

NOW—The Tripod that Sets New Standards

The
Newest

PROFESSIONAL JR.*
TRIPOD Obsoletes all others

Always considered the ultimate in tripod performance, the newest PROFESSIONAL JR. incorporates these great, up-to-date improvements:

- Simplified camera attaching method with easily accessible knob
- Adjusting telescoping pan handle with adjustable angle, and sockets for left, right or reverse tilt
- Special pan tension adjusting knob, independent of pan lock
- Cast in tie-down eyelets
- Self-aligning double leg locking knobs

With all these remarkable improvements, PRO JUNIOR still maintains the precision workmanship which has made it world famous, still offers America's greatest tripod value. **THERE IS NO INCREASE IN PRICE.**



SALES
SERVICE
RENTALS

*Reg. U. S. Pat. Off. Pat. No. 2318910

ADDITIONAL CECO PRODUCTS: Complete line of 16 and 35mm Motion Picture Cameras—Mole Richardson & Colortran Lighting Equipment—Sound Equipment—PHOTO RESEARCH Color Temperature Meters—Moviola—Dollies—Ace Clear Vision Splicers—Editing Barrels—Editing Rocks—Electric Footage Timers—Exposure Meters—Silent & Sound Projectors—Screens—Film Processing Equipment—Film Shipping Cases—Film Editors Gloves—Marking Pencils—Retractable Grease Pencils—Rapidograph Pens—Flomaster Pen Sets—Kum Kleens Labels—Blooping Tape—Blooping Ink—Dulling Spray—Alpha Ray Plutonium Lens Brushes—Filters—Used Number & Letter Punches.

Obituaries



Oscar F. Neu, Fellow and former Governor of the Society, died after a long illness, on the night of August twenty-seventh at his home in Crestwood, N. Y.

With Oscar Neu's passing, the Society and motion-picture and television industries lost a treasured pioneer, whose mechanical contributions and genuine good fellowship will be long remembered.

Born in Buffalo, N. Y., in 1886, Oscar Neu entered show business in his early years, trouping with Al Wilson, the famous German comedian of the day. The motion picture soon beckoned, with the result that he was cast in some of the early films produced in the Fort Lee studios. His early stage experience was soon recognized and he gained the position of Assistant Director, participating in the production of the then highly popular Mutual Girl series of films. In 1915 he left film production to establish the original phase of his motion-picture equipment business. One of the first rugged metal reels was his development, as was a metal film shipping case, which replaced the friable fiber boxes then in use. He also established one of the first film salvage plants for the recovery of silver contained in photographic emulsions.

Through his able guidance and understanding of the industry needs came many of the devices which are now considered standard by those who handle films. Among his contributions are the many types of film storage racks and metal cabinets for the individual fire-safe segregation of nitrate film reels in projection booths, which provided hitherto lacking fire safety in theaters. His development of the insulated and fire protected film storage cabinet won the approval of fire and insurance underwriting authorities throughout the world and it is still considered the accepted device for the protection of irreplaceable negative films.

The list of his achievements in developing devices of aid in the physical handling of films are seemingly endless in number, and to those engaged in the use of motion-picture film, they will remain as a living tribute to his constant interest in the industry, our Society, and the Theatre Equipment and Supply Manufacturers Association, of which he was a founder and whom he ably served as President for six years.

The passing of Oscar Neu will leave a void that will be hard to fill. His faithful devotion to our Society, his constant readiness to serve and work in the interest of progress, his comradeship and love of

COMPLETE MOTION PICTURE EQUIPMENT

RENTALS

FROM ONE SOURCE

CAMERAS

MITCHELL

16mm
35mm Standard
35mm Hi-Speed
35mm NC • 35mm BNC

BELL & HOWELL

Standard • Eyemo • Filmo

ARRIFLEX

16mm • 35mm

WALL

35mm single system

ECLAIR CAMERETTE

35mm • 16/35mm
Combination

AURICONS

all models single system
Cine Kodak Special
Maurer • Bolex
Blimps • Tripods

DOLLIES

Fearless Panoram
McAlister CRAB
Platform • Western
3 Wheel Portable

LIGHTING

Mole Richardson
Bardwell McAlister
Colortran
Century
Cable
Spider Boxes
Bull Switches
Strong ARC-Trouper
10 Amps 110V AC 5000W-
2000W-750W
CECO Cone Lites
(shadowless lite)
Gator Clip Lites
Barn Doors
Diffusers
Dimmers
Reflectors
ZOOMAR 35mm

WE SHIP VIA AIR, RAIL OR TRUCK

EDITING

Moviolas • Rewinders
Tables • Splicers
Viewers (CECO)

GRIP EQUIPMENT

Parallels • Ladders
2 Steps • Apple Boxes
Scrim • Flags
Gobo Stands
Complete grip equipment

SOUND EQUIPMENT

Magnasync-magnetic film
Reeves Maglicorder
Mole Richardson Booms and
Perambulators

Portable Mike Booms

Portable Power Supplies to
operate camera and recorder

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CAMERA EQUIPMENT CO., INC.

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his fellow man will be forever a treasured memory and inspiration to all who form our Society.—*John B. McCullough.*



Dr. Otto Sandvik, head of the physics division at the Eastman Kodak Company's Research Laboratories until his sudden death on October 8, 1957, joined the Kodak organization as a physicist on July 2, 1924. He was known internationally for his work on the physics of the developed image, spectral sensitivity of photographic emulsions, and the photographic aspects of sound recording.

In September, 1927, he was placed in charge of a sound-on-film research department for intensive research in the photographic aspects of recording, processing, and reproducing sound motion pictures. He conducted some of the first research in the world in sound recording on 16mm film.

Dr. Sandvik was appointed assistant superintendent of the physics department in February of 1932. Following World War II, in 1946, he headed also a department to investigate the photographic aspects of motion pictures for television reproduction. Dr. Sandvik became head of the physics division in April, 1953, the position he held until the time of his death.

Dr. Sandvik was active for more than 30 years in the Society of Motion Picture Engineers where he served on several engineering committees and assisted in the formulation of many American Standards. He published a total of 17 scientific papers of which 9 appeared in the *Journal* and one in the *Transactions* of this Society.

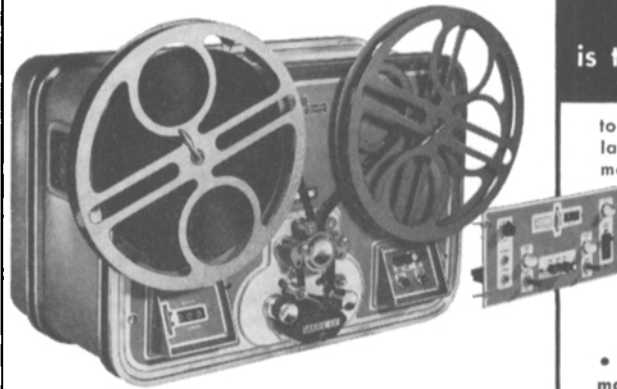
During World War I, Dr. Sandvik served in the Meteorological section of the U.S. Army Signal Corps. In World War II, he directed and worked on a number of the special projects for the Armed Services.

Dr. Sandvik was born in Vaage, Norway on April 13, 1893, and he received a B.S. degree from the University of North Dakota in 1920. He studied at the University of Wisconsin and the University of Chicago; and, in 1924, Northwestern University awarded him a Ph.D. degree in physics.

Dr. Sandvik held memberships in Sigma Xi, national scientific honorary fraternity, the Optical Society of America, the American Institute of Physics, and the American Association for the Advancement of Science. He was a Fellow in the Society of Motion Picture and Television Engineers.—*Glenn E. Matthews.*

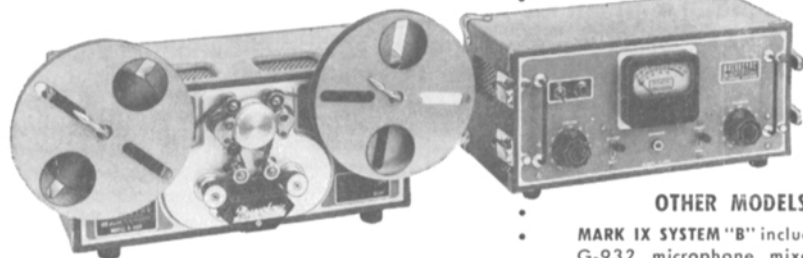
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presents the new **Magnasync**
Magnaphonic Sound Recorders



The New MARK IX MAGNAPHONIC SOUND SYSTEM, SYSTEM "A"

with built-in record play amplifier and remote control assembly is an engineering achievement with exclusive features found in no other recorder. Has recording, playback, and bias oscillator circuits enclosed in separate plug-in assemblies; easy accessibility to all amplifier components; push-button motor controls; remote control footage counter, record-play & film-direct monitor switches. Available in 16mm, 17½mm & 35mm priced from **\$2,145.00**



Model X-400

is a completely synchronous 16mm Magnetic film recording channel, professional in every detail. Can be operated in "console" position, as shown, or stacked as one unit. Features simple camera or projector interlock, instantaneous "film-direct" monitoring, and low power consumption. Ideal for the low budget producer.

\$985.00

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For quality & economy
MAGNASYNC
is the perfect answer—

to the needs of film producers, large or small, feature or commercial, because—

- It delivers clean, distortion-free sound.
- It is compact, lightweight, portable, meets the latest SMPTE standards.
- It serves every segment of motion picture and spot TV production.
- Purchaser is not required to pay royalties on footage consumed.

BUT MOST OF ALL, the MAGNASYNC MAGNAPHONIC line contains exclusive features found in no other recorders, yet all carry low, low price tags.

Trust your own ears—trust your Sound Man's judgment. Switch to MAGNAPHONIC SOUND.

OTHER MODELS:

MARK IX SYSTEM "B" includes Model G-932 microphone mixer with 2 channel slide wire attenuators.
\$2,820.00

MARK IX SYSTEM "C" includes Model G-924 microphone mixer and remote control assembly packaged in matching portable case.
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TYPE 5 features built-in Monitor amplifier, separate overdrive torque motor, record gain control, and playback control. Priced from
\$1,570.00

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SAVE 200%
OF YOUR
DEVELOPING COSTS
ON
STILL & MOTION PICTURE
FILMS
WITH
PRA 400
the developer formula
with ENERGY-PLUS

developed
in fine-
grain



developed
in PRA
400

John I. Newell, Western Cine Service Inc. of Denver, Colorado says of PRA 400, "Two years ago we obtained a sample of the Hoffman Laboratories developer known as PRA 400. This formula had been very successfully used for fine-grain development of still film. OUR TESTS INDICATED THAT IT WOULD BE VERY WELL SUITED FOR MOTION PICTURE FILM DEVELOPMENT."

Enough of the prepared powder was obtained to mix 20 gal of developer plus a supply of the PRA 400 replenisher formula. "THIS INITIAL SOLUTION HAS BEEN USED TO PROCESS NEARLY 100,000 FT. OF NEGATIVE FILM IN THE PAST YEAR. THE INHERENT KEEPING QUALITY FAR EXCEEDED EXPECTATIONS. At standard ASA ratings, films were immersed for 2 min at 72 F in this developer. DELIVERY RATE TRIPLED OVER THAT OBTAINED WITH D-76 AND THE COST OF CHEMICALS WAS REDUCED.

"Image quality was noteworthy, grain at a minimum, even in forced processed negatives. Contrast remained normal throughout the scale of the film. No staining or spotting problems have ever been encountered. Direct comparisons of identical negative materials processed to equal gamma in PRA 400 and D-76 have been made. The PRA 400 has proven to be a finer-grain formula. In terms of density range, PRA 400 and D-76 are quite similar. On several occasions Eastman Type 7302 release positive was processed in this developer. The low-contrast result was well suited for telecasting. Kinescope recording film Type 7374 responded very well and proved quite simple to achieve the indicated gamma of 1.1 consistently. IN POINT OF FACT, WE HAVE BEEN ABLE TO PINPOINT OUR CONTROLS WITH FAR LESS DRIFT THAN EVER BEFORE."

PRA PRODUCTS, INC.

distributed by HOFFMAN LABS., INC.

350 W. 50th ST., NEW YORK, N.Y.



Alfred C. Buensod, 71, died November 25 at his home in Scarsdale, N. Y., after a long illness. He was graduated from Stevens Institute of Technology in 1907 with the degree of Mechanical Engineer. Following his graduation he specialized in air-conditioning processes. In 1930 he designed and installed the \$1 million air-conditioning system in the RCA Building in Radio City. In 1935 he organized the firm of Buensod-Stacy, Inc. He was President of the firm until 1956 when he resigned to become Chairman of the Board. A member of this Society, he was also a Life Member of the American Society of Mechanical Engineers and a Fellow of the American Society of Heating and Air Conditioning Engineers, a member of the American Society of Refrigerating Engineers, Acoustical Society of America and other organizations.

Joseph T. Rucker, 70, a newsreel camera, man whose assignments spanned four decades of tragedy and drama, died October 21 at his home in San Francisco. A close friend of many members of the SMPTE San Francisco Section, he maintained headquarters in that city while roaming about the world on news assignments. His photographic achievements included filming the Admiral Richard E. Byrd Antarctic expedition from 1928 to 1930 for which he received an Oscar and was decorated by the Navy. Other events which he covered included the Japanese earthquake of 1923, Chinese civil wars and the invasion of China by the Japanese. He served with the Navy as photographer during World War II. His career began in 1913 when he joined Universal as newsreel cameraman. Later he was associated with Pathé News and from there went to Paramount. At the time of his retirement in 1954 he had been associated for a short time with NBC News.

1687 Reasons Why You and Your Company Should Support the American Standards Association is a 32-page booklet published by the American Standards Association, 70 E. 45 St., New York 17. The booklet points out the importance of standards to international trade and describes the economies effected by the establishment of standards. The booklet is available from the Association upon request.

**books
reviewed**



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Manual of Practical Projection

By Robert A. Mitchell. Published (1956) by International Projectionist Publishing Co., 19 W. 44 St., New York 36. vii + 450 pp., illus., tables, diagrams, 5½ by 8½ in. Price \$6.00.

This book is a practical, concise, useful manual for the professional projectionist. It is well organized and well cross-referenced in a comprehensive index. Every major item in an operating booth is covered. The manual starts with many practical suggestions and much interesting information on motion-picture film and its handling in the booth.

Next, the essentials of a modern projector mechanism are discussed with many practical operating suggestions.

Optics, screens and arc lamps are separately covered, and then a separate section of general projection practices gives many useful and practical suggestions on overall daily projection problems.

Power supplies for the arc lamp, including both motor generator and rectifiers, are fully discussed. Sound reproduction systems from the early disk reproducer down to our current CinemaScope magnetic sound systems are covered.

The last part of the book covers projection of color and 3-D films. Many interesting and practical suggestions are made for improvement in projection. The final chapter is entitled "Useful Projection Formulas." Many formulas directly applicable to the professional projectionist's daily work are listed. Practical applications of these formulas are shown.

The Manual should be of great interest to the professional projectionist as it covers many, many points in which he will naturally be interested; and in addition, it gives many down-to-earth suggestions to help improve the projectionist's daily operation of his booth.—*Ralph H. Heacock*, Medford Lakes, N J.

**Encyclopédie Prisma de la Couleur
Photo Cinéma**

Published (1957) by Les Editions Prisma, 26 Rue Desbordes Valmore, Paris 16, France. 247 pp. + 3 pp. index + i-xxxii advertisements. 32 color illus. 6¼ by 9 in. Price 3,330 f.

This book was compiled under the direction of M. Dérivé, the Secretary General of the Center for Color, and L. Caillaud. The various sections were prepared by ten individuals, each well versed in the subject matter which he contributed. This type of preparation has led to a book in which the various subjects are well handled but in which the style and emphasis vary a great