; seven projection rooms; film cleaning by machine and a negative storage vault and facilities for the production of educational filmstrips. A machine shop as well as an electrotechnical shop are responsible for building and maintaining equipment and high precision parts and for ensuring uninterrupted service. Additional services include a complete dubbing department, rental of camera, lenses, lighting and recording equipment and focus control by collimation on optical bench. The 30,000 ft² air-conditioned building shelters both the laboratory and Phonalex, a modern sound recording center with rerecording rooms, sound stages for music recording with 2, 3, 4 and 8 stereo channels, a console of 12 microphone or line input channels and up to 12 program output channels. Projection of 35mm and 16mm is provided on every stage. Transfers from all types of tapes and mag film are effected with or without sync punch with Maurer and Westrex sound equipment. There is a disc-cutting service for record pressing and a complete library of sound effects and stock music. In Phonalex as well as in Alex, individual attention and adoption of up-to-date techniques, plus new engineering principles, result in services of the highest international standards. The two companies maintain a staff of some 300 skilled technicians and employees.

Address inquiries to: the address above.

Allen Products, Inc., 180 Wampus Lane, Milford, CT 06460 (203) 874-2563

Allen Products, Inc., manufactures a complete line of black-and-white, color and microfilm photographic processors and a high-speed, low-cost microfilm printer. Standard features of Allen processors include: stainless steel construction, automatic temperature control, electronic variable-speed drive, air squeegee, complete plumbing and elevators. Allen Products also has the ability and flexibility to design and build custom processors to meet individual customer requirements.

Address inquiries to: Above Attn: Ronald L. Bailer, Marketing Manager

Allied Film Laboratory Inc., 9930 Greenfield Rd., Detroit, MI 48227 (313) 272-3990; 1322 Belmont W., Chicago, IL 60657 (312) 348-0373

Allied Film Laboratory specializes in the duplication of color filmstrips, 16mm color motion pictures and super-8 color motion pictures. Facilities include negative and positive color processing, additive color printing and magnetic sound transfer to super 8mm prints. The firm emphasizes the utilization of the most advanced systems of film duplication, both in equipment and in technique, to produce prints for industrial, educational and religious film producers.

Address inquiries to: the addresses above.

Allied Impex Corp., Div., AIC Photo Inc., 168 Glen Cove Rd., Carle Place, NY 11514 (516) 742-7300

Allied Impex Corp. imports Bauer professional 16mm sound projectors manufactured by the firm of Robert Bosch Photokino GmbH of West Germany, one of Europe's largest producers of professional movie equipment since 1905. Bauer 16mm sound projectors like Bauer P6 Studio (Double Band) and Bauer P6 Synchron (Single Band) and Bauer P6 Automatic are designed for producer screening rooms, schools, business and industry. Allied Impex Corp. also imports Bauer super-8 movie cameras, projectors and film editors, Miranda 35mm single lens reflex cameras and accessories, Soligor lenses, Ultrablitz electronic flash units and other photographic lines.

Address inquiries to: the address above.

Ambassador College, 300 W. Green St., Pasadena, CA 91105 (213) 577-5400

Ambassador College is a four-year liberal arts educational institution with sister colleges at Big Sandy, Texas, and Bricket Wood, near London, England. Ambassador College produces an educational television program, of international interest.

Address inquiries to: Norman A. Smith, Vice-President, Broadcasting Production, at the address above.

American Broadcasting Companies, Inc., 1330 Ave. of the Americas, New York, NY 10019 (212) LT1-7777

This is one of the leading corporations in the entertainment and communications fields. Its American Broadcasting Company Div. operates one of the country's major television and radio networks, and owns and operates five television stations, seven AM radio stations, and seven FM radio stations, located in New York, Chicago, Detroit, San Francisco, Los Angeles, Pittsburgh and Houston. The theater-operating subsidiaries have interests in approximately 400 motion-picture theaters located in 36 states. Other activities include ABC Records, Inc., which is engaged in the phonograph-record business, and Prairie Farmer Publishing Co. which is the publisher of leading farm papers. The company also has interests in a growing number of foreign television stations.

Address inquiries to: Julius Barnathan, at the address above.

American Society of Cinematographers, 1782 N. Orange Drive, Hollywood, CA 90028 (213) 876-5080

The American Society of Cinematographers was established in 1919 as a nonprofit organization to advance the art and science of cinematography and to encourage, foster and strive for preeminence, excellence, artistic perfection and scientific knowledge in all matters pertaining to cinematography, and for the purpose of bringing into the closest confederation those leaders in the cinematographic science whose achievements in that field entitle them to membership in this Society, and for the purpose of maintaining the high standard set for themselves, and to promote the interest of all who shall be called to membership, and that membership in this Society may become a mark of honor and distinction based on merit. Membership consists of Active Members (Directors of Photography), a limited number of Associate Members (those who are engaged in work that is affiliated with cinematography) and Honorary Members.

Address inquiries to: the address above.

Ampex Corp., 401 Broadway, Redwood City, CA 94063 (415) 367-2011

Ampex Audio/Video Systems Div. offers a complete range of videotape recording equipment from helical recorders for industry, education, business, and government use to quadruplex studio video recorders for broadcast and teleproduction use. Included also are portable and back pack videotape recorders; disc recorders for stop-action, slow motion, color animation and teleproduction; color studio cameras; and closed circuit television cameras and accessories. A corresponding complete line of audio tape recorders is also offered from 24-channel frame synchronized production recorders through 16-, 8-, 4-, and 2-channel versions, and monaural and stereo recorders for broadcast and studio applications. The Ampex Magnetic Tape Div. manufactures magnetic tape for broadcast and closed circuit videotape recording, professional and consumer audio recording, computer data storage, and instrumentation recording.

Address inquiries to: Advertising and Sales Promotion Department, M/S 11-12, at the address above.

Howard A. Anderson Co., 5451 Marathon St., Hollywood, CA 90038 (213) 463-0100

Since 1941, this firm has been one of the foremost producers of special photographic effects in the motion-picture and television industries. Facilities are located at Paramount Studios, 5451 Marathon St., Hollywood, CA. This is a service organization equipped with the finest aerial-image optical printers and production insert camera facilities obtainable, and staffed with Hollywood's top creative craftsmen to service the title, optical, insert, matte, animation and trick effects required by the industry's producers.

Address inquiries to: the address above.

Angenieux Corp. of America, Inc., 440 Merrick Road, Oceanside, NY 11572 (516) 678-3520

Angenieux Corp. of America is the sole distributor and factory representative for Angenieux lenses in the Western Hemisphere. It has established a closer relationship with the American market, and therefore has been better able to satisfy the requirements of the North American motion-picture and television industries. As a leader in the field of quality optics, Angenieux is known for its outstanding selection of lenses with zoom ranges up to 20:1, extreme wide angles, very high apertures and close-focusing capability. New lenses, more recently introduced, are a compact, extreme wide-angle 5.9mm, $f/1.8$ fixed focal-length lens; a high aperture, wide-angle, extreme close focusing 6×9.5 , $f/1.6$ - $f/2.2$ zoom lens for 16mm cine cameras; a wide-angle, extreme close focusing 6×20 $f/2.6$ zoom lens for 35 mm cine cameras; a 15X, $f/1.6$ (1-in Plumbicon™) television broadcast studio zoom offering unparalleled performance, including the closest focusing and greatest magnification yet available while maintaining its full zoom capability; and remote-controlled range extenders that are positioned instantaneously without a shift in back focus; and an 18X, $f/2$ (1¼-in Plumbicon™) high-speed, long focal length turreted remote zoom lens with electrically positioned range extenders allowing a range coverage of 1000mm to 27.5mm in 1 second. Research and development are continuing to assure the industry of the greatest value possible from modern optics available either as quality lenses or precision optical mechanical systems. Angenieux is also represented by Angenieux Service Corp. of California, established to support the service requirements of the West Coast motion-picture and television industries. Located at 13381 Beach Ave., Venice, Ca. (phone (213) 821-5080), it has complete service facilities, including factory test equipment, factory trained technicians and complete parts inventories to cover all Angenieux motion-picture and television lenses.

Address inquiries to: John Wallace, General Manager; Bern Levy, Motion Picture Sales Manager; Ken Rice, Broadcast Television Sales Manager; Paul Foote, Technical Director; at the address above.

Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy (West), Woodside, New York, NY 11377 (212) 932-3403

As sole United States agents for the complete line of professional motion-picture equipment manufactured by Arnold and Richter, Munich, Germany, the firm has been especially active with the Arriflex 16, Arriflex 16BL and the Arriflex 35 which are known for the Arri mirror shutter reflex system and other features including adaptability for handheld work to studio use. Other equipment imported by the company ranges from studio lights to commercial film processing machinery. Of special interest are a series of Arri Silver Recovery Plants, with recovery capacities ranging up to approximately 10 oz. of silver per hour, and a series of imported lenses ranging in focal length from 5.7mm to more than 600mm, by manufacturers including Schneider, Rodenstock, Taylor Hobson Cooke, Kilfitt and Zeiss. Arriflex also handles tripods, magazines, motors, blimps, varifocal lenses, cases and other accessories. Arriflex Co. is also sole agent for the Arrivox-Tandberg, a ¼-in tape recorder, developed by Arriflex and Tandberg for synchronous sound filming, and for the Sonorex Double/16, a 16mm double-system interlock projector, that offers extensive facilities for the professional filmmaker.

Address inquiries to: Bruce E. Harris, Exec. Vice President, at the address above.

The Association of Cinema Laboratories, Inc., Suite 607, 901 N. Washington St., Alexandria, VA 22314 (703) 683-5457

Founded in 1953, the ACL provides an opportunity for the discussion and exchange of ideas in connection with the technical, administrative and managerial problems of the motion-picture laboratory industry. The Association is concerned with government relations, public and industry relations, product specifications, improvement of technical practices and procedures, and other interest areas for film laboratories. There are two types of membership: Members, who must be primarily in business as motion-picture film laboratories; and Associate Members, who may be any non-laboratory firm with allied interests in the work and objectives of the Association.

Address inquiries to: the address above.

Association of Motion Picture & Television Producers, Inc., 8480 Beverly Blvd., Los Angeles, CA 90048 (213) 653-2200

The Association of Motion Picture and Television Producers, Inc., was organized in 1924 as the Association of Motion Picture Producers, comprising 10 major producers of theatrical motion pictures. In 1964, the Alliance of Television Film Producers, and in 1966, the Society of Independent Producers, merged with AMPP to form the present AMPTP. The AMPTP now has 73 member production companies. Chairman of the Board of AMPTP is Lew R. Wasserman; president is Jack Valenti; and executive vice-president is Billy H. Hunt. Hunt is the Association's chief executive and operating officer. The Association functions in the following major areas: It handles contract negotiations and labor relations on behalf of its member companies with more than 40 Hollywood guilds and unions. It serves as the industry's legislative advocate in the California state government, the county and local governments in the Los Angeles area, and with the federal government regarding film production problems. It maintains a public relations department to serve as the public relations agency for the motion picture production industry and on behalf of its member companies regarding industry-wide activities; and to give public relations support to industry-wide organizations such as the Permanent Charities Committee of the Entertainment Industries, the Motion Picture and Television Fund; and the various health and welfare funds and pension plans. The Association administers the Contract Services Administration Trust Fund which handles the industry experience roster and operates apprenticeship and training programs, qualification committees, minority employment programs and an industry-wide safety committee. The Association represents its member companies in the area of minority and human relations, and participates in the administration of all industry pension and health and welfare plans. The Association operates the Motion Picture and Television Research Center which instigates and applies technological research to the various technical phases of motion picture production. The Association operates Central Casting Corp. as a wholly-owned subsidiary, providing the industry with the casting of extra players, and data processing services.

Address inquiries to: the address above.

Atlab Film Laboratory Service, Television Centre, Epping, N.S.W., 2121, Australia (02) 85-0224; Telex: AA20250

Atlab provides a complete film laboratory service in Eastmancolor, Ektachrome and black-and-white printing and processing in 35mm, 16mm and 8/super 8 gauges. Equipment includes two Hazeltine Electronic color film analyzers, 35mm and 16mm Bell & Howell Model C additive printers, Oxberry optical effects printers with liquid gates and additive lamp housings, individual processing machines for Eastmancolor negatives and positives plus a 35mm/16mm CRI 1 machine for the processing of Eastmancolor reversal intermediate type 7249/5249, separate spray processors for black-and-white negative, 16mm and 35mm positive, dual 16mm black-and-white reversal machines, full facilities for mixing and recording using 12 channel autolooping system for 35mm or 16mm, optical sound recording using RCA 35mm and 16mm recorders. Atlab has facilities for the printing of super 8mm release prints from a 16mm inter-negative by reduction using a Hollywood Film Co. super 8 reduction printer. Atlab is also a licensed Technicolor loading station and can load cassettes for Technicolor with either magnetic or optical sound. The laboratory offers full editing, negative matching, and other production facilities, including titling and animation requirements. Atlab is a division of the largest metropolitan television network centre in Australia which includes three live television studios and one film recording studio equipped with the Electronic-Cam system for recording programs on film using television techniques. All operations are closely controlled by full time engineering staff and regular participation in Eastman Interlaboratory Surveys.

Address inquiries to: the above address.

Atlas Projector Corp., 10407 Washington Blvd., Culver City, CA 90230 (213) 838-1107

This firm manufactures interlock forward/reverse projectors for automatic or manual control with magnetic and optical solid state sound and ozone free 500-W ellipsoidal xenon or incandescent light source for producers, directors, screening room and home installations. Reel capacity is 3000 ft for composite film and 2000 ft for picture and track. Accessories include: remote focus, remote framing and selsyn motors to drive projector from a distributor.

Address inquiries to: the address above.

A.V.E. Corp. 250 West 54th St., New York, NY 10019 (212) 757-0552

Consultants, designers and manufacturers of professional audio-visual equipment and systems. Specialists in 16mm, 35mm and super-8 motion-picture and television projectors, xenon light sources, high-powered slide projectors, horizontal filmstrip projectors, programers and dissolve devices, automation, and complete audio-visual installations and multimedia complexes. Originators of the SP/35 Techniscope contact print projector and the XLP-16 and XLP-35 Xenon Long Play projectors. Equipment rental and leasing service available.

Address inquiries to: Clifford Van Praag or M. M. Bahn, at the address above.

Bach Auricon, Inc., 6946 Romaine St., Hollywood, CA 90038 (213) 462-0931, 462-2791

The firm has manufactured sound-on-film recording equipment since 1931. Products include the Auricon™ line of 16mm Sound-on-Film Recording Cameras, with associated recording accessories; Datasync Photo-tape™ electronic-optical data-recording equipment; and Auricon TV-T™ Video-Film Recording Equipment. Bach Auricon sound-recording equipment consists of the Modulite™ line of Optical Sound-on-Film Galvanometers for either variable-area or variable-density recording, and the Auricon Filmagnetic™ Recording Systems for single- or multiple-track magnetic recording on prestripped 16mm films.

Address inquiries to: Walter Bach, President; H. Stephens, Customer Technical Service, at the address above.

Ballantyne of Omaha, Inc., 1712 Jackson St., Omaha, NB 68102 (402) 342-4444

Shortly after the advent of sound motion pictures, Ballantyne of Omaha, Inc. was established in 1932 in Omaha, Neb., by R. S. Ballantyne to manufacture soundheads for use in professional 35mm theater projection booths. During World War II its entire output of theater sound systems and speaker systems was purchased by the U.S. Army and Air Force Service. Following the War, in the late 1940's, Ballantyne became a specialist in drive-in theater equipment, furnishing high-wattage amplifiers and sound systems, as well as the in-car speakers. They bought the Gardiner Projector Co., and for a short time continued to market its products. Later, they marketed the BW projector, manufactured by the Wenzel Company. In 1961 the Company was sold to ABC Consolidated of New York which in turn merged with Odgen Corporation in 1967. During this period Ballantyne introduced to the United States the Norelco FP20 35 mm Projector, manufacturing parts of the projector as well as parts of the Norelco AA2 35/70mm projector. In March of 1970, a group of investors, headed by J. R. Hoff who had been with the company since 1945, and E. J. Nelson, who joined the company in 1952, re-purchased the company from Odgen. In February, 1971, the company introduced to the trade the PRO-35, the first new American-manufactured projector in over 25 years. Coincidentally, they introduced a completely new Model 7 Sound System, and both the PRO-35 and Model 7 are now in hundreds of theaters throughout the United States and the world. The complete projector and sound system were specifically designed for use with automation, and Ballantyne now supplies a complete automated equipment package for use by any size theater. In June 1972 Ballantyne introduced the V.I.P. total projection system. Each projector system contains everything needed for sound, light and picture. Plug-in cables make installation a matter of a few hours. Products are distributed through selected theater supply dealers in the United States and Canada and marketed world-wide by selected exporters.

Address inquiries to: Mr. E. J. Nelson, at the address above.

Bausch & Lomb Inc., Bausch St., Rochester, NY 14602 (716) 232-6000

The company manufactures a complete line of optical, electronic and mechanical products in the fields of ophthalmic materials, scientific instruments and photographic lenses. Products include the BaICOLD Reflector, CinemaScope and Super Cinephor projection lenses, and a high resolution, minimum distortion Super Baltar series of motion-picture camera lenses. The firm also manufactures lenses for television cameras, both regular and radiation-resistant for nuclear use. The company has available a series of long-focal-length lenses ranging from 20 to 80 in. EFL for tracking reconnaissance and related fields. Bausch & Lomb

has complete capabilities and facilities to manufacture lens systems, individual optical parts, or filters on a special order basis, in addition to its standard products. For example, an extensive line of copy lenses and microfilm lenses are manufactured on special order. Of special interest are the firm's capabilities in the field of dichroic color separation and heat-control filming.

Address inquiries to: Herb Lettau, Mgr.-Mktg. Comm., at the address above.

Bell & Howell Co., 7100 McCormick Rd., Chicago, IL 60645 (312) 262-1600

Bell & Howell Company manufactures a variety of products for the photographic equipment markets. Bell & Howell's Professional Equipment Division designs and manufactures film printing and processing equipment for motion-picture and microfilm laboratories. Equipment includes automatic tape-controlled, additive color printers for super-8, 16mm, 35mm, 35/32mm, and 65/70mm film sizes. Similar units are available as automatic black-and-white printers capable of conversion to color, as well as manually controlled models for color or black-and-white. Additional products include optical step printers, continuous optical-reduction printers, super-8 magnetic sound recording consoles, film slitters, soundheads, densitometers, pH meters, and a full line of accessories for motion-picture film printers. Bell & Howell also manufactures photographic products for the consumer and audiovisual markets. These products include super-8 and 16mm motion-picture cameras and projectors, including the Film-sound-8 series of cameras and projectors. 35mm slide and filmstrip projectors, overhead projectors, tape recorders and lenses are also manufactured.

Address inquiries to: Professional Equipment Division, at the address above.

Bellevue-Pathé Ltd., 9 Brockhouse Rd., Toronto 14, Ont., Canada (416) 259-7811

The firm is a wholly-owned subsidiary of Bellevue Photo Labs Inc., an all-Canadian company based in Montreal. Bellevue-Pathé offers complete laboratory services for 35mm and 16mm Eastman color and black-and-white. Also there is available a complete range of Ektachrome (ECO3, ME 4) and Gevachrome processing, and printing facilities for these films. Specialized departments include overnight developing and printing of dailies in 35mm Eastman color, Ektachrome, and 35 and 16mm black-and-white, as well as dupes and masters. 35 and 16mm contact and reduction release printing and 8mm printing. Facilities also include a completely new sound recording department with 3 studios to provide music scoring, mixing, and dubbing facilities with 18-channel rerecording consoles, all transfer facilities for magnetic and optical, electrical printing, 16mm and 8mm magnetic striping, edge coding and editing services, and rental of editing rooms.

Address inquiries to: the address above.

Berkey Colortran, Inc., 1015 Chestnut St., Burbank, CA 91502 (213) 843-1200

Berkey-Colortran, Inc., specializes in the engineering, design and manufacture of lighting and lighting systems for motion pictures, television, still photography and specialized photographic applications. Berkey-Colortran has also designed lighting systems for military specifications. Emphasis has been on compact luminaires with related support equipment, including electronic dimming systems. The company has pioneered in the development of an entire line of lightweight, portable and rugged luminaires. The luminaires utilize long-life, constant color temperature, tungsten-halogen quartz lamps to produce high intensities with low current consumption. Gelatran and the Anti-G Hanger have become accepted standards of the industry. A new product recently added is Supersilk, a diffusion material made of a continuous glass fiber weave that will hold up in front of the hottest lights. A complete line of Fresnel Lens Spotlights (1000 W to 5000 W) is now available featuring rear relamping, ring focusing with a movable lens and unique 3-year warranty sockets. The new Medical Light has been recently introduced which produces safe, cool light. A complete line of modular electronic dimmer systems are now available which are supplied in groups of six dimmers. The capacities are 2.41 CW, 3.6 KW and 6 KW per dimmers. System is expandable to 120 dimmers in standard systems or 500 dimmers in custom systems.

Address inquiries to: the address above.

Bonded Services, Div. of Novo Corp., 733 Third Ave., New York, NY 10017 (212) 661-7600

Bonded is engaged in the storage of motion-picture film for the theatrical industry and television industry. The company also has complete shipping, inspection and rejuvenation services for distributors of theatrical motion pictures and for syndicators of TV films. Service is also provided to advertising agencies and others for the procurement of prints of TV commercials and for shipping TV commercials and videotape. The firm also provides 8mm cartridge loading services in New York. Offices for television activity are maintained in Los Angeles, Toronto, Amsterdam, Mexico City, Sydney, Australia, and Hong Kong.

Address inquiries to: Ira S. Stevens, at the address above.

Brenner Photo Co., 5215 Wisconsin Ave., N.W., Washington, DC (202) 244-3800

Continuous growth for better service to the professionals in industry and government prompt us to proudly maintain a complete stock of Arriflex motion-picture equipment and many other lines including Nagra, Auricon, ColorTran, Electro-Voice, Magnasync, Moviola, Omega, Angenieux, Kinoptik, Permacel, etc. Brenner Photo has up-to-date rental inventories in the motion-picture and audio-visual fields and provides for service and repair of major lines of cameras, audio and optical equipment, with design facilities and manufacturing capabilities.

Address inquiries to: C. E. Sorensen, Manager, at the address above.

Byron Motion Pictures, Inc., 65 K Street, N.E., Washington, DC 20002 (202) 783-2700

The "world's most sophisticated laboratory," founded in 1938, offers in one location all producer and laboratory services necessary for the completion of motion picture films: complete 35, 16 and 8mm services; 35mm filmstrip and slide service; complete video tape-to-film and video tape-to-tape services; complete editorial services, including editing-room rentals; complete music library; location and studio sound recording; 35mm and 16mm projection facilities; color reversal printing; Ektachrome optical masters; color negative-positive printing and processing; Ektachrome processing; black-and-white printing; black-and-white spray processing. Videotape services include studio, computer editing, mixing, 2-in tape high-speed duplicating, 3/4-in cassette duplicates, laser beam and electronic beam film recorders. 60,000 ft² under one roof for one of the most complete motion-picture and video laboratories in the world.

Address inquiries to: the address above.

Calvin Communications, Inc., 215 West Pershing Rd., Kansas City, MO 64108 (816) 421-1230

The Calvin Company, founded in 1931, with the birth of 16mm industrial films, continues to specialize in 16mm and 8mm activities and facilities. Production facilities include two completely equipped sound stages. A permanent staff of writers, directors and producers is maintained for all types of industrial, educational and commercial productions. Services for other motion-picture producers include the editing department and an art and animation department which is equipped with both Acme and Oxberry animation cameras and stands. The Oxberry is complete with aerial-image projection. The sound department is equipped with RCA and Maurer sound recorders, to record directly or transfer from magnetic materials. The music department maintains a wide range of cleared library music scoring and sound effects. A full line of production equipment (cameras, lights, recorders, accessories, screens, projectors, etc.) is maintained on a rental and sales basis. The laboratory is complete with facilities for printing and processing black-and-white, negative, positive, reversal, Ektachrome, Ektachrome EF, Kodachrome, and color-positive materials. The processing department has been processing Kodachrome duplicates since 1950. Color internegative and positive processing are offered in addition to black-and-white facilities. High-speed automatically controlled printing and processing equipment is used throughout, practically all of it having been designed and constructed by the engineering department. This department was created shortly after the founding of the company when 16mm equipment was almost nonexistent. An equipment sales and rental group maintains a complete range of production and audio-visual equipment for sales and rental. 8mm release printing is also available. Printing is by high-speed continuous optical reduction printers of Calvin's own design, for both regular and super 8. Magnetic and super-8 optical sound printing is available. Super-8 optical sound facilities include both recording of sound negatives and release printing. All

types of 8mm cartridge loading, packaging, warehousing, and print distribution services are available.

Address inquiries to: the address above.

The Camera Mart, Inc., The Camera Mart Building, 456 W. 55 St., New York, NY 10019 (212) PL7-6977

The Camera Mart, Inc., founded by Irving and Sam Browning more than 30 years ago, specializes in sales, rentals and the repair of professional motion-picture and television production equipment. Under the present management of Samuel Hyman, President; Paul Meistrich, Vice-President; and Anna Browning, Secretary-Treasurer, the Camera Mart has expanded all its facilities by making available only the latest motion-picture production equipment in their rental and sales departments. The Camera Mart has expanded into the videotape industry with the same backup personnel and equipment to handle the service and repair, and has also put on the road a Mobile Location Motion Picture Unit headed by First Assistant Director Gery Rich. The firms represented by The Camera Mart include: Akai Ltd., Angenieux, Arriflex, Auricon, Bell & Howell, Bolex, Canon, Cinema Beaulieu, Cinema Products, Berkey-Colortran, Comrex, Dynasciences, Eastman Kodak, Eclair, Elemack Dollies, Frezzolini, Leopold, Magnasync/Moviola, Maier-Hancock, Minnesota Mining and Manufacturing Co., Mitchell Camera Corp., Nagra, National Cine Equipment, Neumade, O'Connor, Sennheiser, Sony, Sylvania and Zeiss. A subsidiary division, Camart Products, manufactures motion-picture equipment and accessories which include the Optical FX Unit and Rotator Lens, the Camart Add-A-Unit Extension Plate, editing tables, back racks, film editing bins, core dispensers, triangles and specially designed custom equipment. In 1963 Camera Mart sponsored the first professional motion-picture editing seminar and since then has participated in the New York University Award Program by presenting the Irving and Sam Browning Memorial Award to the most promising student in the New York University Motion Picture Department.

Address inquiries to: the address above.

Camera Service Center, Inc., 625 West 54 St., New York, NY 10019 (212) PL7-0906

Long known for the finest maintained rental equipment, and fast courteous handling of all requests regardless of size of order. High-quality repairs are made to manufacturer's specifications. Our engineering staff is available for free consultation and can modify and design special equipment to handle filmmakers specific requirements. Equipments include the tried and field-tested CSC Mirror Reflex BNC II. All features of the original camera have been maintained. The CSC Reflex BNC II is available for rental, or the customer's own cameras can be adapted. Sales equipment is handled by CSC Sales Affiliate, Camera Sales Center Corporation.

Address Inquiries to: J. Clapp, at the address above.

Canon, U.S.A., Inc., 10 Nevada Drive, Lake Success, N.Y. 11040, (516) 488-6700; 3113 Wilshire Blvd., Los Angeles, CA 90010, (213) 384-1138.

Canon, U.S.A., Inc. is a wholly owned subsidiary of Canon, Inc. of Tokyo, Japan. The parent company has been continuously engaged in the development and manufacture of precision optical products since its founding in 1937. Major product lines presently being manufactured to meet the needs of the professional motion picture filmmaker include the Canon Scoopic '16' and Canon Sound Scoopic 200 cameras; each respectively the fastest handling cameras in the world for silent and single-system sound television news coverage, the Canon 12-120mm Macro Zoom Lens; the only professional 16mm zoom optic with the ability to focus to within .04 inch of its own front element, and the new 14-84mm Super-16mm zoom lens; the first new lens to be designed specifically to meet the exacting needs of this film format.

Address inquiries to: East Coast, New York address; West Coast, Los Angeles address

Capital Film Laboratories, Inc., 470 E St., S.W., Washington, DC 20024 (202) 347-1717 (Also 1998 N.E. 150 St., North Miami, FL 33161 (305) 949-4252)

Capital Film Lab. N.Y., Inc., 1619 Broadway, New York, NY 10019 (212) 541-4540

Washington is a motion-picture service center for producers of commercial films. The laboratory is equipped to process and print 35mm, 16mm, Super 8mm and regular 8mm black-and-white negative/positive color

films; also to duplicate 16mm Kodachrome and Ektachrome. Optical sound recording is available using RCA 35mm, 35/32mm, 16mm and Super 8mm recorders. Magnetic recording on 35mm and 16mm is handled with RCA and Westrex recorders, and on 1/4-in tape with Ampex with sync pulse. Two recording studios are available, one with a ten-position mixing console, and the other with nine positions, for narration recording, lip sync dubbing, rerecording and interlock screening. Location recording services are also available. The laboratory offers editorial services, including music and sound effects from an extensive library, as well as fully equipped editorial rooms for the use of customers on a rental basis. Miami is now a complete, fully equipped motion-picture laboratory, offering 35mm negative-positive color, 16mm negative-positive color, 16mm original Ektachrome processing, 35mm black-and-white reversal; optical department equipped with wet-gate printing, for blowup as well as effects; complete editorial and sound facilities are available under one roof, along with 35mm and 16mm screening rooms. Capital Film Lab. N.Y., Inc. is a subsidiary company of Capital Film Laboratories, Inc. It has been set up primarily as a head-end laboratory, capable of processing 16mm ECO/ME4, printing reversal dailies and answer prints, Internegatives, 35/16mm negative-positive answer and release prints, full 35/16mm screening facility. Completely integrated quality control with Washington and Miami laboratories.

Address inquiries to: Washington, Miami or New York.

Carbons, Inc., 10 Saddle Road, Cedar Knolls, NJ 07927 (201) 267-8200

Distributors of Lorraine Orlux Carbons for motion-picture projection and Actina Carbons for the graphic arts. XeTRON Products Div. distributes Cinemeccanica motion-picture projectors, xenon lamphouses, xenon power supplies, xenon bulbs, in addition to the Hortson 16mm professional type motion-picture equipment. Complete theater automation equipment.

Address inquiries to: the address above.

Carolina Photo-Technical Services, Inc., 201 West 23rd St., Charlotte, NC 28201 (704) 333-7187; 639 Wellons Village Shopping Center, Durham, NC 27703 (919) 688-7265

Carolina Photo-Tech is a professional motion-picture laboratory offering film services in both black-and-white and color. Processing services include all 16mm Ektachrome films and super 8 Ektachrome, 16mm black-and-white reversal and black-and-white negative/positive. The company's printing department is equipped for reversal printing of workprints, answer prints and release prints from both black-and-white and color originals. Prints from black-and-white negative and color positive release prints are also available. Carolina Photo-Tech's additional services include editing, edge numbering, titling, sound recording, sound transfers, resolving, music scoring, and narration.

Address inquiries to: 639 Wellons Village Shopping Center, Durham, NC 27703.

Carter Equipment Co., Inc., 1050 W. Florence Ave., Inglewood, CA 90301 (213) 677-6117

Formed specifically to solve the unique problems and satisfy the particular needs of professional motion-picture film laboratories, Carter Equipment Co. currently counts among its customers many industrial and educational organizations as well. Offering manufacturing, modifications and sales representation services pointed at increasing the level of technology in film processing, Carter Equipment Co. manufactures such items as total immersion wet printers (both optical and contact), additive lamp houses (manual valves), printing machine air vacuum squeegees, footage/notch counters and displays, printing machine photometers, soundtrack applicators, automatic rewinds, various electronic power supplies and control devices and numerous other products of operational value to motion-picture laboratories. Coupled with its own product line, Carter Equipment Co. distributes other items such as: Automatic Lumen Output Control systems (ALOC), current sensing alarms, computerized tape punch systems, xenon projection systems, electronic timing devices, Ballantyne 35mm projectors and accessories, Turcite bushings and bearings, processing squeegees, tape splicers, etc. In addition to new equipment, Carter Equipment Co., deals in and performs special design and modification work to both new and used pieces of motion-picture equipment, i.e., wet printing modifications, format changes for super 8, etc.

Address inquiries to: the address above.

Central Film Laboratories (Pvt.) Ltd., 34 Central Ave., Salisbury, Rhodesia.

C.F.L. is a motion-picture film processing laboratory, largely Arriflex equipped for 35mm and 16mm color and black-and-white negative and positive developing, contact, reduction and blowup printing, processing and printing of masters and dupes, neg cutting, Gevachrome normal and high-speed processing. Sound recording studios have facilities for mixing 35mm, 16mm, 17½mm and ¼-in magnetic, 35mm and 16mm optical channels. Editing room has 16mm and 35mm Steenbecks. Complete facilities for newsreel finishing. Full optical and animation facilities. We specialize in A&B and checkerboard printing.

Address inquiries to: Theo Otto, Managing Director, at the address above.

Century Projector Corp., 165 W. 46 St., New York, NY 10036 (212) 245-7048

Century manufactures motion-picture projectors, accessories and parts. Projector mechanisms available are: single (model SA) and double (model DA) rear shutter with 3000-, 6000- and 8000-ft magazines with motor tensioning and rewind features for standard and drive-in theaters; 70/35mm double rear shutter (model JJ); 70/35mm projectors (model JJ) with 4- and 6-channel magnetic and optical soundhead; 70/35mm Cinefocus projectors* (model JJ-3) with film stabilization and UVIR-2 heat and fade control filters; mechanisms designed for integrated assembly; interchangeable components; Cinefocus film stabilizers*; UVIR-2 heat and fade control filters; double-dissolving rear shutters. Single lens concept and aperture changer (flat to anamorphic projection automatically or manually)*. Model C and model D (heavy-duty) pedestals are available for regular theaters and for drive-in theater upward tilt, and special or heavy pedestals are made to order. Stereo equipment includes penthouse reproducers and CinemaScope conversion kits for projector mechanisms and soundheads. Soundheads with Hydroflutter suppressors are obtainable in the R4/TR4-Reverse Scanning standard optical reproducers now supplied with reverse scanning and solid-state silicone photoverters. Also available are 70/35mm and 35mm magnetic reproducers for 1, 4 or 6 tracks; and all transistor amplification systems for optical and 1, 4, and 6 channel magnetic soundtracks. Model JRB-117 20 W and model JRE-100 50 W all transistor power amplifiers with frequency controls, PRC2 projection room automatic controls, TC-1 theater automatic controls, MRC-2 lower magazine automatic-safety controls (solid-state safety stop). Replacement parts are obtainable for all Century projectors. Tools for repairing projector mechanisms, as well as projector oil, are also available. Equipment is exported by Amity International Distributors, Inc., 19 Suffolk St., Freeport, NY 11520

*Patented

Patent applied for

Address inquiries to: the address above.

Century Strand Inc., 5432 W. 102nd St., Los Angeles, CA 90045 (213) 776-4600

The firm designs, engineers, and manufactures lighting systems and equipment for theater, television studio and architectural applications, utilizing tungsten-halogen, conventional incandescent, or arc light sources. Products include Lekolite and Fresnelite spotlights, floodlights, follow spots, and a variety of striplights. The firm produces projection machines for still slides and moving scenic effects; wiring devices including various lengths of connector troughs, plug boxes and switch panels; and lighting accessories such as high hats, barn doors, filters, diffusers, gobos, lamps, and color filters of plastic, glass and gelatine. The firm's portable or permanent dimmers and switchboards incorporate manual or remote control operation utilizing silicon controlled rectifiers. Also supplied are cross connect panels and multiscene presetting. Century's Memo-Q is believed to be the first completely automatic infinite preset lighting control system in operation utilizing a solid-state memory device.

Address inquiries to: the address above.

Cine & Photo Supply Co., P.O. Box 393, Khartoum, Sudan, Africa

This firm and its associates, *Photokina*, are engaged in the distribution of audio and visual equipment. It is the first and only firm in the Sudan dealing in professional motion-picture equipment and stereophonic high-fidelity sound equipment, having pioneered the existing motion-picture industry in the Sudan. Almost all of the professional motion-picture equip-

ment presently in use was supplied by this firm, which is the sole supplier of such equipment to all the Government Ministries and Departments throughout the Sudan. The first professional motion-picture produced in the Sudan was made with the film and equipment supplied by this company. The company is the exclusive Sudan distributors for the following: Arriflex, Rank, Bach-Auricon, Simplex, Bell & Howell, Paulmar, Houston-Fearless, Nagra, Technicolor, Castle (United World Films), Columbia, United Artists, Kliegl, Linhof, Polaroid, Canon, Mamiya, Asahi-Pentax, Olympus, Minolta, Yashica, Elmo, Ricoh, Zenith, Braun, Admiral, G.E., Fuji Film, Akai, Fisher, Electro-Voice, Pioneer, Ortofon, Shure, Thorens, Honeywell, Sawyers, GAF, Silma, Da-Lite, Mallory, Westrex, Acmade, Uher, Ianiro, Seiko, Rolleiflex, Eumig, Sonnenschein, Dynacord, Durst, and Dual. The firm maintains factory-trained technicians and engineers for the repair and service of projectors and other motion-picture equipment. In addition to pioneering the country's motion-picture industry, the company is engaged also in the production and distribution of motion-picture films. The firm was the first SMPTE Sustaining Member in Africa.

Address inquiries to: the address above.

Cineffects Inc., 115 West 45 St., New York, NY 10036 (212) 246-0951

This company, established in 1939, has grown at a steady rate through the years, and is the largest independent optical house in the East. It specializes in blue matte, wet gate blowup and optical and animation services, and is completely equipped including 12 modern optical printers and three animation stands. Its latest addition is the ability to blow up from standard 8mm or super 8 to 16mm or 35mm color and black-and-white. The firm has a well rounded art and animation department, a stage for insert photography and up-to-date developing equipment. All of the above makes the company completely self-contained and able to provide the needed services under one roof to meet today's time and quality demands.

Address inquiries to: the address above.

Cinema Processors, Inc., 211 E. Grand Ave., Chicago, IL 60611 (312) 642-6453

Cinema Processors, Inc., offers complete 16mm and super-8 black-and-white and color processing, printing and associated services for television, educational and industrial usage. The firm maintains an experienced staff organized particularly for guaranteed quality and schedules.

Address all inquiries to: the address above.

Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025 (213) 478-0711

Cinema Products Corp. is engaged in the design, development, and manufacturing of 35mm and 16mm professional motion-picture camera equipment, with heavy emphasis on advanced technology. Original product line featured reflex conversions of BNC, NC, and high-speed cameras, using Cinema Products' Academy Award-winning pellicle technique. Present product lines include: the Academy Award-winning J-4 "joy stick" zoom control for all 16mm and 35mm motion-picture cameras and lenses; CP-16 and CP-16/A 16mm TV-news/documentary motion-picture camera systems, featuring the Crystasound Recording System (with built-in amplifier) for single system and double system sound recording; the 3XL record/playback magnetic head; the Crystasound auxiliary mixer, plus a wide range of additional professional accessories for the CP-16 camera system; the Academy Award-winning model CRA-6 and model CRA-6/A crystal controlled motor for the Arri 35; Crystalok, the Crystal-controlled motor controller for the Arri 16-BL; crystal controlled motors for Mitchell BNC/NC/S35R Mark II cameras; the newly introduced lightweight, silent XR35 studio 35mm motion-picture camera; the XR150 fluid tripod head; crystal control module for Nagra III and IV models; a complete line of lightweight location-type quartz lighting, including the Aero-Kit with two focusing spots and one focusing broad plus accessory equipment; the company also provides a complete line of retro-focus, fixed focal length, and zoom lenses from manufacturers such as Bausch & Lomb, Kowa, Angenieux, and Canon. Cinema Products Corp. is also exclusive U.S. distributor of the Academy Award-winning Canon K-35 25-120mm Macrozoom lens, plus high-speed fixed focus Canon aspheric lenses (such as the Canon 55mm aspheric lens).

Address inquiries to: Ed DiGiulio, President, or Peter Waldeck, Marketing Manager, or Abbott Sydney, Field Sales Manager.

Alex L. Clark Ltd., 3751 Bloor St. W., Islington M9A 1A2 Ont. Canada (416) 231-5691

The firm specializes in professional motion-picture products. It is the exclusive Canadian representative of Angenieux, Bach Auricon, Cir Guil-lotine Splicers, Century Precision Cine/Optics, Eclair Cameras, CP-16 Cameras, Frezzolini Electronics, Inc., Goldberg Reels & Cans, Maier-Hancock Hot Splicers, Magnasync/Moviola, Mole-Richardson, National Cine, Palmer Projectors, Photo Research Corp., Stellavox Recorders and Mixers and many others. Branch offices are located at 7104 Hunterwood Rd. N.W., Calgary, Alta., and at 1070 Bleury St., Montreal 128, Que. Canada.

Address inquiries to: Gerry Quinney, Vice-President, at the address above.

Geo. W. Colburn Laboratory, Inc., 164 N. Wacker Dr., Chicago, IL 60606 (312) 332-6286

The Geo. W. Colburn Laboratory offers professional laboratory services to industrial and educational film producers. Printing and processing services include 16mm contact, super-8 contact, regular 8mm contact, super-8 and regular 8mm reduction from 16mm, 16mm enlargement from super-8 and regular 8mm, super-8 enlargement from regular 8mm, regular 8mm reduction from super-8, and special optical masters. Producer services include 16mm film editing, narration recording, music library, magnetic sound transfer to optical tracks, and preparation of 16mm titles. Other services include slide duplication, filmstrip animation, and filmstrip printing. New super-8 services include super-8 contact printing from super-8 A&B rolls with fades, dissolves, and density corrections and preparation of super-8 titles. All of the laboratory's contact and optical printers have been designed by George W. Colburn and built by the laboratory's engineering staff.

Address inquiries to: Allen F. Hilliard, at the address above.

Color Reproduction Co., 7936 Santa Monica Blvd., Hollywood, CA 90046 (213) 654-8010

Color Reproduction Co., in operation since 1939, is a 16mm motion-picture laboratory specializing in high-quality 16mm color prints offering complete 16mm printing, additive model "C" printers. Complete color-corrective printing on originals and internegatives. Internegative and color-positive processing. Special services include electroprinting, electronic cuing, no notching of originals, ultrasonic cleaning, yellow edge numbering, laminating, permafilm and Tuff coating treatment, print through footage numbers available for A-V films. Editing rooms or suites available.

Address inquiries to: Wm. (Fitz) Fitzpatrick, at the above address.

Colorfilm Pty. Ltd., 35 Missenden Rd., Camperdown, NSW 2050 Australia (02) 51-3208, Telex Color AA 24545

Laboratory facilities for feature and other production release printing, television news and commercials, industrials, etc. Hazeltine color grading 35mm and 16mm Eastman color and black-and-white, 16mm Ektachrome and black-and-white reversal, complete sound transfer service. Oxberry optical printing with aerial image and wet gate negative matching and editing facilities, customs bond import/export service.

Address inquiries to: The Manager, at the address above.

Columbia Broadcasting System, Inc., 51 W. 52 St., New York, NY 10019 (212) 765-4321

Columbia Broadcasting System, Inc., through its divisions, is active in a number of areas within the range of SMPTE cognizance. The CBS Television Network and CBS Television Stations Divisions are concerned with all phases of live, tape and film preparation and utilization in broadcasting service. The CBS News Div. is concerned with special film and tape applications in the field of "electronic" journalism. The CBS Laboratories Div. conducts research and development projects in the photographic, electronic and optical fields for both civilian and military industry research programs.

Address inquiries to: Joseph A. Flaherty, General Manager, Engineering and Development, at the address above.

Conrac Corp., Conrac Div., 600 North Rimsdale Ave., Covina, CA 91722 (213) 966-3511

Conrac is leading manufacturer of professional and industrial video monitors. Beginning in the infancy of widespread commercial television in the United States, Conrac has pioneered many technical developments in video displays. Conrac currently supplies both color and monochrome units for broadcast, educational and closed circuit television applications internationally, as well as for computer data display applications.

Address inquiries to: the address above.

Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038 (213) HO 2-3161; 333 N. Michigan Ave., Chicago, IL 60601, Suite 312 (312) MI 1-0028; 15 Columbus Circle, New York, NY 10023, Suite 914 (212) LT 1-1090

Consolidated Film Industries, division of Republic Corp., a motion-picture processing laboratory for over half a century, is now a complete post-production facility offering all 35mm and 16mm laboratory services; production and release printing of 35mm, 16mm, and super-8mm Eastman color or black-and-white; 16mm Ektachrome commercial and high-speed Ektachrome film processing; 16mm black-and-white reversal processing and printing; Kodachrome printing; super 16mm processing. Other services include *Title & Optical Work*, including main and credit titles; artwork, optical effects; animation photography and filming of inserts; *Filmstrips*, including creation of filmstrips from any size transparencies, photographs, or artwork; addition of numbered frames, arrows, circles, or other special marks in frame and filmstrip release printing, slides and slide duplicating; *Complete Videotape Services*, including videotape-to-film transfers, film-to-videotape transfers; videotape duplicating to any size required; videotape mixing and transfers from film or videotape material (any size) to cassettes; distribution service; and *Sound Services*, (Glen Glenn Sound Co.), including rental of production sound equipment and/or personnel, transfers of daily material, dubbing and scoring facilities; optical soundtracks and rerecording.

Address inquiries to: Consolidated Film Industries, Business Affairs and Sales, at Hollywood address above.

DeLuxe General Inc., 1546 N. Argyle Ave., Hollywood, CA 90028 (213) 462-6171; 1377 N. Serrano Ave., Hollywood, CA 90027 (213) 466-8631; 1000 Nicholas Blvd., Elk Grove Village, IL 60007 (312) 569-2250; 630 9th Ave., New York, NY 10036 (212) 247-3220

DeLuxe General processes all types and widths of motion-picture film for feature and television release, television commercials, and all areas of the broad nontheatrical field. Laboratory services include printing and processing of 70mm, 35mm, 16mm and 8mm Eastmancolor, Ektachrome and Kodachrome; reduction printing from 35mm to 16mm, 16mm to 8mm and blowup printing from 16mm to 35mm and 35mm to 70mm. Videotape to film transfers, 16mm and 35mm filmstrip printing. Full sound services. Large volume 16mm release printing is done by DeLuxe General's exclusive 35/32mm method. The Chicago office offers warehousing and stockpiling services to DeLuxe General customers.

Address inquiries to: Vice President Sales, 1546 N. Argyle Ave., Hollywood, CA 90028; Vice President, 1000 Nicholas Blvd., Elk Grove Village, IL 60007; Sales Manager, Precision Film Laboratories, Inc., an affiliate of DeLuxe General, 630 9th Ave., New York, NY 10036.

Walt Disney Productions, 500 S. Buena Vista St., Burbank, CA 91505 (213) 849-3411

The firm is a broadly diversified company originally formed in 1923 when Walt and Roy Disney started a partnership to make cartoon movies. It produces films for theatrical release and for its television series, *The Wonderful World of Disney*. The firm also operates Walt Disney World, a vacation resort near Orlando, Fla., and Disneyland, an amusement theme park in Anaheim, Calif. It handles domestic distribution of all its pictures through its wholly-owned Buena Vista Distribution Co. Through its architectural and engineering wing, WED Enterprises, the organization creates, designs and manufactures its new amusement attractions. The company also owns and operates the Celebrity Sports Center in Denver. Other activities include the licensing of Walt Disney characters for merchandising purposes, 16mm film distribution and the production of phonograph records. The studio area occupies a 51-acre site and consists of some 53 separate structures. Among these are the Animation, Inking

and Painting, Camera and Cutting Buildings and the Process Laboratory. There are four live-action sound stages, three recording stages for orchestra, sound effects and dialogue, an ultra-modern theater and restaurant complex. A permanent staff of about 18,000 is maintained for all branches of the company and during the peak seasons at Disneyland and Walt Disney World the staff increases to some 20,000.

Address inquiries to: the address above.

Dolby Laboratories Inc., 1133 Avenue of the Americas, New York, NY 10036 (212) 489-6652

Dolby Laboratories Inc. manufactures products incorporating their professional (A-type) noise reduction system, and licenses their simpler consumer (B-type) noise reduction system to manufacturers in the home entertainment industry. The A-type units are used for audio noise reduction in professional tape recording, broadcasting, and magnetic film applications. The Model 364 Cinema Noise Reduction Unit has been developed for use with encoded Dolby optical sound tracks.

Address inquiries to: (US) Morley Kahn, V. P., Manager U.S. Operations, at the address above. (Rest of world) Ioan Allen, Marketing Manager, Dolby Laboratories, Inc., 346 Clapham Rd., London SW9, England (Tel. 01-720 1111).

Du Art Film Laboratories, Inc., and Du Art Color Corp., 245 W. 55 St., New York, NY 10019 (212) PL7-4580

The Du Art Film Laboratories was founded in 1922. Its subsidiary, Du Art Color Corp., was founded in 1950 for the processing of Eastman color film. The company offers complete black-and-white facilities, including 35mm and 16mm negative developing and release printing and magnetic-to-optical sound printing. 35mm and 16mm black-and-white reversal prints on Eastman 7360 and 5360 available. Color capabilities include developing 35mm and 16mm color negatives; processing all types of 35mm and 16mm Ektachrome original and prints; processing original 16mm Gevachrome camera films types 6.00 and 6.05 and Gevachrome 9.02 prints; printing and processing Eastman color reversal intermediate types 7249 and 5249; 35mm and 16mm negative/positive color printing; blowups; 35mm and 16mm internegatives. 8mm and Super 8mm facilities include contact step optical and continuous optical printing with magnetic sound, in color and black-and-white. Color slide film processing; Ektachrome, Gevachrome and Kodachrome scene-to-scene color balanced printing; and reduction color printing. Du Art Sound Studios: Mix facilities for 16mm picture, 16 or 35mm tracks, six dubbers, eight input mix console, mixing onto 3-track 35mm full coat. Complete interlock for pickup recording. Acoustically isolated recording booth for narration recording or post dubbing. Sound transfers to 16mm and 35mm optical or magnetic track, and ¼-in tape. Complete playback facilities include 16mm center track (European) mag, and 50 Hz (European) ¼-in sync tapes to 24 or 25 frames/s mag.

Address inquiries to: Paul A. Kaufman, President, Robert M. Smith, 1st Vice President, Bernard Kamber, Vice President, Sales and Paul Jaeger, Sound Department, at the address above.

Victor Duncan, Inc., 11043 Gratiot, Detroit, MI 48213 (313) 371-4920; 676 St. Clair, Chicago, IL 60611 (312) 321-9406; 2659 Fondren, Dallas, TX 75206 (214) 369-1165

The firm is a completely equipped rental, sales and service company, specializing in professional motion-picture cameras and accessories, operating repair and maintenance facilities for all professional cameras in Chicago, Detroit and Dallas. It markets a variety of accessory equipment for cameras, including supports and cradles for zoom lenses, a unique handgrip for the Eclair NPR camera and 12-V heater barneys for the popular 35mm and 16mm location cameras. Extensive rental inventories include all popular 35mm and 16mm production and news cameras. These include the new CP-16, the Canon Sound Scoopic, the Photo-Sonic high-speed cameras, the Mitchell SPR/BNC and all popular professional gear. Editing equipment is available for rental in all offices. All popular motion-picture equipment, both new and used, is available for sales through all offices. A comprehensive sales catalog, as well as a current rental catalog, is available upon request.

Address inquiries to: Norman L. Bleicher, Customer Relations Dept., at the Detroit address above.

E. I. du Pont de Nemours & Co., Inc., Photo Products Dept., Wilmington, DE 19898 (302) 774-2421

Du Pont Photo Products Dept. manufactures a broad line of products of interest to the photographic, electronic, instrumentation, medical and other industries. Included are equipments for microimaging, data recording, engineering reproduction and drafting. Other products include professional photographic films, papers, chemicals and equipment; medical and industrial x-ray films, intensifying screens, chemicals and film handling equipment; graphic arts films, proofing papers, chemicals, photopolymer printing plates and automatic processing equipment; chromium dioxide magnetic tape for instrumentation, audio and video use and specialized analytical, medical and process control instruments. Also available are thick film compositions, a dry photoresist, and packaging system for hybrid microcircuit electronics.

Address inquiries to: Product Information, at the address above.

Dymat International Corp., 2225 Colorado Ave., Santa Monica, CA 90404 (213) 828-9585

Dymat International Corp. is a high-technology photographic company. It performs research and development work for the U.S. Government and develops proprietary film products and processes.

Dymat Motion Picture Laboratories. 2704 West Olive Ave., Burbank, CA 91505 (213) 846-7262, a division of the company, specializes in audio-visual motion-picture film laboratory services. It processes and prints 8mm, super 8 and 16mm film. The Laboratory has color and black-and-white contact and reduction printing capabilities as well as extensive sound transfer, film lubricating and cartridge facilities. Founded in 1952, the Laboratory offers complete in-house capabilities for all these services. Consistent high-quality performance by the Laboratory has resulted in servicing accounts around the world.

Dymat Photomatrix Corp., 2225 Colorado Ave., Santa Monica, CA 90404 (213) 828-9585, a subsidiary of the company, performs development and engineering services for clients wishing to produce products that utilize film. The company has had extensive experience in developing motion-picture film and microfilm handling equipment. The company has developed and manufactures microfiche retrieval systems, rear screen audio-visual projectors, flight simulation equipment and its own Apex Exposure Control System.

Address inquiries to: the Santa Monica address above.

Eastman Kodak Co., 343 State St., Rochester, NY 14650 (716) 325-2000

Eastman Kodak Company's main offices, plants and research laboratories are located at Rochester, N.Y. Founded in 1880 and known throughout the world as one of the great pioneers in the field of photography, the company's sales total for 1972 was \$3.47 billion. Besides the headquarters in Rochester, regional centers and subsidiaries are maintained at various locations throughout the United States and in many other countries. At the end of 1972 Eastman Kodak reported a worldwide employment total of 114,800 with employment in the United States at 69,900. During the year, a number of new products were introduced, including pocket Instamatic cameras and projectors for amateur photographers. Other categories of Kodak products include: (a) films, chemicals and equipment for the motion-picture and television industries; products for nontheatrical and informational film-makers in education, business and industry; (b) commercial and professional photographic products such as films, papers, sensitized plates, processing chemicals and equipment for: graphic arts; photofinishing; microrecording and information handling; office copying and duplicating; medical, dental, and industrial radiography; science, instrumentation and defense; (c) amateur photographic products such as films, cameras, projectors and photographic accessories for still pictures and home movies; color print and processing services; processing chemicals used in home darkrooms; (d) fibers, plastics, and industrial chemicals such as man-made fibers for apparel and home furnishings; cigarette filter material; plastics for a wide range of items, for decorative sheeting, for packaging and wrapping; dyes, plasticizers, acids and other industrial chemicals; and special products such as vitamin concentrates; distilled monoglycerides; organic chemicals; and work for the government.

Address inquiries to: Motion Picture and Education Markets Div.

Eclair Corp. of America, Eastern Office: 62 W. 45th St., New York, NY 10036 (212) 869-0490; Western Office: 7262 Melrose Ave., Los Angeles, CA 90046 (213) 933-7182

Manufacturers and distributors of professional 16 and 35mm cameras and accessories. Cameras include the lightweight, low-profile ACL and NPR silent blimpless reflexes, available in standard and super-16mm formats, with 400-ft capacity quick-change magazines (ACL has 200-ft and 400-ft). Accessories include a wide variety of zoom and fixed focal-length lenses, sync motors, rechargeable battery packs, carrying handles, cases, etc.

Address inquiries to: Leo Lukowsky, Executive Vice-President.

Electro Sound, Inc. (A subsidiary of Viewlex, Inc.), 725 Kifer Road, Sunnyvale, CA 94086 (408) 245-6600

Electro Sound manufactures a complete line of high-quality sound equipment for theaters and studios, film transports and film duplicating systems, and high-speed magnetic tape duplicating systems. On April 15, 1971, their Series 8000 Theatre Sound Systems won an Academy Award for professional excellence from the Academy of Motion Picture Arts and Sciences. Electro Sound film transports, employed as sound dummies, master recorders, and high-speed film duplicators, were designed to handle 70mm films; other versions — 16mm, 35mm, or convertible between both 70 and 35mm — were then assembled on the same basic structure to provide sturdy and precise equipment. When used as film duplicators, magnetic soundtracks can be simultaneously duplicated on as many as five release or work prints at four times the normal film speed. These transports are unsurpassed as master recorders, because of extremely low flutter and absolute timing accuracy. A complete array of magnetic tape duplicating equipment provides every item needed for a fully operating duplicating facility.

Address inquiries to: Customer Service, at the address above.

Elmo Co., Ltd., No. 6, 1-chome, Kamiho-dori, Mizuho-ku, Nagoya, Japan

The company is the oldest Japanese manufacturer of motion-picture equipment, founded in 1921 by the President, Hidenobu Sakaki. Elmo has developed and produced 8mm cameras, 8mm projectors and 16mm projectors of unique and original design. The recent Elmo products are represented by a super-8 camera, Models super 204T and super 110; a single-8 camera, Model 8S-40T; an 8mm silent projector, Model VP-A Dual-Filmatic, which accepts super-8, single-8 and regular-8 films; an 8mm sound projector, Model ST-1200, which accepts super-8 format film and permits the use of a large reel accommodating 1200 feet (360 m) of film; and a 16mm sound projector, Model Filmatic 16-A. In addition to these representative models, current production includes motion-picture equipment for TV station, slide projectors, overhead projectors, editing and splicing equipment, and educational audiovisual equipment. Besides the general office and factory located in Nagoya, Elmo has nine branch offices in major cities of Japan, two subsidiaries, Elmo (Europe) GmbH, in Dusseldorf, West Germany and Arrow Photographic Equipment Ltd., in Toronto, Canada, and two foreign branch offices in Denver and New York, U.S.A. Its products are distributed in more than 70 countries under the brand name Elmo through exclusive distributors, such as Honeywell, Inc., in the United States.

Address inquiries to: the address above.

F&B/Ceco, Inc., a division of F&B/Ceco Industries, Inc., 315 W. 43rd St., New York, NY 10036 (212) 586-1420

F&B/Ceco, Inc. offers complete rental departments supplying 16mm, 35mm and high-speed cameras; quartz, incandescent and arc lighting generators; grip equipment, sound, editing, 16mm and 35mm incandescent and xenon projectors; video tape equipment, and the popular Cecomobile, a four-wheel-drive studio on wheels. New rental equipment now available includes the 35mm Arriflex BL, Eclair ACL, pellicle reflex BNC with video pickup, Anton-Bauer battery system, Canon Macro Zooms, Prevost horizontal editing table, Inter cinema solid-state sound reader, Nagra IV sync stereo and pocket-sized SN recorders, and new lightweight quartz soft lights. Experienced personnel are always available to help the producer plan a 10-second commercial or a full-length docu-

mentary or feature film. Full maintenance shops are staffed by expert technicians for custom designing repairs and service work.

Address inquiries to: the address above.

F&B/Ceco of California, a division of F&B/Ceco Industries 7051 Santa Monica Blvd., Hollywood, CA 90038 (213) 466-9361

F&B/Ceco of California offers the same services and rental equipment as F&B/Ceco, Inc., in New York City plus the F&B/Ceco Editing Center on North Highland Ave. The Editing Center has 25 completely equipped, air-conditioned cutting rooms, a large modern screening room, production offices and a 40- X 60-ft stage. The Cecomobile building also has production offices and conference rooms available for rental.

Address inquiries to: the address above.

Fairchild Industrial Products, 75 Mall Drive, Commack, L.I., NY 11725 (516) 864-8500, West Coast Office: 5921 E. Shiela St., Los Angeles, Calif. 90022 (213) 723-9601, Midwest Office: 9950 W. Lawrence, Schiller Park, IL 60176 (312) 671-3633

Fairchild Industrial Products, a Division of Fairchild Camera and Instrument Corp., is a leading designer and manufacturer of equipment for the audio-visual and aircraft industries. Their new Seventy Series line of rear-screen 8mm film projectors are keyed to magnetic sound, super 8mm film with a plus-18 image-to-sound separation. This standard is identical to the format adopted by Eastman Kodak and has been given world-wide recognition. The firm is also a leading producer of airborne recording and reproducer systems. Magnetic head and pickup devices for scanning magnetic information on striped film or other materials is manufactured and sold through their subsidiary, World Magnetics, with facilities in Charlotte, and Traverse City, Michigan.

Address inquiries to: Commack, New York.

Far East Laboratories, Ltd., 14-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo, Japan

Established in 1935, this firm offers, with their high professional standards and most advanced equipment, complete laboratory services for 35mm, 16mm and 8mm color as well as black-and-white including processing of Ektachrome Commercial, MS and EF, Ektachrome Reversal Print Stock. Specialized departments include 35mm and 16mm contact and wet reduction printing, dupes and masters, optical printing and composite cinematography, complete sound recording department with all transferring facilities, and 35mm, 16mm and 8mm magnetic striping. Other services include complete photofinishing for amateur photographers, such as processing of Kodachrome, Ektachrome and Kodacolor films, prints on Ektacolor/Ektachrome paper from them, and duplicating from Kodachrome and Ektachrome movies and transparencies. Plants: Tokyo, Yokohama and Kyoto.

Address inquiries to: the address above.

Filmline Corp., 43 Erna St., Milford, CT 06460 (203) 878-2433

The firm designs and manufactures a complete line of color and black-and-white continuous film processors. The wide variety of processing equipment ranging from a portable table-top processor to complete professional laboratory facilities is backed by over 25 years experience, highly-specialized manufacturing equipment, and practical in-depth engineering that has led to its reputation as the world's foremost manufacturer of quality engineered, continuous, commercial film processors. The equipment line includes machines for the processing of all commercial film formats from super 8 through 16mm and 35mm to 65-70mm at speeds of 6 to 600 ft/min. Similarly the line includes machines for virtually every commercial negative/positive and reversal color and black-and-white film process, i.e. Eastman Color Negative Types I & II, Eastman, Agfa-Gevaert and Fuji Color Positives, Ansco Color, Kodachrome, Ektachrome, Anscochrome, B-&-W reversal, etc. Especially featured is the exclusive, patented Filmline Micro-Demand Drive which can now be retro-fitted in existing machines for those wishing to update their equipment. Machines are also available for microfilm processing and for the photofinishing market. Accessory items available include wiper blade, high- and low-pressure blow-off and Micro-Adjust vacuum film squeegee,

sound track applicators, stainless steel and titanium Temp-Guard heat exchangers, precision film transport rollers, Filmline "feather-touch" silicone elastomer roller tires and portable solution mix tanks. Custom design, engineering and manufacturing services are also available on a consultant basis.

Address inquiries to: the address above.

Frezzolini Electronics Inc., 7 Valley Street, Hawthorne, NJ 07506 (201) 427-1160

Frezzolini Electronics Inc. was incorporated in the state of New Jersey in October 1968. While new to this area, the company has been in existence for well over 25 years. Jim Frezzolini ran General Research Laboratories in his Bronx laboratory and built up a standard in equipment in the news-film media. The company manufactures portable power equipment to drive TV news-film cameras and handheld lights, and has just introduced a new cordless self-powered TV news-film camera. The products manufactured by Frezzolini are used throughout the world by all major television networks, news organizations and documentary-film teams. The products are backed by a well-trained team of personnel able to assist with any technical problems.

Address inquiries to: James J. Crawford, at the address above.

Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10001 (212) LW4-1786

Fuji Photo Film U.S.A., Inc., is a wholly owned subsidiary of Fuji Photo Film Co. Ltd., Japan's largest manufacturer of photographic products. Fuji Photo Film U.S.A., Inc., was established for the sale and distribution of Fuji's photographic products in the U.S. Fuji's products range from motion-picture films and optical instruments to office appliances. They include films for general use, videotape, x-ray films, graphic arts films, dry plates and photographic papers; optical lenses, cameras, enlargers, projectors and binoculars; microfilm cameras and readers, office copiers. Elias J. Drexler manages the exclusive sale and distribution of its full line of professional motion-picture products in the U.S. The products include black-and-white and fully compatible color motion-picture films for use in the motion-picture and television industry. Mr. Drexler is assisted by a professional staff of competent technicians.

Address inquiries to: the address above.

General Electric Co., Lamp Business Div., Nela Park, Cleveland, OH 44112 (216) 266-2121

General Electric Co. was formed in 1892 to carry on the business of the pioneers in the development of electric lighting. Today, the Lamp Business Div. manufactures several thousand types of light sources, including a complete line of lamps for motion-picture and television applications, studios, laboratories, projection, sound reproductions, etc. The company's research programs have resulted in the development of many special types of lamps and light sources to meet the growing requirements of these industries, including the original invention of Quartzline® tungsten-halogen lamps. The company has lighting application engineers in major cities who are available to assist in solving unusual lighting problems. A large number of specialists are engaged in lighting research and development activities at Nela Park, headquarters of the Lamp Business Div.

Address inquiries to: C. N. Clark, Lamp Marketing Dept., at the address above, or contact local offices of the GE Lamp Sales Dept.

Glen Glenn Sound Co., 6624 Romaine St., Hollywood, Calif. 90038 (213) HO9-7221

Glen Glenn Sound offers complete sound recording facilities. Services include rental equipment for recording original production world-wide; a mobile sound studio for film, videotape, or record recording; transfers from any type soundtrack to any type of magnetic soundtrack or optical negative; quality control of optical negatives through the laboratory of your choice; reversible up-date videotape audio sweetening; facilities for narration, scoring, mixing, dubbing, record recording and looping.

Address inquiries to: the address above.

Goldberg Brothers, Inc., 3535 Larimer St., Denver, CO 80205 (303) 244-2436

Since 1913 Goldberg Brothers has been manufacturing products used in the motion-picture industry. It is now manufacturing a broad spectrum of film accessory equipment with major concentration on reels of all sizes and widths, cans, fiber cases, and various booth equipment. Manufacturing space is approximately 100,000 ft² and includes facilities for stamping, painting, aluminum die casting, plastic injection molding, and fully equipped tool and die shop.

Address inquiries to: Goldberg Brothers, Inc., P.O. Box 5345 T. A., Denver, Colo. 80217.

Alan Gordon Enterprises, Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601 (213) 985-5500

Alan Gordon Enterprises, Inc., operating from a six-plant complex in North Hollywood, Ca., plus a center of Hollywood facility at 1430 N. Cahuenga Blvd., is the world's leading source for every need in the motion picture, aerial photo, photo instrumentation, microfilm and audio-visual fields. The company provides services in sales, rentals, maintenance, design, manufacture, modification and repair. Representing the equipment of every major photo manufacturer, AGE, Inc. maintains the most complete inventory of motion-picture and allied equipment spare parts in the world. Since its founding in 1946, AGE, Inc. has been responsible for dozens of innovations and advancements in motion-picture, aerial photo and photo-instrumentation systems and is a specialized manufacturer and supplier of photographic components for all types of motion-picture production, for industry and governments, as well as being a prime and subcontractor to other major manufacturers. AGE Inc. performs the world's largest general maintenance, modification and rebuilding of all makes and types of motion-picture, aerial photo and photo-instrumentation equipment and accessories and is a leading supplier of motion-picture equipment to studios throughout the world.

Address inquiries to: above address.

Graflex Div., The Singer Co., 3750 Monroe Ave., Rochester, NY 14625 (716) 586-2020

Graflex Div. of The Singer Co. has established itself as one of the nation's leading manufacturers of audio-visual and photographic equipment since the company was founded in 1928. Graflex has set a standard for excellence in 16mm motion-picture projectors with models in its Graflex 16 line, including high-brilliance arc projectors and combination optical/magnetic units designed for both business and education. The Insta-Load line of projectors combines the best features of automatic and manual threading of projectors. The Insta-Load may be simply unthreaded during any point in a program and the film may be rewound without removal from the film path. Insta-Load SL Models feature fast-forward and fast-rewind for rapid previewing of films. A unique film footage indicator allows returning to key segments of a film in seconds. A complete line of rear screen filmstrip projectors, the Study Mate Family, for individual or small group instruction is available. The all new Caramate adds a new dimension to rear screen presentations. Its synchronized sound slide system and record-playback capabilities allow greater versatility to slide presentation. Units from viewers to synchronized cassettes and filmstrips offer versatility to any presentation requirement. Other audio-visual equipments range from filmstrip and slide projectors to projection screens to systems for synchronizing motion pictures for television presentation. The Graflex Projection Reader and Graflex Projection Reading Programs are intended especially for educators who need specialized equipment and materials for the teaching of reading. A new rear screen projection reader, Reader Mate, gives the opportunity for individualized reading instruction. Graflex also is a designer of total audio-visual environments ranging from complete theaters to conference rooms and lecture halls. The Graflex line of Graphic cameras is designed for precision, ruggedness, durability and versatility. The XL cameras make it possible for photographers in fields from news to industry to meet specific needs with a wide selection of Graflex lenses, film holders and other accessories, including strobe electronic flash equipment and tripods.

Address inquiries to: the address above.

Gryphon Corp., 101 E. Santa Anita Ave., Burbank, CA 91502 (213) 845-7807

The firm was founded in 1961 and specializes in the development, manufacture and sales of products for the motion-picture industry.

Address inquiries to: Harlan Baumbach, President, or Mel Jones, Vice President, at the address above.

GTE Sylvania Inc., Lighting Group, 100 Endicott St., Danvers, MA 01923 (617) 777-1900

GTE Sylvania manufactures and markets a diverse line of photographic lighting products used in motion-picture and television photography, still photography and projection. The Sun Gun line includes 30-V and 12-V battery-powered movie lights for newsreel and other photography requiring a portable light source. The firm also produces tungsten-halogen and incandescent studio lamps, a complete line of movie and slide projection lamps, exciter lamps, darkroom lamps and enlarger lamps in addition to flashbulbs and general lighting lamps. The company maintains sales offices throughout the country and manufactures and markets both nationally and internationally.

Address inquiries to: the address above.

Guffanti Film Laboratories, Inc., 630 Ninth Ave., New York, NY 10036 (212) CO5-5530

Commercial motion-picture film processing has been carried on since 1929 at the present address. The firm was originally incorporated under the name of Film Service Laboratories, Inc., then under the name of Guffanti Film Laboratories, Inc., since 1946, with no change in ownership. The laboratory has been under the personal supervision and direction of Paul Guffanti since 1929. Processed are motion-picture film of all types and widths from 35-32mm to 16mm; this includes developing of negatives, making duplicate negatives, prints, duplicating of shrunken film and slitting 35-32mm negatives to 16mm. The laboratory processes feature motion-picture films, educational and industrial films, film TV shows and TV commercials as well as films processing for all branches of the armed services. The work performed includes photographing 35mm and 16mm superimposed titles, printing of 35mm, reduction and 16mm contact superimposed. The laboratory is a commercial laboratory available to all owners and producers of motion-picture film, with facilities for developing and printing 35mm and 16mm Color, Kodachrome and black-and-white films.

Address inquiries to: the address above.

Hazeltine Corp., Industrial Products Div., Cuba Hill Rd., Greenlawn, NY 11740 (516) AN1-7000

Hazeltine Corp. has been manufacturing Electronic Color Film Analyzer equipments for motion-picture processing laboratories for over 10 years. Two solid-state versions are currently available: the Model 200M which transports film via a motorized servo control system and the economy Model 200H, which transports film by a hand-operated mechanism. With either version of the Color Film Analyzer, users can view a color-corrected image of the positive print on a 180-in² television display before the stock is committed to printing. Both models handle 16mm, 35mm and 35-32mm film. The Color Film Analyzer is available overseas through Bell & Howell, Ltd. (London); Neutrodyne Pty. Ltd. (Melbourne); and Sumitomo Shoji (Tokyo). Hazeltine Corp.'s principal business is the design and manufacture of a wide range of major electronic equipments for the United States and Allied Governments.

Address inquiries to: the address above.

Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403 (213) 981-2395

Hervic Corp./Cinema Beaulieu is the exclusive United States importer and distributor of Beaulieu 16mm and super-8 motion-picture camera systems, which are marketed through a network of some 650 franchised dealers. Among the number of 16mm cameras available in the Beaulieu line are the R16BTE "Endo" Scientific/Research camera, the R16B (PZ) camera with built-in power zoom and choice of either a 17-68mm or 12-120mm zoom lens, and the "News 16" Professional Single/Double System 16mm Sound camera. The Beaulieu 4008ZM2 super-8 camera features a 6-66mm zoom lens, mirror reflex viewing, variable-speed control and sync sound filming capability. All Beaulieu camera systems offer

lens interchangeability. In addition, the company also exclusively distributes: the Stellavox SP 7 professional tape recorder; Heurtier dual 8 and super-8 projectors (silent and sound); Hervic/Minette super-8 and 16mm viewer editors; Uher 1200 tape recorders; the Hervic/Multilapse time lapse photography unit; and Hervic tripods and projection screens. Hervic Corp./Cinema Beaulieu maintains two offices: its executive offices located in Sherman Oaks, Calif., and its eastern branch office in Lake Success, N.Y. Both offices maintain full service, warehousing and shipping facilities.

Address inquiries to: Christy Mc Manama, at the address above.

Hollywood Film Co., 956 Seward St., Hollywood, CA 90038 (213) 462-3284

Hollywood Film Co. manufactures and distributes film handling and laboratory equipment including printers, slitters, splicers, high-speed inspection projectors, rewinds, edge-numbering machines, processors and reels, cans and shipping cases.

Address inquiries to: the address above.

Hollywood Film Enterprises, Inc., 6060 Sunset Blvd., Hollywood, CA 90028 (213) 464-2181

Founded in 1907, HFE has been serving film producers for over half a century and is believed to be the oldest 16mm laboratory in existence. The firm offers complete 16mm laboratory services in color and black-and-white including optical, contact and reduction printing as well as Kodachrome duplicating. The latest Bell & Howell color additive printers are used in the Eastmancolor Division. Complete negative, positive and reversal processing services are available on both color and black-and-white. Recent developments include completion of modern in-plant processing facilities for Ektachrome and Ektachrome ER, MS and EF camera original and Ektachrome Type 7389 color reversal prints with individual processing machines for each. The firm also maintains complete editorial facilities, projection rooms and temperature-controlled vaults with a storage capacity of over 50 million feet of film.

Address inquiries to: T. H. Emmett, Sales Manager, or Richard Wallach, Controller, at the address above.

Frank Holmes Laboratories, Inc., 1947 First St., San Fernando, CA 91340 (213) 365-4501

The firm has specialized in quality laboratory work for producers of 35mm color filmstrips and slides for over 20 years. All work is in color and restricted generally to the 35mm width. The facilities at the Laboratories include cameras for exposing single-frame or double-frame film-strip masters, and for exposing duplicate slides from all types of original material on reversal or positive color printing film. Special aperture sizes are available for special requirements in either filmstrips or slides. Film-strip release prints are printed by contact printing. Three motion-picture type processing machines are used to develop Eastman Color Print film, Ansco 547 reversal film and Eastman Color Negative films. Slides are mounted and imprinted automatically on custom-built equipment. Most of the equipment in the laboratory is custom-built or modified in the laboratory's machine shop. Slides may be ordered to be delivered in several types of special packages for display purposes. Mounts and packages are manufactured in plant.

Address inquiries to: the address above.

Philip A. Hunt Chemical Corp., Roosevelt Pl., Palisades Park, NJ 07650 (201) WI4-4000

The Philip A. Hunt Chemical Corp. is the largest exclusive manufacturer of photographic, graphic arts and x-ray chemicals. A major portion of the photographic division is devoted to chemicals for processing motion-picture black-and-white and color films. The company was established in 1909 and rapidly became a major supplier of various chemicals used in photographic processing and the graphic arts. For the last two decades, the company has specialized in photographic products for automatic film and paper processing machines; and products for photoengraving, rotogravure, lithography and electrophotography. The company maintains a constant program of quality control for its formulas to meet the requirements of the U.S.A Standards Institute. The Graphic Arts quality control laboratory maintains stringent control of all raw materials and finished products for the various platemaking processes. Separate research labo-

ratories are maintained to contribute, for example, in the field of electrostatic reproduction, particularly of powdered and liquid toners. In the United States, the Philip A. Hunt Chemical Corp., with branches in major cities, sells on a direct basis to its customers. The Philip A. Hunt Company (Canada) Ltd. has branches in three Provinces.

Address inquiries to: the address above.

Hunt's Theatres, Inc., 3511 Atlantic Ave., Wildwood, NJ 08260 (609) 522-2429

This chain of 12 New Jersey resort-area motion-picture theaters — seven in Wildwood, two in Cape May City, two in Stone Harbor and one in Avalon — grew out of one of the country's first nickelodeons, which was started at Camden, N.J., more than 65 years ago by William C. Hunt who passed away July 12, 1970. William D. Hunt, son of the founder, is now President of the company.

Address inquiries to: the address above.

Image Devices Inc., 811 N.W. 111 St., Miami, FL 33168 (305) 754-4141

Image Devices Inc., a subsidiary of Cine Unlimited Inc., is devoted to the rental, sale, and servicing of cinematographic apparatus with emphasis on the most advanced aspects of the technology. Available rental equipment fills a 36-page catalog and IDI helps to meet production schedules in all segments of the Western Hemisphere. A competent development group meets special requirements and equipment modifications as the needs arise. In a sales function IDI works through photographic dealers throughout the country in distributing advanced cine electronic gear. As an example, the company is exclusive importer and authorized service center for the full line of Georg Jensen opto-electronic products. These include the pioneering Multisync crystal sync controls for Arriflex BL cameras, a synchronizer/self-resolver for professional recorders, a time-sync generator for linkless sync recording, a camera speed indicator, drive motors for Arriflex cameras providing internal crystal speed control, and a number of other related products. IDI has a number of other proprietary products related to camera checking (Crystachek), portable lighting and the like. IDI invites professional cinematographers to submit special problems of these kinds, solutions of which may already exist or be presently under consideration.

Address inquiries to: David Haylock, President, at the above address.

Industrial Silver Co., Inc., 1120 North Citrus Ave., Hollywood, CA 90038 (213) 462-8821

Industrial Silver Co., Inc., specializes in the evaluation and installation of silver recovery systems. In the spring of 1972, the company introduced its "Regenerator," a light-weight plastic system for metallic recovery, designed and manufactured by Industrial Silver. The unit is finding wide acceptance by radiological laboratories and photographic processing installations. Industrial Silver, a subsidiary of Spiral Metal Co., Inc., also concentrates silver-bearing scrap and solutions, largely x-ray and photographic film and their by-products. The company is, by itself, one of the nation's largest accumulators of photographic salvage and related materials, and is expanding its operations to include the accumulation and processing of gold-bearing industrial waste. Consistent with this activity, Industrial Silver has installed modern pollution control equipment which will enable it to extend its reclamation operations into new areas. At present, Industrial Silver gathers material primarily from medical facilities, photographic processing laboratories, mirror companies and electronics firms, as well as other industrial sources. Its strength is not only in the national scope of its network but in the in-depth services provided. The company's professional staff reviews procedures, makes in-plant surveys and custom-designs systems to assure optimum recovery of precious metals, giving full consideration to the economic and ecological factors involved. As part of the Spiral Metal family, Industrial Silver has, in addition to its own offices and extensive reclamation facilities, a national network of representatives and dealers. The company's main office is 497 Scott Ave., Brooklyn, NY 11222 and from here the East Coast market is serviced. An office at 919 West 49th Pl., Chicago, IL 60609 handles the Midwest. Facilities at 1717 4th St., Berkeley, CA 94710; 10763 Poplar St., Fontana, CA 92335 and the Hollywood office at the address above provide coverage of the Far West.

Address inquiries to: Our nearest office.

International Film Laboratory, Inc., 2660 West Olive Ave., Burbank, CA 91505 (213) 6171

International Film Laboratory, Inc., is a new, ultra-modern facility established to provide one-stop laboratory service to the discriminating client in search of high quality at a reasonable cost on quantity release printing on 35mm, 16mm, regular 8mm and super 8mm formats. Included in our printing equipment are the Peterson Panel and HFC High Speed reduction printers. Contact printing is accomplished on Bell and Howell additive color printing machines on 35mm, 16mm, and Quad-8 formats. Processing facilities are provided for color-positive, color-inter-negative, Ektrachrome ME4/ECO-3, and black-and-white negative, positive and sound tracks. Among other services provided are complete filmstrip production facilities and 16mm sound studio with facilities for recording, dubbing and mixing up to 7 channels. Projection rooms are provided for all formats for the convenience of the customer.

Address inquiries to: Mardi Rustam, President; Robert Hartshorne, Vice President; William R. Waack, Laboratory Manager; Frank W. Jones, Customer Relations.

International Video Corp., 675 Almanor Ave., Sunnyvale, CA 94086 (408) 738-3900

The nation's newest manufacturer and marketer of color television cameras and recorders, International Video Corp. was founded in 1966. The following year it introduced its first products, all engineered and built in Sunnyvale, Calif. IVC markets color film chain and studio television cameras for broadcast, cable, and closed-circuit use. IVC videotape recorders for broadcast, cable and closed-circuit use, and the following videotape recorders in the IVC one-inch format: IVC-700 Series; IVC-800 Series (electronic editing available); and the color broadcast-quality IVC-960 Series with timebase corrector. Cartridge VTR's include the VCR-100 high-quality cartridge recorder and the BCR-200 multi-deck automated broadcast cartridge recorder.

Address inquiries to: Carter G. Elliott, Corporate Communications Manager.

Irene Film Laboratories (Pty) Ltd., P.O. Box 15, Irene, Transvaal, Republic of South Africa 65351/5; Telex No. 44-0330

Irene Film Laboratories (Pty) Ltd. is the only commercial motion-picture laboratory in the Republic of South Africa which provides a full range of services to motion-picture and TV producers. Processing services include 35 and 16mm black-and-white negative/positive, 16mm black-and-white reversal, 16mm Ektachrome (ME4 and ECO), 16mm Gevachrome and 35mm and 16mm Eastman Color negative/positive. Processing machines are predominantly Debie. 35mm and 16mm Contact Printers are Bell & Howell model C's and Debie Tipro's fitted with liquid gates are used for 35/16mm reduction. Color timing is carried out on Hazeltines. Latest developments include the installation of a Bell & Howell 16/super 8 reduction printer and associated magnetic sound transfer console and the introduction of CRI Processing. The Optical department is equipped with an Oxberry Aerial Image Animation Stand and an Oxberry 1500 printer fitted with aerial image. Other services include negative cutting, film storage and a sound studio equipped for recording and re-recording onto 1/4-in, 16mm, 17.5mm and 35mm magnetic film and 16 mm and 35mm optical.

Address inquiries to: the address above.

Jamieson Film Co., 3825 Bryan St., Dallas, TX 75204 (214) 823-8158

This company, founded in 1916, produces industrial, educational and commercial films in both 16mm and 35mm, black-and-white and color. The company also provides complete production and laboratory services to the independent industrial plant producer. Production facilities include: 9000 ft² and 5000 ft² sound stages, complete lighting and camera equipment, Oxberry animation equipment, RCA 35mm and 16mm optical sound channels, editorial and preview facilities and laboratory. Laboratory facilities include processing of the entire family of 16mm Ektachrome film — ECO, EF, MS and Ektachrome Dupe. The company's Equipment Division designs and manufactures a complete line of patented color film processing machines for commercial laboratory and TV station use.

Address inquiries to: the address above.

Kalart Victor Corp., Plainville, CT 06062 (formerly, The Kalart Company, Inc.)

Kalart Victor Corp. first engaged in the manufacture of photographic equipment and accessories in 1930, developing photo-flash synchronizers and lens-coupled rangefinders for press-type cameras. These devices were developed in connection with the business of commercial and press photography which was established in 1922. Present-day products include: Kalart Victor® 16mm sound motion-picture projection equipment and accessories, including Moviematic® and Duolite®, rear-screen repeater projectors, Victor Soundview®, 35mm filmstrip and sound slide equipment; Kalavox® sound slide systems; Craig® 8mm and 16mm editing equipment, film viewers, spicers, rewinds and cement; Tele-Beam® large screen TV projection equipment and accessories for use with closed-circuit or off-the-air television and the Cris-Pic TV Image Impresser, and image enhancer for use with Tele-Beam and other TV Systems. The company also manufactures TV products which are sold to educational, industrial and broadcast markets. Included are 16mm TV film chains, 35mm filmstrip and 16mm optical multiplexers, and various associated TV system components. The company manufactures many of its products and components for original equipment manufacturer accounts.

Address inquiries to: the address above.

KEM Electronic Mechanic Corp., 225 Park Ave. South, New York, NY 10003 (212) 260-2150

The KEM Universal was introduced in the United States in 1969. It is a modular, interchangeable and expandable editing system with a large picture, clear sound and quiet operation. The basic unit is a 6-plate table for one picture and two soundtracks. It is readily expandable, by means of extensions, to the 8-plate KEM, the configuration most commonly seen. In the 8-plate configuration, the editing table can take modules for three pictures and one soundtrack; two pictures, two sounds; one picture, three sounds; or four sounds blind. These combinations can be used in any interlock combination of 16mm, 35mm and 65/70mm. The KEM standardized automatic sync drive at 24 frames/s, which allows the table to be used in conjunction with sync recorders and sync projectors, was introduced in 1970 and the KEM Universal 4-plate Junior was announced in 1972. A non-expandable editing table, the Junior is an inherent part of the KEM system, utilizing the same modules and with the same interchangeability of the 6/8-plate Universal. Modules for the KEM system include pictures in super 8, 16mm, super 16, 35mm, 35mm full aperture, 35mm Panavision/Academy and 35mm contact Techniscope; sound modules in super 8, 16mm edge, 16 center, 16 center/edge/stereo, 35mm stripe, 3-track and 4-track and composite sound modules in 16mm optical/magnetic and 35mm optical. KEM Electronic Mechanic Corp. with its Hollywood branch is an affiliate of the Intercraft Corp. They are the sole distributors of the KEM equipment in the United States, Canada and Central America. There are service representatives in major cities.

Address inquiries to: the address above.

Laboratoires Cinematographiques C.T.M., 66, rue Pierre Timbaud, 92230 Gennevilliers, France

The CTM Laboratories have their plant in the near, northwestern suburbs of Paris, at 66 Rue Pierre-Timbaud, 92-Gennevilliers. They process black-and-white and color film, 35mm and 16mm, negative, positive and reversal. They do trick photography, optical effects, and optical subtitling. Chemical subtitling on prints is done at the associated Titra-Film Laboratory, located on their premises. Three synchronizing sound stages, also on their premises, offer all dubbing and transfer facilities. A nearby branch manufactures editing equipment, such as the well-known Moritone.

Address inquiries to: the address above.

Lider Cine Laboratorios S.A., Av. 28 de Setembro, no. 168, Vila Isabel, Rio de Janeiro, G.B., Brazil

Lider Cine Laboratorios S/A is a Brazilian film laboratory in B-&W and color, and in all gauges. The head office and the Rio Laboratory are located in the large, recently constructed group of buildings, at the above address. The laboratory has a branch in Sao Paulo, at Rua 13 de Maio, 402, also fully equipped for operations in B-&W and color. The new premises of the Rio Laboratory house the most modern machinery and equipment of a film laboratory, fully conditioned to meet the constantly

increasing requirements of the industry work connected with motion pictures and TV services. It has the capacity for developing and printing to meet all possible market demands. In addition to the above services, Lider had recently acquired the control of Somil, a sound recording and dubbing organization. It is equipped with the latest, specialized machines for servicing TV stations and the screening in local theatres. It also has dubbing assembly rooms for independent producers.

Address inquiries to: the address above.

Lipsner-Smith Corp., 7334 N. Clark St., Chicago, IL 60626 (312) 338-3040

Lipsner-Smith Corp. introduced a new film conditioning system. By adding a conditioner to the present system, the positive prints are lubricated, coated, cleaned and static free. Lipsner-Smith Corp. also produces the CF-2 Ultrasonic Film Cleaner that works without mechanical scrubbing or contact. An Academy Award for scientific achievement was awarded to the firm for the above equipment. The LSC Vedette, a professional projector with a rotating prism optical system operating at 0-400 ft/min is available. This unit projects picture, sound-track and monitors sounds. Lipsner-Smith also provides clean room and laminar flow equipment as well as complete plant air control.

Address inquiries to: the address above.

Lowel-Light Manufacturing, Inc., 421 W. 54th St., New York, NY 10019 (212) 245-6744

Lowel-Light Manufacturing, Inc. designs and manufactures innovative portable motion-picture and television lighting systems. Specialists in location lighting equipment, the product line includes: The Lowel Total System, Softlight, Link System, Quartz "D" & "R", Variflector II and the original Lowel-Light and Barndoor.

Address inquiries to: the above address.

M.G.M. Laboratories, Inc., a subsidiary of Metro-Goldwyn-Mayer, Inc., 10202 W. Washington Blvd., Culver City, CA 90230 (213) 836-3000

M.G.M. Laboratories, Inc., in addition to its services for the parent company for the past 40 years, offers complete motion-picture laboratory services, 8mm through 70mm. Independent producers of motion pictures may avail themselves of the professional black-and-white and color processing and printing facilities, as well as optical, title, and sound services.

Address inquiries to: Walter G. Eggers, General Manager, at the address above.

Magnasync/Moviola Corp., 5539 Riverton Ave., North Hollywood, CA 91601 (213) 877-2791

The firm is a subsidiary of Craig Corp., and has been worldwide in supplying quality magnetic film and tape-recording equipment to the industry and government for over a decade. Three basic lines of equipment are featured: the Studio line of magnetic film recording and reproducing equipment, the Editing line of motion-picture film editing equipment, and the Communications line which encompasses tape recording units. In the Studio line, the company offers 16, 17.5 and 35mm recorder/reproducers, both portable and studio, interlock systems, audio units, audio consoles, both standard and custom, and a complete line of accessories with which to equip the most modern recording facility. Moviola film-editing equipment has been manufactured since 1920. Products include: new Moviola console editor, incorporating computer-type footage, frame, minutes and seconds counter, along with its standard upright editing equipment, synchronizers, sound readers, rewinds and crab dollies. In the Communications line of equipment, the company offers ¼-in, ½-in, and 1-in tape recorders equipped for 24-h voice recording and other specific requirements. Channel selection can be a maximum of 20 tracks. Also supplied is "high-speed" search Time Code Generator and Reader giving 24-h digital readout. To complete the company's facilities we are equipped with a modern engineering laboratory manned by professional personnel who are available to design, modify and recommend equipment to a specific requirement. Magnasync/Moviola products and services are distributed throughout the free world by more than 60 dealers.

Address inquiries to: L. S. Wayman, President/General Manager, or Walter H. Mills, Executive Vice-President, at the address above.

Magna-Tech Electronic Co., Inc., 630 Ninth Ave., New York, NY 10036. (212) 586-7240

Magna-Tech Electronic (MTE) manufactures a complete line of professional motion-picture studio sound recording equipment. The product line includes 16mm, 35mm, 17½mm magnetic reproducers and recorders, in all track configurations and positions from one to eight track, in either or both SMPTE or CCIR equalization and 24 or 25 frame speed. Interlock systems offered are single phase, three phase, high speed, and all transistor system with stepping motor drive. 16mm and 35mm reversible interlock projectors offered are either sync or high-speed interlock, operating forward and reverse. The high-speed projectors use on all electronic intermittent for sync and are continuous at high speed. The company's Electronic Looping System (EL) is a control console for the recorders and projector, permitting post sync looping or foreign language dubbing of a whole reel without cutting the film into actual loops. On December 31, 1969, an "Academy Citation" was presented as a technical award for the EL System by the Motion Picture Academy of Arts and Sciences. Various synchronizers are available for operation of audio and video tape recorders in sync with sprocketed film.

Address inquiries to: Norman T. Prisament, at the address above.

Marconi Electronics Inc., 500 Executive Blvd., Elmsford, NY 10523, (914) 592-4500

Marconi Electronics Inc. is the U.S. subsidiary of The Marconi Company in England, which was the world's first radio company having been incorporated in 1897. Marconi manufactures a complete range of equipment for the industry which includes products for space communications, both ground station and satellite in addition to microwave communications equipment and a complete range of HF transmitters and receivers. In particular Marconi Electronics distributes its Broadcast, Radio and Television products including a complete range of radio transmitters from 1kW through 750W AM; 1kW and 10kW FM; and 100kW, 250kW short wave. The television transmitter line covers 1kW through 15kW VHF and 10kW through 55kW UHF with higher powers available by paralleling. Marconi's comprehensive studio equipment includes the world's first fully automatic color camera—the Mark VIII; a full facilities film chain; audio and video switchers and switching systems; custom remote trucks; pulse generation and distribution systems; monochrome cameras; test charts and all accessories needed for a complete studio installation. Test equipment for the Broadcaster and the whole field of industrial electronics is available from the above address.

Address inquiries to: The address above.

Medallion Film Laboratory, Ltd., 559 Rogers Rd., Toronto 3359, Ont., Canada (416) 653-6176

This organization (formerly S. W. Caldwell Ltd.; Cinesound Ltd.) provides the film and broadcasting industries with such services as 35mm Eastman Color negative and positive printing and processing; 16mm Eastman Color printing and processing; Kodachrome printing; 16mm black-and-white negative and positive printing and processing; color film strip printing and processing; 16mm black-and-white reversal printing and processing. The firm has been in operation since 1949.

Address inquiries to: Mr. W. C. James, Vice-President and General Manager in Charge of Production, at the address above.

Metro/Kalvar, Inc., 745 Post Rd., Darien, CT 06820 (203) 655-8209

Metro/Kalvar, Inc. is a jointly owned subsidiary of Metro-Goldwyn-Mayer, Inc., and Kalvar Corp. Its primary responsibility is to market and distribute Kalvar® vesicular motion-picture film for a wide range of applications. The management offices are in Darien, Conn., with engineering and laboratory facilities in Los Angeles and a service office in Chicago. The Metro/Kalvar system is a black-and-white reproduction process; printer-processor equipment has been developed to support production in 8mm, super-8, 16mm and 35mm formats. A unique feature of the Metro/Kalvar process is the printing and processing in one continuous operation without chemicals or solutions, in normal room light. The films are composed of a tough saran-type emulsion on a polyester base. Metro/Kalvar Inc. also manufactures ultrasonic film splicers.

Address inquiries to: the address above; or to 8927 Exposition Blvd.

Los Angeles, CA 90034 (213) 837-7179; or to 9933 N. Lawler, Skokie, IL 60076 (312) 674-3760.

Minnesota Mining & Manufacturing Co. (3M), Photographic Products Div., 3M Center, St. Paul, MN 55101 (612) 733-0020

The company's emphasis in continuing research and development has led to new applications and new products directly applicable to the motion-picture and television industries. Of major interest is the Professional Motion Picture Dept., headquartered in St. Paul, Minn., with branches in West Caldwell, N.J. at 15 Henderson Dr.; in Chicago, Ill., at 6023 South Garfield Ave.; and in Los Angeles at 3407 W. 6 St. An established and important part of the motion-picture industry, 3M is producing a rapidly expanding line of motion-picture products, such as Color Release Positive Film, for release prints from either original color negatives or color internegatives. 3M Brand Color Positive Type 650 joins a family of 3M professional motion-picture films that includes black-and-white release positive print film, panchromatic negative and reversal films, and duplicating negative, positive and reversal films which are ideally suited for 35mm, 16mm and super-8 formats. The Mincom Div. manufactures and markets the 3M Brand Professional Recorder, a high-performance system for master recording for both the record and film industries. The Professional Recorder can be used either in the studio or on location. Other professional products include the electron-beam recorders which record high-quality TV pictures on 16mm black-and-white and color film, and a line of dropout compensators for use with color VTR systems.

Address inquiries to: 3M Company, 3M Center, at the address above or to local offices.

Minolta Corp., 200 Park Ave. South, New York, NY 10003 (212) OR4-8525

As sole United States agents for the complete line of photographic equipment manufactured by Minolta Camera Company Ltd., Osaka, Japan, founded 40 years ago, this company is engaged in the distribution of still cameras, 8mm cine cameras, and projectors. Other activities include office copy equipment, microfilm readers, printers, image intensifiers, TV optical equipment (TV color analyzer, TV spot meter), and photometry instruments (a full system of exposure meters: color, flash, spot and incident meters).

Address inquiries to: the address above.

Mitchell Camera Corp., 666 West Harvard St., Glendale, CA 91209 (213) 245-1085

Mitchell Camera Corp. is a leading designer and manufacturer of professional motion-picture cameras used extensively in the production of films shown on television and in theaters throughout the world. In addition to work for the theatrical and television fields, the firm produces 16mm, 35mm and 70mm cameras and projectors of special design for research applications. Current developments now in production include Vista-205 studio-type camera; Mark III 35mm Handheld; Sportster 16mm; special equipment for underwater; multispectral photographic equipment and optical colimators.

Address inquiries to: Sales Dept., at the address above.

Mole-Richardson Co., 937 North Sycamore Ave., Hollywood, CA 90038 (213) 851-0111

The company, founded by Peter Mole in Hollywood in 1927, pioneered in the development of lighting equipment for the motion-picture studios. By keeping pace with advancements in the art of photographic lighting, the firm currently offers the most complete line of specialized lighting equipment ever produced by one manufacturer for motion-picture, still and TV studios. Incandescent fixtures of both fixed beam and focusable types are available in wattage ratings ranging from 50 through 10,000 W. Mole-Richardson has also developed a comprehensive family of fixtures using the quartz halogen light sources, including the new 1,000 W Baby-Baby, 2,000 W Baby Junior, 5,000 W Baby Senior and 10,000 W Baby Tender. A new addition is the ellipsoidal pattern light, the 2,000 W Molequartz Molelipo. Various sizes of arc lights are offered up to 350 A including the 225 A Baby Brute Molarc and the 225 A Litewate Brute Molarc. Other related products include lighting controls, hanging devices, power distribution equipment, engine driven generators, dc and ac, transformers, microphone booms and perambulators, grip equipment, special effects,

and technical books, and a new Molepower wet cell battery pack and charger kit. The company maintains both sales and rental services not only from its headquarters in Hollywood, but through distributors around the world.

Address inquiries to: Warren K. Parker, President, at the address above.

Mosaik-Film GmbH, 1 Berlin 46, Muehlenstr. 46-54; 2 Hamburg 70, Tonndorfer Hauptstrasse 90

Main office, plant laboratories and dubbing studios are located in West Berlin, Germany. Established in 1945, it was the first company in Germany to meet the requirements of film producers and distributors after the Second World War. The services are: Complete color (Eastman-, Agfa-Gevaert-, and Ferrania-Color), black-and-white printing and processing (negative and positive) in 35mm, 16mm, 8mm and super 8 for theatrical, industrial, educational and television use. The services include the production of intermediates, internegatives and CRI, reduction printing, optical and magnetic track transfer and all associated lab services. In addition, the company offers rental of nine sound recording and mixing studios and 30 editing rooms well equipped for all dubbing requirements including stereophonic sound recording, multi-channel, especially six-channel mixing with the possibility of sound transferring to super 8, 16, 35 and 70mm release prints, magnetic striping and a complete sound service.

Address inquiries to: the address above.

Motion Picture Enterprises, Inc., Tarrytown, NY 10591 (212) 245-0969

As a prime supplier to the professional motion-picture and TV industry, the firm stocks reels, cans and fiber cases of all sizes for film and tape, with more than 500,000 units on hand in the New York City warehouse to enable immediate shipping. A complete line of cutting room and film library equipment and supplies includes rewinds, tables, storage cabinets, splicers, splicing tape, sound readers, etc. The firm also offers film editing and developing machines as well as other laboratory equipment for rental or sale.

The semiannual *Motion Picture, TV & Theatre Directory Hand Guide* is published with a national circulation of 36,313; the quarterly *Motion Picture, TV & Theatre Wall Chart*, circulation 10,500; and the semiannual *MPE Audio-Visual Source Directory*, circulation 46,309.

Address equipment and supplies inquiries to: Herbert R. Pilzer, President, or Sylvia Jarvis, Vice-President and Sales Manager; *and publications inquiries to:* John Low, Director, MPE Publications, Inc., at the address above.

Motion Picture Laboratories, Inc., 781 S. Main St., P.O. Box 1758, Memphis, TN 38101 (901) 948-0456

The firm's complete 16mm motion-picture laboratory services are: *processing* — Ektachrome ECO-2 and ECO-3 and ME-4, color negative-positive, black-and-white reversal, negative, positive, kines; *sound* — 35mm and 16mm original recording, mixing, dubbing, magnetic and optical, RCA or Maurer tracks; *editing* — creative, music selection and scoring, conforming original film; *production services* — scripting, animation, title artwork and title photography only; *Acme optical printing and special effects* — masters on all films, zooms, wipes, freeze frames, etc.; 35mm to 16mm reduction printing, super-8 reduction printing; regular-8 and super-8 cartridge loading. Other services include VTR-to-film transfers in color or black-and-white, film cleaning and repairs, film treatments, edge numbering, electro-printing, wet-gate printing, equipment sales and rentals.

Address inquiries to: the address above.

Movielab, Inc., 619 West 54th St., New York, NY 10019 (212) 586-0360; 6823 Santa Monica Blvd., Hollywood, CA 90038 (213) 469-5981

Movielab, Inc., is a complete 35mm and 16mm color and black-and-white daily and release laboratory. Services include additive color printing, 35/16mm liquid gate optical IP's, internegatives, CRI's and blowups; Ektachrome developing and printing; Kodachrome scene-to-scene color-corrected printing; black-and-white reversal developing and printing; color filmstrip department; super 8 release printing with magnetic and optical sound, complete title department; sound transferring, including 35/16mm double-rank negative matching; editing rooms; film

and tape storage vaults; and private screening facilities. The company maintains a long-range program of research and development.

Address inquiries to: Sales Dept., at the New York address above.

National Screen Service Corp., 1600 Broadway, New York, NY 10019 (212) 246-5700

The service consists of distributing to motion-picture theaters previews of coming attractions (trailers) and also lobby displays and posters. The firm produces and distributes TV commercials, animation and industrial films, special announcement trailers, holiday trailers and feature picture trailers to television stations. Subsidiary operations include Advertising Industries, manufacturing frames and display cases; Opticals West, a film optical effects plant; National Theatre Supply, sales agency for projection and sound equipment, theater chairs, carpeting, etc.; and Continental Lithograph, printers of full-color point-of-sale material ranging from brochures to 30-sheets.

Address inquiries to: Home office and East Coast Studios at the address above. West Coast Studio: 7026 Santa Monica Blvd., Hollywood, CA 90038. London, England: Nascreno House, Soho Square, London W.1.

Newsfilm Laboratory, Inc., 516 No. Larchmont Boulevard, Hollywood, CA 90004 (213) 462-8292

Southern California's one-stop specialist for Ektachrome 16mm and super 8 processing and printing; super 8 and 16mm ME-4 processing to ASA 1000; 16mm ECO-3 processing to ASA 100. Full service printing on 7389 and 7390 stock, silent, magstripe, and optical with full-fidelity silver soundtracks. One day service on answer prints from A&B rolls with electro-print sound. New super-8 facilities include 7389 release prints from A&B rolls, edgenumbered workprints, soundstriping base and emulsion, sound transfer, special timing, and roll color correction. Now available, a completely self-contained location laboratory for on-the-spot processing of 16mm Ektachrome films. The 23-ft van contains processing, printing, editing and sound transfer services. Utility and chemical services are on-board to allow sustained operation in any location.

Address inquiries to: Dick Schiller, the above address.

Omnicom Corp., Omnicom Productions, 3315 S. Pennsylvania Ave., Lansing, MI 48910 (517) 393-7800; Filmmakers Lab. Div., 1001 Terminal Rd., Lansing, MI 48906 (517) 371-1776

Omnicom Corp., is a complete motion-picture producer and producers' film service organization. The firm is a licensed Eastman film processing laboratory, processing 16mm, 35mm and 8mm film. Other types of processing include black-and-white reversal 16mm and 8mm; black-and-white negative-positive films, and optical soundtracks. For the past 30 years Filmmakers Div. has been a supplier of films for industry as well as a producer of TV commercials for some of the nation's largest firms. The firm has complete facilities and equipment for all slide, animation or live motion pictures.

Address inquiries to: Richard Cole, at the address above.

Optical Radiation Corp., 6352 North Irwindale Rd., Azusa, CA 91702 (213) 969-3344

Optical Radiation Corp. develops and manufactures quality products in the area of high-technology illumination systems. Specifically, these products produce, control and project radiant energy in the form of visual, infrared and ultraviolet light.

Address inquiries to: Dan Miller, at the address above.

Orwo Private Ltd., Stadium House, Vir Nariman Road, Bombay-20BR, India

This firm, incorporated in 1964, has been appointed sole importer and distributor for Northern and Western India of all Orwo cine, x-ray and photographic sensitized materials and chemicals manufactured by the G.D.R. factory VEB Filmfabrik (ORiginal WOlfen). Products marketed include all types of cine films — black-and-white and Orwocolor television films, industrial and medical x-ray films, black-and-white and Orwocolor photographic materials, films for science and technical fields, including spectroscopy and astronomy, and materials for graphic arts and photographic equipments. Orwo Private Ltd.'s present activities include color processing and the manufacture and marketing of photographic chemicals, besides sale of all Orwo products.

Address inquiries to: the address above.

Oxberry — Div. of Richmark Camera, 516 Timpson Pl., Bronx, NY 10455 (212) 585-0730

The Oxberry Div. designs and manufactures the complete line of Oxberry equipment; animation and filmstrip stands, special-effects optical step printers, combination 16/35mm fixed-pin registration cameras for animation, filmstrip and optical effects work. A complete line of accessories is integrated to match all Oxberry equipment for flexibility and versatility in use. Complete production facilities and mechanical-electrical design staff are available for the development and manufacture of special products related to film equipment. The company's research and development program has resulted in a patented aerial image system for optical printers and animation stands as well as automated control devices for Oxberry equipment. Complete service facilities are maintained in Europe, Asia and California. Main office and factory are in Bronx, N.Y.

Address inquiries to: Richard McCarthy, Sales Manager, at the address above.

Paillard Inc., 1900 Lower Rd., Linden, NJ 07036 (201) 381-5600

Paillard Inc., a subsidiary of Paillard S.W., Yverdon, Switzerland, is distributing high-quality photographic equipment within the United States. Among the major items are the Bolex 16mm cameras, including the Bolex 16 PRO, a highly versatile, unique and automated camera for all types of 16mm professional film making. The professional Bolex H-16 cameras come in various models, with 100-ft and 400-ft film capacity and equipped with lenses made by Kern, Switzerland, Angenieux, and Sophelem, France. The Bolex super 8 line includes cameras with Macrozoom for amateur and semi-professional applications, silent and magnetic sound projectors, cartridge projectors with fully automatic film rewind and cartridge change, splicers and magnetic stripping machines. In the still camera field, Paillard is importing the Hasselblad 2 1/4 medium format cameras made by Hasselbald A.B., Goteborg, Sweden, and used in every field of amateur and professional photography. This single lens reflex camera offers complete interchangeability of film magazines, viewers, and Zeiss lenses with built-in Synchro-Compur shutter for complete synchronization with electronic flash. Hasselblad cameras are also available with built-in motor drive for automatic film advance, remote operation and multiple camera applications. The third major line is Topcon, made by Tokyo Optical Co., Japan. It includes a highly developed, sophisticated 35mm Camera system with built-in exposure meter and over 20 interchangeable lenses including Macro and zoom lenses. Large 250-exposure magazines, electric film advance and sequence motor accessories make Topcon ideal for specialized industrial and scientific applications. Paillard Incorporated is a major supplier of camera equipment for the NASA space program since 1962. The Hasselblad cameras have been used in space-ships and on the surface of the moon, individually and in clusters of four. A special model and reseau plate for mapping purposes was developed and is now available for photogrammetric purposes as the Hasselblad model MK 70. Kern Switar lenses have been supplied to NASA for use on the 16mm sequence cameras.

Address inquiries to: the address above.

Pako Corp., 6300 Olson Memorial Highway, Minneapolis, MN 55440 (612) 540-6011

Pako Corp. is the world's most experienced manufacturer of film processing equipment. For over 60 years Pako has maintained a reputation for quality products. Pako has grown in size and scope, branching world markets and manufacturing a full line of cine, photographic, x-ray and graphic arts processing equipment. Pushbutton operation is the key to faster quality processing at less cost. Pako prides itself on a proven full line of Cine Processors for all known types of film.

Address inquiries to: the address above.

W. A. Palmer Films, Inc., 611 Howard St., San Francisco, CA 94105 (415) 986-5961

San Francisco's complete 16mm film service facility. Laboratory services include black-&-white and color developing, work-print, answer and release printing, additive color printing, scene-to-scene color correction, internegatives, optical printing, liquid gate printing, special effects. Other services include videotape to film transfers, synchronous recording (location and studio), narration recording, music libraries, scoring and dubbing; complete animation, title and editorial services, and sound stage

rental. The company also markets the Palmer Interlock Projector, the Palmer Magnetic Film Transport, and the Palmer Television Film Recorder.

Address inquiries to: Kay Kibby, Advertising Manager.

Peterson Enterprises, Inc., 1840 Pickwick Ave., Glenview, IL 60025 (312) 729-1010, 273-2422

The company designs and manufactures motion-picture contact and reduction printers. It remains abreast of the latest requirements of the motion-picture industry, supplying film printers and accessories for 8mm through 70mm, including super 8 and 35/16-3R film. The standard manual subtractive pedestal-type printer is complimented by a complete line of color additive contact pedestal-type and bidirectional panel printers, plus 35mm filmstrip printers, in both manual and automatic modes. Accessories available for contact printers are soundheads, multiple-speed fade units, RF cuing systems, air/vacuum film cleaners and pumps, plus cue patch applicators. The latest equipment designed is their new bidirectional 16mm-to-super-8 (dual rank, quad rank and combination) Continuous Optical Reduction Printer in the panel-printer concept. Optical and magnetic sound attachments are available. Also, the "COR-JR" single concept, uni-directional continuous optical reduction printer for super 8. More than 40 years of experience in the motion-picture industry has afforded the knowledge to design and produce this fine and efficient film printing equipment. The company continues to originate many vitally needed improvements and new time-saving accessories.

Address inquiries to: C. L. Zichterman, Vice President and Director of Marketing, at the address above.

Philips Broadcast Equipment Corp., subsidiary of North American Philips Corp., One Philips Pkwy, Montvale, NJ 07645 (201) 391-1000

Norelco is the trademark of the company's products, which include broadcast television systems, cable TV and closed-circuit systems, commercial and professional sound systems. In addition, the Government Systems Div. of Philips Broadcast designs and manufactures infrared and low-light-level imaging systems for defense as well as civilian applications; and its Saferay detection system for use at airports and public buildings utilizes short-pulse x-ray technology along with intensified television systems. This year, Philips Broadcast introduced the Norelco VCR (videocassette recorder) color record/playback unit utilizing 1/2-in magnetic tape in small videocassettes to produce high-quality color through conventional TV receivers. The company's Norelco PC-70 three-Plumbicon™ color TV camera, introduced in 1966, heralded a revolution in color camera technology.

Address inquiries to: James L. Wilson, Vice President, Marketing, at the address above.

Photo-Sonics, Inc., 820 South Mariposa St., Burbank, CA 91506 (213) 849-6251. Telex #67-3205

The firm manufactures the Photo-Sonics line of 16mm, 35mm, and 70mm instrumentation cameras, 16mm airborne strike and gunsight cameras, tracking mounts, and complete data gathering systems; it also manufactures Acme special-effects motion picture equipment for animation, laboratory, and kinescope recording. Additionally, Photo-Sonics leases photoinstrumentation equipment, provides operating personnel for optical data gathering services, and designs and manufactures equipment for specialized photographic applications.

Address inquiries to: John Kiel, President; Roy Edwards, Vice-President; or Darrell Lassiter, Sales Manager, at the address above.

Plastic Reel Corp. of America, 640 S. Commercial Ave., Carlstadt, NJ 07072 (201) 933-9125

The firm is the originator of the Plio-Magic™ line of plastic shipping cases and film reels. The reels, available in all sizes from 8mm and 16mm, 50 ft to 2200 ft, have been used successfully in the commercial and educational field for many years. Also available is a completely new line of Plio-Magic™ 35mm and 126 mm reels (100 to 1200 ft) used primarily in the processing field. The exclusive patented Plio-Magic™ shipping case, is available in single and multiple reel sizes from 400 ft to

2200 ft. Exclusive positive-action locks are built to withstand the roughest punishment, and to ship films safely and intact even through modern high-speed post office sorting equipment. Plastic Reel also recently introduced a new line of Premium plastic reels called Plio-Magic™ Plus. They are 16mm projection reels of more rigid and durable construction, available in sizes from 400 ft to 2200 ft. Also new is the line of Strip & Sound Systems used for packing record and filmstrip programs, and cassette and filmstrip programs. Both items allow the user to form a totally integrated dust-resistant package which ensures that the filmstrip and cassette or record are protected and issued completely each time a program is given or shipped. Also available is a line of Plio-Magic film cans for 16mm film ranging from 400 ft to 2200 ft. Also available are tape reels, film cores, flatbed rollers with soft-touch tires and the spring bushing used in the new Kodak system, idler and drive rollers, bushings, bearings, and a new line of videotape reels in a wide range of sizes. New to the Plio-Magic line is the Strip & Sound Swinger, a new rotary file for filmstrip/cassette programs, 8mm film loops, microfilm rolls and cartridges, that save space, time and money. Of modular construction, sections are available to hold 60, 120, 240 and 360 of the Plio-Magic Strip & Sound Pak units. The new Modu-Line System 70 Series is a three-dimensional, modular storage rack to hold film cans and cases, and videotape cassettes and reels, with the greatest safety, convenience and efficiency possible. The individual components are of heavy gauge steel that together form a unique custom-tailored system that grows easily and economically to meet your expanding film and video storage requirements.

Address inquiries to: Henry R. Hery, Deputy Director of Sales, the address above.

Posso S.A., B.P. 304 F75624-Paris Cédex 13 Tel. 588.31.56

Since its establishment in 1885, the Posso Co. has specialized in manufacturing items for the photographic, cinematographic, tape and computer industries, including metal slides for plates, photographic film spools and cassettes, camera and movie film projection spools, spools and containers for magnetic tape in all its applications, audio, video and computer tape, disc packs for computer systems and all kinds of cassettes in their latest applications. Other of the firm's products include cartridges for Kodak and compatible-type projectors, compatible compact cassettes, microfilm cartridges and cassettes for audio-visual systems. With its four European plants (two in France, one in Switzerland, one in Germany) the Posso Group is able to meet the steadily increasing demand of customers all over the world and to offer them a reliable supply service by using top techniques. The Posso Co. started on an artisan level; it is now at a leading rank of international importance and looks now, more than ever, confidently into the future.

Address inquiries to: address above.

Precision Laboratories, Div. of Precision Cine Equipment Corp., 999 E. 46th St., Brooklyn, NY 11203 (212) 469-8234

The firm manufactures film editing and laboratory equipment used by the motion-picture and TV industries. The company's products include Precision Sound Readers, which are self-contained units used for editing 16mm or 35mm optical soundtracks or 35mm, 17.5mm, 16mm, 8mm or ¼-in magnetic film or tape; Precision Unitized Synchronizers which are building blocks designed to give the film editor a flexible unit to work with; and Precision Editing Tables. Film slitters and power film slitting machines are manufactured for the film laboratories as custom-built equipment. We also manufacture film slitting machines, printers, loop elevators, film sprockets for printers and processors. We also manufacture and sell a complete line of precision film editors and professional viewers. We are distributors of projection lenses and portable 35mm sound projectors.

Address inquiries to: the address above.

PSC Technology Inc., 1200 Grand Central Ave., Glendale, CA 91201 (213) 245-8424

Acme Products Division of PSC manufactures and markets special effects motion-picture, optical printing equipment and duplicating systems. Its major products are super-8, 16mm and 35mm Acme Optical Printers, models 102, 103 and 104. These printers are used

throughout the world by special-effects houses and precision laboratories. Both additive and subtractive color light sources complete with automatic or manual controls are offered. PSC manufactures liquid gate printing systems; film gate photometers for optical and model C printer control; and precision electro-optical focusing systems. The Photo Instrumentation Div. manufactures and markets custom designed film transports and movements, 8mm, 16mm and 70mm for projection and printing; also instrumentation cameras and projectors, precision viewer reader complete with computer output.

Address inquiries to: the address above.

RCA, Communications Systems Div., Front and Cooper Sts., Camden, NJ 08102 (609) 963-8000

Communications Systems Div. is a major operating unit of RCA with plants in Camden, N.J.; Gibbsboro, N.J.; Meadow Lands, Pa. and Burbank, Calif. It is a leading developer and supplier of technical equipment for the television broadcast and motion-picture industries in the United States and overseas. CSD products include a full range of color TV broadcast and closed-circuit cameras, television film systems, TV tape recorders, switching and control equipment, transmitters, antennas, and related products. The film recording activity, based in Burbank, provides magnetic and optical sound-of-film recording equipment and automatic dialog replacement systems. As part of its Camden plant complex, CSD operates a TV equipment demonstration studio for visits by television industry managerial and technical personnel and an 82-acre site for engineering and testing RCA broadcast antennas.

Address inquiries to: J. E. Hill, RCA, Communications Systems Division, Bldg. 2-2, Camden, NJ 08102

Redlake Corp., 2991 Corvin Dr., Santa Clara, CA 95051 (408) 739-3034, TWX 910-339-9241

The Photo Instrument Div. of Redlake Corp. manufactures and markets high-speed cameras, pulse cameras, projectors and accessories. The cameras include the Hycam, Locam and Stalex (all 16mm) and the 35mm Hytax. In addition, it manufactures and markets video disc recording equipment. The Hycam, available in three models (100-ft, 400-ft, and 2000-ft capacities), uses the rotating-prism principle with high-efficiency antireflection coatings to attain maximum picture quality. The Locam includes models of 200-ft and 400-ft capacities. It is available in ac and dc versions. The Locam is an intermittent, pin-registered camera with infinitely varying sampling rates from 8 to 500 pictures/s. The camera is compact and lightweight with solid-state electronic speed control. The Stalex uses a two-sided prism for image compensation of the continuously moving film, achieving sampling rates of 50 to 3000 pictures/s under severe conditions of high acceleration, shock, vibration and temperature. The Hytax (35mm) is a continuous recording camera, completely self-contained. It provides electronic regulation over its full recording range of 30 to 250 ft/s. The video disc recording equipment records at speeds up to 60 sharply defined images per second, and when used with a high-frequency pulsed strobe light, will record at the frequency of the strobe, thereby stopping motion at speeds up to several thousand r/min. NRI Systems, a division of Redlake Corp., designs and builds measuring equipments for applications requiring accuracy and precision. NRI Systems equipments assist in photo data reduction for nuclear research, astrophysics and astronomy, aerial reconnaissance, medical research, cartography and oceanography.

Address inquiries to: the address above.

Reeves Cinetel, Inc., 304 E. 44 St., New York, NY 10017 (212) 679-3550

Reeves Cinetel offers complete facilities to both the audio and video fields servicing the motion-picture, television and radio broadcast industries. Six studios are available for recording narration and mixing for motion-picture and video productions, from TV spots to feature films or programs. In the video department are twelve high-band color videotape machines with four mixing studios for electronic editing or mixing of videotapes and their associated soundtracks into one composite color or black-and-white videotape. Both 35mm and 16mm chains with color correction for integrating motion-picture films into a videotape production are available. Also, electronic fades, wipes, dissolves, reverse motion, etc., and black-and-white and color film transfers, or "kines," using the two-negative process (i.e., picture negative and sound negative) are a part of the video department. The firm maintains a complete processing

laboratory for developing soundtrack negatives and kine negative and positive prints. Latest Reeves developments include: EBR-vidofilm recording for 16mm color release prints, electronic post synchronization for sound mixing, Densichrome and color correction facility for video operations and CDL computerized videotape editing in addition to a total distribution service organization for videotape program syndicators.

Address inquiries to: the address above.

Research Products, Inc., 6860 Lexington Ave., Hollywood, CA 90038 (213) 461-3733

Research Products, Inc., has added to its line of precision-built special-effects equipment Model 2101 Aerial-Image Optical Printer. Model 2101 features a completely electronic printer drive and an operator-oriented central control panel from which all printer functions can be accomplished by setting the appropriate switches. Directly mounted to the camera and each projector head are 72-pole stepping motors to replace involved gear trains, providing vibration-free operation and eliminating inertia-caused flash frames. The field-proven electronic circuitry makes the equipment virtually maintenance-free. Electronic controls have also been applied to a new automatic dissolve mechanism and an automatic skip-frame programmer. A dependable automatic zoom gives up to four times enlargement or 8 times reduction, continuous. While Research Products continues the manufacture of its modular-drive mechanical printers, it can guarantee that the replacement of hundreds of mechanical parts in the electronic-drive models will assure the lowest prices in the industry on quality special-effects equipment. All printers feature Acme components in the super-8, 16-, 35-, and 70-mm formats. Also available are models incorporating the Bell & Howell additive light source, art-to-film aerial-image units, registration contact printers, matte-shot printers, and animation slide-film stands. Exclusive with Research Products are the facilities of its associate company, Cinema Research Corp., providing demonstration under the supervision of some of Hollywood's most experienced effects specialists. Operator training for the equipment purchaser is an optional service. Quotations on custom-designed equipment for specific needs can be furnished on request.

Address inquiries to: Harold A. Scheib, President, at the address above.

Rosner Lamb Inc., 250 W. 57th St., New York, NY 10019 (212) 546-3967

Rosner Lamb Inc. is a management consulting and engineering services firm in television and communications. The firm is engaged in communications system planning, specification, design, fabrication, assembly, installation, checkout, operation and maintenance. The projects completed cover the range of television broadcasting facilities, industrial and government management communications systems, videotape commercial production facilities, education television facilities, office projection and television monitoring facilities, and closed-circuit television systems, CATV systems. The scope of these projects has included financial, management and design studies as well as turnkey installations.

Address inquiries to: I. S. Rosner, W. J. Lamb, at the above address.

Charles Ross, Inc., 333 W. 52 St., New York, NY 10019 (212) 246-5470

Charles Ross, Inc., founded in 1921, is the East's only lighting specialist. A complete inventory of the very latest lighting equipment, grip equipment, props and generators are available for rentals and sales. A fleet of generator trucks is maintained for rentals. A full-service machine shop is maintained for equipment repairs. The company is Greater New York's sole distributor for Mole-Richardson Co. products.

Address inquiries to: the address above.

L. B. Russell Chemicals, Inc., 14-33 Thirty-first Ave., Long Island City, NY 11106 (212) 721-8900 (California branch: 5896 Smiley Dr., Culver City, CA 90230 (213) 870-7773)

L. B. Russell Chemicals was established in 1949 and since that time has engaged in research, manufacture, and sale of photographic and graphic arts chemicals for both color and black-and-white film processing. One of its principal areas of activity is in the motion-picture laboratory where not only does it supply chemicals, but also renders technical assistance

in photographic chemistry as a complementary service. L. B. Russell Chemicals' main plant is located in Long Island City, N.Y. The firm has branches in California and Mexico City.

Address inquiries to: Sales-Service Department, at the address above.

Russell Film Laboratories, 4805 Lenox Ave., P.O. Box 6938, Jacksonville, FL32205 (904) 389-2316

Russell Film Laboratories, founded in 1953, offers complete laboratory services for the completion of motion pictures. The major services offered include: Processing 16mm Ektachrome ECO and EF type films; printing and processing Ektachrome work prints, release prints and masters; 16mm black-and-white negative and positive printing and processing; 16mm black-and-white reversal printing and processing; 16mm color internegative and positive printing; super-8 black-and-white reversal processing. Complete sound services include 16mm and 35mm Westrex optical recorders; 16mm Amega recorder, and dubbers for recording and mixing. Fully equipped editing rooms available for rental.

Address inquiries to: Neil Russell, General Manager, at the address above.

Ryder Sound Services, Inc. and Magnetic Sales Corp. 1161 N. Vine St., Hollywood, CA 90038 (213) 469-6391

The firms serve the motion-picture and television industries. The service organization rents and furnishes magnetic sound recording equipment for production; transfer facilities for providing magnetic sound dailies; and scoring, narration recording and re-recording facilities to provide magnetic masters or photographic negatives for release. Services are available for 35mm and 16mm film. All studios are equipped with the latest backward-forward, Reverse-O-Matic dubbing systems. Dialog replacement facilities are computerized, eliminating loop construction. Facilities are also available for producers of commercial, industrial, educational and religious films. Ryder Magnetic Sales Corp. sells Nagra synchronous tape recorders and accessories. Sela production mixers, and synchronizing equipment, such as synchronous generators and transformers.

Address inquiries to: the address above.

Saudel Associates, Inc., 1 Lethbridge Plaza, Mahwah, NJ 07430 (201) 529-1080

Saudel Associates was incorporated in August, 1968 after 30 years of professional photography background. Our purpose is to provide a complete engineering and manufacturing service for the motion pictures and television industries and the sophisticated professional cameraman. Since its inception, Saudel Associates has worked principally in the photographic industry, both designing and building various types of communications equipment, some of which are: camera conversions for television using color-coded edge lighting to be compatible with vidicon cameras; projector conversions for split image projections, using two prisms and lamps for use with dual audiences; conversion of perforators for the perforating of 1½ and 2 mil coated sound tape and all standard formats; modification of film processing equipment, optical printers and reduction printers; cameras and projectors for three-dimensional pictures and still pictures and still cameras using panoramic movement with lenticular screens. All special tooling, precision parts, and special processes required to achieve the foregoing projects were conceived and executed by Saudel Associates. We provide a complete facility for the design and fabrication of electronic and mechanical components.

Address inquiries to: the address above.

Schneider Corp. of America, 154 Lodi Street, Hackensack, NJ 07601 (201) 343-3939

Our primary business activity is to market and provide technical, design and engineering support in optics, optical systems and sub-systems for O.E.M. of electronic, office copier, microfilm, bio-medical, industrial, graphic arts, theater projection, M.P. Camera, CCTV and other specialized and photo products. The Schneider Corp. of America is a subsidiary of the Joseph Schneider Co., Bad Kreuznach, Germany, and we are the American representatives for Schneider, Isco and Goerz lenses.

Address inquiries to: The address above.

Showchron America Corp., 5707 Cahuenga Blvd., N. Hollywood, CA 91601 (213) 762-9466.

Showchron America was organized in 1970 to develop a complete line of horizontal editing consoles and other devices. The system comprises a complete format of editing, dubbing, and final mix of dialog, music and effects. Also manufactured are editing and viewing accessories for super 8, 16mm and 35mm. Service is worldwide with complete instructions for operation and maintenance.

Address inquiries to: Wm. Stutz at the address above.

Southwest Film Laboratory, Inc., 3024 Ft. Worth Ave., P.O. Box 21328, Dallas TX 75211 (214) 331-8347

Located in Dallas, Tex., for the past 23 years, the firm offers complete "in-house" services for the producer of 16mm films including daily processing of 16mm Eastman Ektachrome Commercial, Ektachrome EF, Ektachrome MS, and Ektachrome Reversal Print Stock; black-and-white original, reversal and positive; black-and-white and color reversal work prints; yellow ink edge numbering on both original and work prints; duplicating of black-and-white and color films; optical printing on the Triad optical printer; and equipment sales. Completely staffed and fully equipped editing rooms are available, or the rooms may be rented on a daily or weekly basis. A preview theater, interlock screening and supplies, are available. Sound services include sound mixing and recording on single and multiple channels; scoring on newly installed Magnatech sound equipment; library orchestral music blended or edited; sound effects; and music library. The firm's major service is the Triad color duplicating method, with additive scene-to-scene color correction designed especially for color fidelity and saturation. A new service is offered: Southwest Film Lab's Ektachrome processing system (Kodak designed), equipped with support equipment to provide silver track application for both Ektachrome, type 7389 and type 7390 print films. This new service makes it possible for faster turn around time on first trial release print orders. Other services include ultrasonic cleaning, and electro printing with the Westrex Recording System. Southwest now offers to the filmmaker, in addition to its standard fade and dissolve lengths of 15 to 90 frames, B & H Model "C" printer effects in 16 to 96 frames providing a total of 13 lengths in any sequence.

Address inquiries to: Jack A. Hopper, Vice-President and General Manager or Charles E. Floyd, Customer Service & Sales, at the address above.

The Strong Electric Div.; Holophane Co., Inc., 87 City Park Ave., P.O. Box 1003, Toledo, OH 43697 (419) 248-3741

Strong Electric, a division of The Holophane Co., has specialized in the design and manufacture of motion-picture projection arc lamps and rectifiers for arc lamps since 1924. Other types of lighting equipment also manufactured are process arc lights for the graphic arts industry, carbon-arc spotlights, carbon-arc slide projectors, searchlights, and traffic-guidance lighting equipment. Other products include carbon-arc solar-radiation simulators and arc-imaging furnaces for high-temperature research. Facilities are particularly adapted for design, development and manufacture of carbon-arc and xenon systems in combination with the necessary optical systems for the effective utilization of light.

Address inquiries to: Arthur J. Hatch, at the address above.

S.O.S. Photo-Cine-Optics, Inc., (a Div. of F&B/Ceco, Industries, Inc.), 315 W. 43rd St., New York, NY 10036 (212) 586-1420; 7051 Santa Monica Blvd., Hollywood, CA 90038 (213) 466-9361

S.O.S. Photo-Cine-Optics, Inc., founded in 1926, is located in midtown Manhattan and also maintains a modern showroom and offices in Hollywood to serve 13 western states. Well-known as "The Department Store of the Motion Picture and Television Industry," the firm stocks thousands of items of professional equipment for producing, processing, recording, lighting, animating, testing, handling and exhibiting motion pictures. The firm has a catalog which has a fully comprehensive coverage of the industry. In addition to the sale of all types of equipment, the firm maintains a specialized rental service, having pioneered in the field of leasing. Expert

technicians service and rebuild all types of equipment under the guidance of the engineering staff. The Engineering Dept. also offers facilities for research and development and specialized custom engineering. Products sold under the S.O.S. Tel-Anima label include: animation equipment, hot-press tilting machine, special-effects title stand, film-cleaning machine, magnetic-stripping machines, viewers, sound readers and mixers, and optical printers. The firm is a distributor for the most famous lines in the industry, including many equipments of foreign manufacture on an exclusive basis.

Address inquiries to: the address above.

TV/Recorders, 6054 Sunset Blvd., Hollywood, CA 90028 (213) 469-8201

TV/Recorders, for the past 21 years, has been involved in the business of recording and re-recording sound for motion pictures and television. It is a signatory to the IATSE branch of the AFL-CIO basic agreement.

Address inquiries to: the address above.

Technicolor, Inc., Box 38-547, Hollywood, CA 90038 (213) 462-6111

Technicolor, Inc., through its Cinema Systems Div., including plants in Hollywood, North Hollywood, Chicago, London and Rome, offers producers of motion pictures a complete laboratory service on a worldwide basis including facilities for processing "front-end work" and for the manufacture of 70mm, 35mm, 16mm, 8mm and super-8 release prints of theatrical, television and nontheatrical subjects. Through its Consumer Photographic Div., with processing plants located from Honolulu in the West to Massachusetts in the East, Technicolor offers a comprehensive service to amateurs for the processing of all types of amateur color film, including 16mm and 8mm cine products, slides and paper prints. Technicolor Vidronics Div. performs color tape-to-film transfer in 35mm, 16mm, 8mm and super 8, and complete video-tape post-production services. The Astrionics Div. manufactures high-speed electronic circuitry. The Commercial and Education Div. manufactures a line of 8mm and super-8 silent and sound portable cartridge-loading projectors.

Address inquiries to: the address above.

Technology Incorporated, HF Photo Systems Div., 11801 W. Olympic Blvd., Los Angeles, CA 90064 (213) 272-4331

The firm specializes in the development and manufacture of Houston Fearless film processing, handling, viewing and printing equipment, television support equipment and silver recovery systems. Other activities include the performance of government and industrial research and development contracts involving the design and manufacture of photographic and related electronic, mechanical and optical equipment to meet a variety of requirements.

Address inquiries to: Marketing Dept., at the address above.

Teledyne Camera Systems, 131 North Fifth Ave., Arcadia, CA 91006 (213) 359-6691

Teledyne Camera Systems pioneered the application of 16mm high-speed photography for space-age research. Milliken Pulse Cameras were standard equipment on all Mercury flights. Milliken High-Speed Cameras have been used on virtually all the nation's major aerospace programs and are currently used in Apollo/Saturn programs to observe launch, stage separation, chute deployment and many other critical functions. The company's cameras are also used in a large number of scientific, industrial and medical applications. Teledyne designs and manufactures high-speed motion-picture cameras, operating from 2 to 500 frames/s. These cameras employ an intermittent movement with register pin to provide studio-quality pictures at all speeds. They are designed to withstand severe environments. In addition to a broad line of cameras, the company offers a selection of accessory equipment including tripods, camera mounts, lenses, lens supports, tracking and viewing accessories and protective housings. The company also manufactures a unique television film recording camera, now being used by major networks in the United States and in foreign broadcast facilities. This camera completely eliminates the shutter bar problem and provides the rapid film transport required for optimum television film recording. Teledyne also manufactures

a complete color video film recording system incorporating the fast pull-down camera. The company pioneered development in the field of air-borne video film recorders. Teledyne has facilities for the design and manufacture of complete photographic systems, has developed and manufactured many special cameras for abusive environments, and provides a consulting service in the application of photography as an instrumentation tool.

Address inquiries to: R. J. Deterville, V.P. Marketing, or F. A. Rodgers, Sales Manager, at the address above.

Theatre Equipment Association, 3130 Oakshire Dr., Hollywood, CA 90068 (213) 876-7384

Founded in 1971, TEA is comprised of two separate membership divisions: a dealer division and a manufacturers division. It has a total membership of more than 100 companies serving the equipment and supply needs of theater owners throughout North America. TEA is governed by a President and a Vice President, each heading a separate division, plus a secretary, a treasurer, and 16 directors evenly divided between manufacturers and dealers. Purpose of the organization is to collect and distribute to its membership, the latest technical information (new theatre equipments, film processes, sound recording, projection practices, etc.) so that members can better serve the exhibitor and allied motion-picture fields, with late technical aides.

Address inquiries to: Whitney Stine, Executive Director, TEA, at the address above.

Tiffen Manufacturing Corp., 71 Jane St., Roslyn Heights, NY 11577 (516) 621-2700

Tiffen Optical Co. offers a unique integration of prototype and production facilities used by the world's leading photographers and technical community. Among the various items produced are all standard colors and Special Effects filters including Diffusion, Star, Low Contrast, Split/Field lenses and Organic and Metallic Neutral Density filters. On call for your every requirement is a large optical production department, modern vacuum coating department, extensive metal machining facilities and the world's leading scientific and optical color laboratory. A complete range of sizes and colors is available to fit all lenses and related equipment.

Address inquiries to: Nat Tiffen and Stan Ernenwein, at the address above.

Todd-AO, 1021 N. Seward St., Hollywood, CA 90038 (213) 463-1136

Todd-AO is a producers' service organization, offering to the producer Todd-AO which is a wide screen 70mm roadshow release with six-track sound. The company is divided into three main areas: Sound Studio, Camera Department, and Magnetic Products. Todd-AO Sound Studio has three sound stages for servicing sound on all formats from 8mm to 70mm, both optical and magnetic, from single track monaural to six-track stereo sound, offering all services from production to release printing. The camera department has a complete line of 65mm cameras, lenses and accessories required to photograph a feature in Todd-AO 70mm. A recent addition to the above equipment is the new Todd-AO 35 system for photographing features in 35mm. The Todd-AO 35 system produces standard anamorphic negatives from which release prints are generated in either 35mm or 70mm film gauge (the latter being an enlargement from the original). Todd-AO distributes a complete range of magnetic products for sound recording; 35mm full coat; clear edge and stripe; 16mm full coat, 1/4 in., 1/2 in. and 1 in low noise and low print, and a complete line of 35mm reclaim stripe.

Address inquiries to: Fred Hynes, Vice-President, at the address above.

Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340 (213) 365-3124

Treise Engineering was organized in 1960. The company has pioneered the development of continuous film processors, utilizing glass fiber laminated plywood tanks. Processors of this type designed and built by Treise Engineering are operating in laboratories throughout the industry. Other than the complete line of developing machines and accessories encompassing temperature control equipment, soundtrack applicators, stainless steel Ott-Lovick squeegees, precision film sprockets and rollers, Treise

Engineering offers a comprehensive engineering and planning service to those desiring modification and updating of existing equipment or assistance on complete laboratory layout. The engineering staff represents practical experience in all phases of laboratory operation and management, and acts as direct liaison between the company and the customer on all proposals or projects.

Address inquiries to: the address above.

Union Carbide Corp., Carbon Products Div., 270 Park Ave., New York, NY 10017 (212) 551-2345

National Carbon Co., now the Carbon Products Div. of Union Carbide Corp., pioneered the carbon industry some 80 years ago in making carbons for street lighting, brushes for motors and generators and furnace electrodes for melting metals. Dry battery manufacture began soon thereafter. In 1917 National Carbon Co. joined forces with Union Carbide Co., Electro Metallurgical Company and Linde Air Products Company to found Union Carbide and Carbon Corp. As the carbon products specialists of what is now Union Carbide Corp., the Carbon Products Div. manufactures a wide variety of fabricated carbon and graphite products including electric furnace electrodes and electrolytic cell anodes; carbon products for processing molten metals, glass, etc.; lighting carbons, brushes for rotating electrical machines; carbon refractories; chemical processing equipment; gaskets and packing; activated carbon; electrical and mechanical specialties; aerospace and nuclear graphite; and carbon and graphite fibers and fabrics. The Division also produces porous metals, boron nitride powder and shapes, pyrolytic boron nitride laboratory ware and special shapes, and intermetallic-composite vacuum-metallizing heating sources. The most important products and services of SMPTE interest are arc carbons for motion-picture projection and studio lighting.

Address inquiries to: P. A. Liptrot, Manager, Arc Carbon Products, at the address above.

Universal Projector Co., 10500 Burbank Blvd., North Hollywood, CA 91601 (213) 980-2570

Universal Projector Co. designs and engineers portable 35mm projectors, extremely light in weight and small in size. The projector is capable of any projection requirement — forward and reverse, separate picture and track, stop frame, variable speed, xenon lamphouse, 5000-ft reels, various remote controls, etc.

Address inquiries to: Box 2309, Toluca Lake Station, N. Hollywood, CA 91602

Henry Ushijima Films, Inc., 2250 East Devon Ave., Suite 121, Des Plaines, IL 60018 (312) 297-2155

Henry Ushijima, founder and president of the firm, has had over three decades of professional filmmaking experience. His name is on a wide variety of film projects and assignments including network television programs, major studio documentaries, training films, research and product-development presentations, sales meetings and campaigns, promotion announcements, public relations projects, film reports and many others. The firm's home base is Chicago, but filmmaking services have been provided in Europe, the Far East and South America.

Address inquiries to: the address above.

V & W Sound Transfers, Inc., 630 Ninth Avenue, New York, NY 10036 (212) PL7-5221

V & W Sound Transfers, Inc., is primarily, as its name implies, equipped to transfer sound from any medium to any other medium. Our modern air-conditioned studios have facilities for mixing, narrations, screenings and a developing machine to process our own negative tracks. We are designed to fit the requirements of editors, directors, producers, and syndicators of commercial or theatrical motion pictures.

Address inquiries to: the address above.

WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, PA 15213 (412) 683-6300

WRS is a motion-picture laboratory serving commercial, industrial and theatrical film producers, as well as educational film teaching and pro-

duction centers throughout 50 states. Facilities include Eastman 16 and 35mm black-and-white and color processing and color additive printing in 8mm, 16mm and 35mm. The optical department is fully equipped with the latest Oxberry and Acme optical bench equipment to handle special effects. Services include full immersion liquid gate optical blowups and reduction printing, optical masters, and intermediate printing in both 16 and 35mm; professional editorial services for creative editing of picture, narration dialogue, music and effects; per reel conforming service and professionally equipped client cutting rooms. Sound recording facilities for live music or library scoring cover more than 5,000 ft². Facilities include multiple channel mixing from 1/4-in; 16 and/or 35mm magnetic film. The interlock and preview theater is equipped with both 16 and 35mm interlock with digital readout capability. Color Tech Film Laboratories, Inc., 640 N. Broad St., Philadelphia, PA 19130 (215) 236-9100, East Coast Division Laboratory, is a wholly owned subsidiary of WRS, Inc. A full service 16 and 35mm laboratory, including a complete sound studio, the Motion Picture Equipment Co. Div. of WRS, Inc. sells, rents and services professional motion-picture camera, lighting, editing, sound-recording, audio-visual equipment and accessories.

Address inquiries to: Director of Marketing, at the address above.

Westrex Co., a Division of Litton Industries, 390 N. Alpine Drive, Beverly Hills, CA 90213

Westrex is a research, sales, distributing, and service organization which specializes in equipment and processes for the recording and reproducing of sound and for the communications and electronics fields. The worldwide Westrex organization has 10 branch offices and 38 representatives which operate outside the United States in 43 countries. Westrex maintains an engineering development and design laboratory staffed by leading specialists in the sound-recording field. These specialists and their West Coast organization have received 12 special technical-achievement awards from the Academy of Motion Picture Arts and Sciences. For 38 of the last 44 years, the Academy has awarded its Oscar for excellence of sound recording to studios using Westrex equipment.

Address inquiries to: Recording Equipment Dept., at the address above.

Wide Range Electronics Corp., 2119 Schuetz Rd., St. Louis, MO 63141 (314) 542-5366

Wide Range Electronics Corp. is best known for advanced-design film record/playback systems and a companion line of dubbing machines. The new W.R.E. electronic system, completely solid state, takes advantage of the latest technology in operational type amplifiers (widely used in computer equipment) to provide low-noise, minimum-distortion performance with maximum reliability. A W.R.E. unit may be equipped for 35mm, 17 1/2mm or 16mm film. Quick-change film transport components make it easy to use the same machine with all three film sizes. Complete interlock systems with remote control including slow start units both single and 3-phase type are available and in stock. Pickup recording is available with selective record/erase. Wide Range Electronics film footage counters incorporate solid-state, integrated computer-type circuitry controlling digital readout lamps. A wide variety of optional features can be supplied. The famous Cinema type 9205A, 64221 and 8905 bulk degaussers are now manufactured by W.R.E., as well as complete line of capacitor, inductor, and resistive decade boxes. High-speed 8mm magnetic sound transfer consoles have been pioneered at W.R.E. and are currently in use at most major laboratories. The Wide Range research and development laboratory custom-designs both magnetic and optical sound equipment to meet the most exacting requirements.

Address inquiries to: Mr. Otto Rauhut, President, at the address above.

Wilding (a Bell & Howell Co.), 4925 Cadieux Rd., Detroit, MI 48224 (313) 882-9166

Wilding Inc., producers of industrial motion pictures and television productions, offers an extensive marketing-oriented service in the area of business communications. In addition to, and in some instances related to, its film and TV productions, the firm produces slidefilms; printed materials, such as charts, bulletins, presentation books, etc.; recordings; slides; point-of-scale materials; and live shows. Services include arrangement of meetings, rental and sale of equipment, and training and supervision of projectionists. Motion picture and television production fa-

ilities are located in Detroit. Other facilities are located as follows: Southfield, Mich.; Inkster, Mich.

Address inquiries to: Robert F. Kohlrust, Vice-President/General Manager.

Wil-Kin Inc., 301 North Ave., N.E., Atlanta, GA 30308 (404) 876-0347; 150 Walton St., N.W., Atlanta, GA 30303 (404) 522-4613; 305 S. Church St., Charlotte, NC 28202 (704) 333-6101

Wil-Kin Inc. is a multibranch company serving theater, educational, church, and commercial organizations with supplies, equipment, manufacturing and engineering services. Primarily serving Southeastern United States, the company also markets certain exclusive products to all parts of the continental United States. Engineering services include advanced theater planning, custom seating/viewing layouts, interior decorating services, sound and projection and public address planning and engineering plus full equipment planning and installation for all phases of theater operation, including general auditorium activities. The Education-Church Branch is devoted to equipment, planning, and supplies for schools, colleges and churches, including audio-visual equipment, teaching aids, etc. The Service Branch includes regular and routine sound service operations, for theaters and other film-using operations. The Development and Engineering Branch is noted for the exclusive Ultra-Vision projection and sound system for theater use, and this branch also engages in design development of new products released by other manufacturers. The Wil-Kin staff includes numerous engineers, and has direct contact service with regional architects. The company manufactures special equipment, custom draperies, and upholstery. It also designs and manufactures electrical and electronic equipment including automation controllers; mechanical devices including 35mm projector bases; and Optiverters. It also engages in the design and development of custom electrical, optical and mechanical equipment for special exhibits and other custom requirements.

Address inquiries to: G. M. Berggren, at 301 North Ave., N.E., Atlanta; Charles Fortson at the Walton St. office, or Harry Wayne at the Charlotte office address.

Gordon Yoder, Inc., 2840 Reward La., Dallas, TX 75220 (214) 357-3045 or 357-2725

Gordon Yoder, Inc. was originally founded in 1952 by Gordon Yoder to convert Cine Voice cameras to 400 ft and 1200 ft operation. Later, equipment sales were added and a number of products were developed for the TV News field: portable battery packs, shoulder pods, etc. In 21 years the company has shown continued growth and is now in its own 8000 ft² building, still modifying Auricons and producing various pieces of equipment. Service is foremost, including a factory authorized Canon Scoopic repair station; lens repairs using genuine Angenieux equipment and parts as well as Angenieux trained technicians; Auricon and Bell & Howell Filmo repair; also Arriflex repairs. Just now on the market is the new Yoder Crystal 16 Camera which was totally designed and built in our own shop, with the exception of the film centerplate, which is made by Bach Auricon. This is one of the new breed of lightweight crystal-drive cameras. Immediate delivery.

Address inquiries to: the address above.

Yokohama Cinema Laboratories, Inc., No. 22, Kuritaya, Kanagawa-Ku, Yokohama, Japan 045-321-5141 (Japan)

The Yokohama Cinema Laboratories, Inc., established in 1923 by R. E. Saeki, pioneered 16mm production in Japan. It later turned its efforts toward 8mm and succeeded in the production of 8mm optical sound in 1961. In 1965, it was the first to announce the Super 8 Optical Sound Film. Its main laboratory is situated in Yokohama with a branch laboratory in Tokyo. They are engaged mainly in the processing of TV films (shows, newsreels, commercials, documentaries, etc.), educational films and industrial films. The facilities and equipment are capable of 35mm, 16mm and 8mm color and black/white film processing, 16mm and 8mm optical and magnetic sound recording, all optical effects, 16mm and 8mm magnetic striping and production of magnetic tape.

Address inquiries to: Yauso Saeki, at the address above.

**Zoomar, Inc., 55 Sea Cliff Ave., Glen Cove, NY
11542 (516) 676-1900**

Since the day in 1947 when newsreel audiences were startled and thrilled by dramatic shots of the Dodger/Yankees World Series captured by the first zoom lens, the name Zoomar has been synonymous with progress in optics. Famed for pioneering in the field of varifocal optics, Zoomar Inc. of Glen Cove, N.Y., has produced many other firsts in the optical industry since that famous "Zoomar Lens" which revolutionized motion-picture and television techniques. The many military systems developed for combat photography and training devices during World War II were followed by the more sophisticated remote-controlled optical instruments required for use in today's technology. Based on the Zoomar Reflector lenses, which were the first mirror optics produced for long-range photography, the Dual Lens and 2N1 Tracking systems combined catadioptric with varifocal optics in instruments which operated simultaneously with motion-picture and television cameras. A recent unique system is the Zoomar Universal Tracking Combination, which can be used interchangeably for motion-picture, TV or visual observation, with optical and electromechanical components which can be assembled easily in the field. With the advent of the space age came new demands for optical systems for underwater photography, low light level observation and telephoto instrumentation. Zoomar met these challenges with new designs including the Zoomar Night Vision Scopes, and a series of Modular Hi-Speed CAT systems for use in infrared and visible spectrum ranges, and the Zoomatar LLL Lenses with focal lengths from 75mm to 250mm, $f/1.3$. In the field of closed-circuit television, Zoomar con-

tinued to develop the remote-controlled zoom lenses such as the ITV Mark III, IV, VI, XB-1 and XX lenses, with modifications and accessories to meet requirements for special applications. Having acquired the former Kilfitt factory in Munich, West Germany, during this period, the Zoomar expertise has been applied also to the production of high-quality, versatile lenses for commercial, scientific and amateur photography. These Zoomar products include the 40mm, 90mm and 300mm Macro Kilars, the 400mm and 600mm Sport Fern Kilars, and the 500mm and 1000mm Sport Reflectors. These macro and telephoto lenses can be used with all major 35mm SLR, $2\frac{1}{4}$ -in \times $2\frac{1}{4}$ -in SLR, C-mount motion-picture and TV cameras. The Sport Kern Kilars, as well as the Sport Reflectors, are used extensively throughout the world for newsreel, wildlife and documentary photography. When varifocal optics for still cameras were a photographer's dream, Zoomar produced the first zoom lens for SLR cameras, the Voigtlander-Zoomar, 35mm to 82mm, $f/2.8$, followed by the Macro Zoomar, 50mm to 125mm, $f/4$ for 35mm SLR cameras. This year, the Rapid Focus Tele Zoomar will be introduced, 170mm to 320mm, $f/4$, for use with $2\frac{1}{4}$ -in \times $2\frac{1}{4}$ -in SLR and 70mm motion-picture formats. Of highest optical quality, the new RFTZ has a unique mechanical configuration designed specifically for use in fast-action photography. During these years of achievement, the research and development programs have resulted in several high-precision testing instruments—the Zoomar Opticometer, T-Meter, Service Collimator and the MTF Meter. With the rapidly changing state of the art in today's technology, Zoomar, Inc. will continue to develop new optical systems to meet the requirements for progressive optics.

Address inquiries to: the address above.