

Communications and Electronics is a new magazine published in England and concentrating on the uses to which new communication techniques and electronic devices can be put. Articles in the first issue, which appeared in September, included: communications and navigational aids in civil aviation; the applications of radio and allied techniques on British railways; colour television—present and future; transistors—a candid assessment; and automatic computation in research, industry and commerce. The magazine is published monthly, at \$6 for twelve issues, by Heywood & Co. Ltd., Drury House, Russell St., Drury Lane, London W.C.2.

Armed Forces Institute of Pathology Three-Day Symposium

Held on January 17-19, with headquarters at Washington, this symposium of the Armed Forces Institute of Pathology centered about closed-circuit television and color television, ending with a three-city consultation by color television.

Early in the symposium, Ken Thomas, Head, TV Production Branch, Special Devices Center, Office of Naval Research, Port Washington, N.Y., spoke on "Closed-Circuit Television in Medical Education and Research," covering the basic principles of flexibility for originating equipment with the small, portable, vidicon camera chain as an example. To overcome the obstacle of using only one camera, the Special Devices Center has developed its Instructional TV System consisting of two image-orthicon cameras on two separate consoles on wheels. There is a master console and camera and a slave console and camera.

Dr. Alfred N. Goldsmith, pioneer electronics engineer and inventor, told how color television can now serve as a revolutionary tool for diagnosis, consultation, teaching and research in the fields of medicine and biology. He advised: "The system adopted for medical purposes should, to great advantage, be identical with the governmentally approved, simultaneous and compatible system now in vogue for broadcasting purposes. . . . If, on the other hand, color pictures of equal detail on an incompatible system were transmitted, the network coaxial cable or radio-relay connections would have to accommodate a frequency band of 8 to 10 mc width. This is two to three times as wide a band as is needed for compatible color-television signal transmission. Such a change would accordingly result in greater transmission costs and probably more limited availability of the corresponding special circuits and trained operating personnel qualified to handle them."

On the last day of the symposium, the cities of Baltimore and Washington were linked by closed circuit, by Radio Corporation of America, to Philadelphia where surgeons in an operating room of the University of Pennsylvania Hospital removed tissue from a patient for examination by a pathologist at Philadelphia and also by pathologists in Baltimore and Washington who saw microscopic views brought them by color television. An exchange of remarks about the diagnosis was made instantaneously.

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