

26-30 at the New York Coliseum, New York.

Three photographic scientists in the Kodak Research Laboratories have been named Senior Research Associate, a title reserved for those who have made significant contributions over a period of years to the work of the laboratories. They are: John Spence, Nicholas H. Groet and Forrest Richey. Dr. Spence has been with the Laboratories for 25 years and has made noteworthy contributions in the field of optical sensitizing of photographic emulsions. Mr. Groet has been with the Laboratories since 1934 and is considered an authority on color films. Mr. Richey has been with the color photography division of the Laboratories since 1944. His work has been concerned mainly with the development of various types of color films and he has also worked on the development of processing methods.

Major General J. B. Medaris was elected Chairman of the Board of Electronic Teaching Laboratories, Washington, D.C., following his retirement from the Army, January 1, 1960, after 37 years of service. Maj. Gen. Medaris, who commanded the Army Ordnance Missile Command and directed missile and space programs, was guest speaker at the Society's Convention at Miami Beach, May 4, 1959. His address on "The SMPTE, The Army, Missiles and Space Vehicles" appears in the July 1959 *Journal* (pp. 490-491).

J. R. Johnstone has been appointed administrative assistant in the office of William H. Feathers, President, National Carbon Co., Division of Union Carbide Corp. He was formerly marketing manager of carbon products.

New assignments within the marketing organization of National Carbon Co., division of Union Carbide Corp., include Curry E. Ford, Director of Marketing; James King, Jr., Manager, Electrode Products; A. W. Wolff, Manager, Industrial Carbon Products; W. C. McCosh, Manager, Carbon Products; and W. G. Pitt, Manager, New Product Market Development.

Eric J. Sheldon has been appointed Director of National Sales for Standard Camera Corp., 319 Fifth Ave., New York. Prior to his present appointment he was Sales Manager of the Eastern Division, Technicolor Products, Inc. He has also held managerial posts in Kling Photo Corp., and O.W. Ray Corp., where he was a vice-president.

Cecil S. Bidlack of Smith Electronics, Inc., has joined the firm of Carl E. Smith Consulting Radio Engineers, Brecksville, Ohio. Mr. Bidlack was formerly with the National Association of Educational Broadcasters. In his present post he will be engaged in consulting work in television and FM broadcast.



books reviewed

Sound in the Theatre

By Harold Burriss-Meyer and Vincent Mallory. Published (1959) by Radio Magazines, Inc., P. O. Box 629, Mincola, N.Y. 95 pp. incl. index, illus. and diagrams. 10½ by 8½ in. Price \$10.00.

Sound in the Theatre is an exposition for the benefit of those who plan, supply and utilize electronic equipment for public address, sound reinforcement, or for specialized theatrical purposes. Several chapters are devoted to an elementary discussion of the characteristics of sound, hearing and architectural acoustics. Sound sources and means for microphone pickup are described. Some aspects of typical sound systems are considered: the combination of amplifiers, mixers, volume indicators and monitoring facilities which may be required. While one can use such information as a guide, problems of distortion, signal to noise, grounding and shielding are left to the experience of the user. No discussion is given pertaining to the various forms of electrical equalization which may be employed to simulate various sound effects.

The use of set-up sheets or an adaptation of musical scoring is demonstrated as a useful means of controlling complicated sound effects accompanying drama. These have been used by the reviewer in the past to score battle noise sound sequences and are quite effective.

This book should prove to be useful for those interested in the use of sound to augment drama; and it has at least sufficient information, to cause those interested to seek additional technical detail in the literature.—F. L. Hopper, Bell Telephone Laboratories, Inc., 3300 Lexington Rd., S.E., Winston-Salem, N.C.

Cinefluorography

Edited by: George H. S. Ramsey, M.D., James S. Watson, Jr., M.D., Theodore A. Tristan, M.D., Sydney Weinberg and William S. Cornwell, M.A. Published (1959) by Charles C. Thomas, 301-327 E. Lawrence Ave., Springfield, Ill. x-xvi + 266 pp. incl. contents, illus. and diagrams. 7 by 10-in. Price \$11.75.

Drs. George H. Ramsey and James S. Watson, Jr., should be congratulated on organizing the first Symposium on Cinefluorography in this country. There was a great need for the exchange of ideas and experience among various workers engaged in this field, and this Symposium

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proved to be an excellent solution of the problem.

The proceedings of the meeting held in Rochester are very well presented in this monograph. The text is clear and the illustrations are informative. The contents cover the entire field of x-ray motion pictures starting with the historical review of the subject, and ending with the latest technical development in image amplifiers. There are some omissions in the historical outline of the development of cinefluorography. In particular the patent literature is not described at all and the earliest patents for x-ray image amplifiers such as Langmuir, U.S. Patent No. 2,198,479, and Sheldon, U.S. Patent No. 2,555,423, are not mentioned.

The problems of making x-ray motion pictures are analyzed in many aspects in separate chapters. The x-ray image amplifiers, without which it was impossible to produce adequate x-ray motion pictures of humans, are well described in chapters by A. Lignon, J. Feddema, J. Jacobs and B. Kazan.

The optical and photographic equipment necessary for cinefluorography are well discussed by G. Chambers, F. Dreisinger, R. Kingslake, F. O'Brien, G. Corney and Dr. J. Watson and S. Weinberg. The very important problem of the x-ray dose received by the patient in making the x-ray motion picture is well analyzed by Dr. T. Tristan. The medical diagnostic value of the x-ray motion picture is treated rather shortly; as Dr. F. Campeti explains it, this branch of radiology has not as yet been developed as it should be. Only 3% of published papers on cinefluorography deal with diagnostic analysis of x-ray motion pictures.

In conclusion this book fills an important gap in radiological literature. We hope that the second Symposium on Cinefluorography will be published in the near future.—E. E. Sheldon, M. D., Radiologist, 30 E. 40 St., Professional Medical Bldg., New York 16.

The Sixth Edition of the Audio-Visual Equipment Directory has been brought up to date with illustrations and descriptions of new equipment and contains two new illustrated sections, Language Laboratory Systems and Transparency-Making Equipment. The latter section describes 36 different pieces of equipment used to produce transparencies for overhead projectors. The volume contains 250 pages, is 8½ by 11-in., plastic-bound. Editor is James W. Hulfish, Jr. It is available from National Audio-Visual Association, Fairfax, Va., at a price of \$4.25 if payment accompanies order, otherwise, \$4.75.

Career: For the Experienced Engineer and Scientist is published by Careers, Inc., 15 W. 45 St., New York 36. The Winter 1960 edition is available at a price of \$1.95. The publication is distributed without charge to alumni of ECPD-accredited colleges and universities through alumni placement offices or other accredited agencies. The volume gives a rundown of job information contributed by officials of the main companies employing engineers and scientists.

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