

should generate an attractive force between the two, he added. In 1937 the meson was discovered.

Within a few years many new measurements had been made on the meson provoking a strange new puzzle. The measurements did not fit any of the known theoretical mathematical models of matter.

On top of this problem the cosmic ray and atomic accelerator scientists began to discover more particles of different weights and electric charge. Now more than a score are known. Nobody has proposed an adequate theoretical scheme to account for them, predict new ones or discover how they might behave inside the nucleus. In the last year no new particles have been found; which led Dr. J. Robert Oppen-

heimer to remark at the conference, that scientists could be in possession of the ultimate atomic particle — but he was not sure.

In addition to the profusion of particles, it is now discovered that some of these particles have the weird property of seeming to be completely alike in every respect but behaving differently in the way they disintegrate and in the way they interact with other particles. For this the physicist is now forced to find new mathematical explanations.

There is a strong feeling among many of the theoretical physicists that some of their cherished principles like the conservation of energy or the constancy of the velocity of light may have to be sacrificed to make a new scheme for the new particles.

The Television Society

The Television Society was founded in 1927 in Great Britain when a young Scotsman, J. L. Baird, appeared before the British Association for the Advancement of Science and demonstrated his invention of "seeing by wireless." A rather touching comment on pioneers in general and Baird in particular is given in a booklet about the Television Society. After describing the gradual development of television, it notes: "The year 1934 saw the start of high-definition television and the doom of mechanical scanning systems. J. L. Baird, who had his main interest in optical and mechanical studies, did not take kindly to the inevitable changes and retired to his private laboratory to experiment with colour and stereoscopic television."

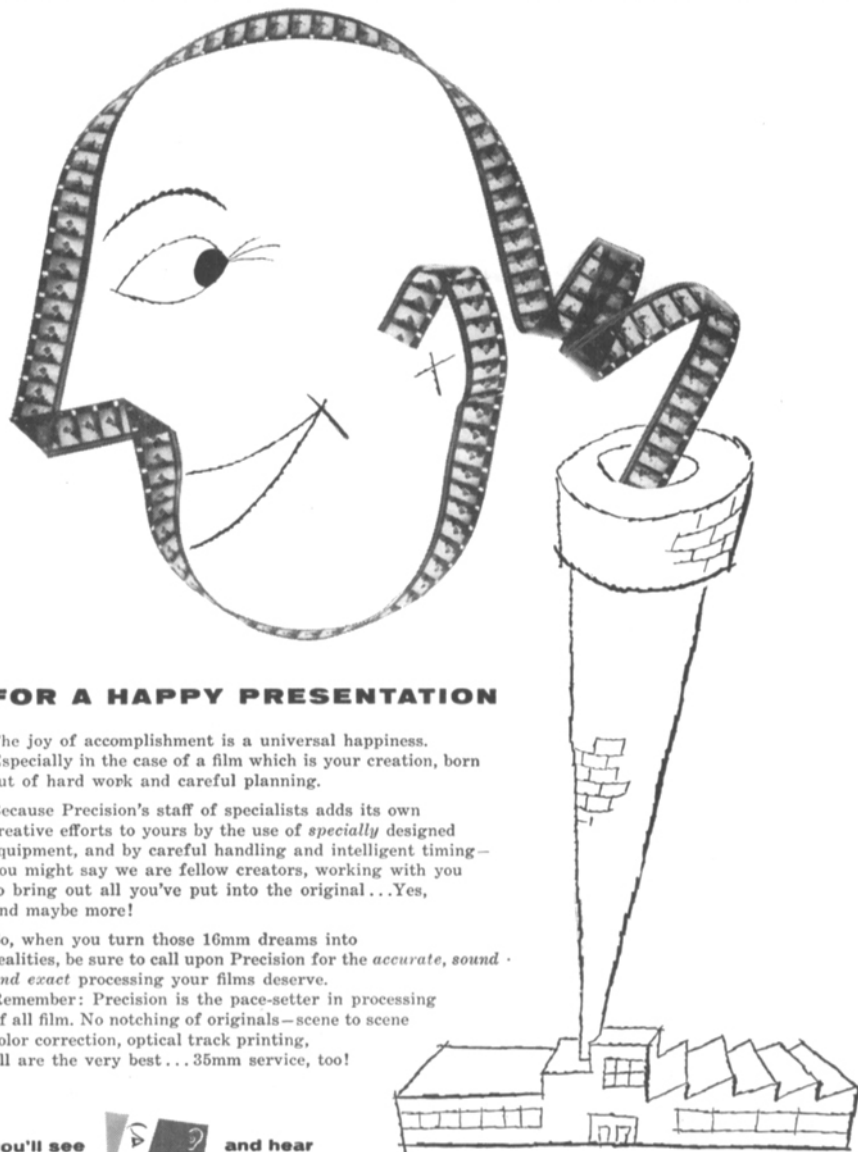
Baird's first public appearance to show his invention had been before the Royal Institution in January 1926. A year later, after he had developed a new method of scanning an image by means of infrared radiation, he was invited to appear before the British Association. With his assistant, J. J. Denton, he gave daily demonstrations of what he termed "Noctovision" and television. Interest in the new invention was immediate, and approximately 50 enthusiasts formed the nucleus of what was to become the Television Society that now claims over 1000 members.

By 1928 the first regular transmissions were being sent out from the Baird Company's station "2TV" at Long Acre. They were of a 30-line picture repeated 12½ times per second, with vertical scanning. This standard persisted until the closing of the BBC studio in Portland Place from which the signals were transmitted to Brookman's Park. In 1930, BBC took over the transmission of television and a program was broadcast for half an hour each night, vision on 261 meters and sound on 365 meters.

The cathode-ray tube, as a means of reproducing television pictures, had been the subject of experiment by von Ardenne, Baird and others as early as 1929, and in 1931 the first symposium on cathode-ray television was held by the Society at University College. By 1934 the trend of the Television Society had begun to alter. From a group of enthusiastic amateurs, the Society gradually came to attract persons who were making a career of television. It is now a specialist society, appealing primarily to professionals, although it accepts applications from all interested in television. Its interests are limited to the furthering of television, as distinct from the entire field of radio communication.

The Television Society is a nonprofit organization which performs the expected functions of holding meetings, dispensing information in its *Journal* and by a monthly news bulletin to its members. Its quarterly *Journal* has many worthy articles such as these recent ones: "An Industrial Television Channel," "An Unconventional Wired Television Distribution System," "Operating Experiences with the BBC Television Studios at Lime Grove" and "Experimental Colour Television."

The Society's *Journal* is now in its eighth volume, seven volumes of three years each having already been published and being



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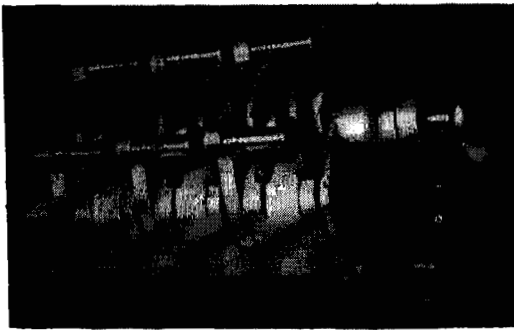
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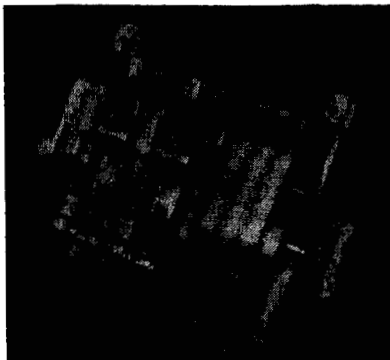
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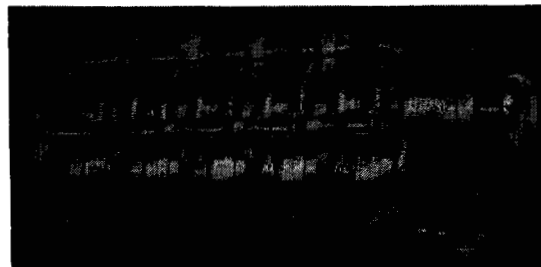
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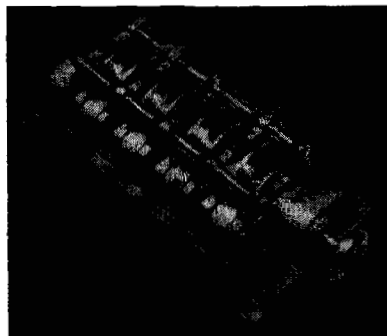
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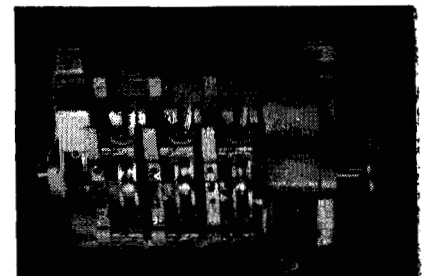
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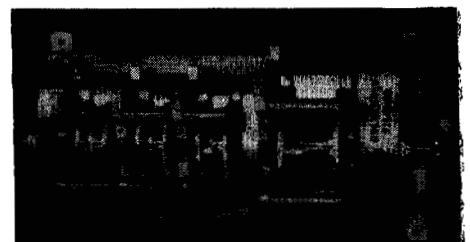
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to a considerable extent available as back issues. Information about the Television Society's requirements for membership and about subscriptions to its *Journal* is available from the Society's present headquarters, 164 Shaftesbury Ave., London W.C.2. — R.H.

New Members

The following members have been added to the Society's rolls since those last published. The designations of grades are the same as those used in the 1956 MEMBERSHIP DIRECTORY.

Active (M) Associate (A) Student (S)

This is the third list of New Members supplementing the April Journal, Part II, Directory.

- Axtmann, Horst**, Manager & Chief Ed., Film-Echo-Weisbaden, Taunusstr 75, Weisbaden, W. Germany. (M)
- Baldwin, Myron Burch**, Manager, Camera Dept., Beckman & Whitley, Inc.: 985 San Carlos Ave., San Carlos, Calif. (M)
- Barth, Gerson**, West Coast Mgr., Ansco. Mail: 2027 N. Serrano Ave., Los Angeles. (A)
- Bason, Kenneth Harold**, Projectionist, Prudential Theatres. Mail: Union Ave., Holbrook, N.Y. (A)
- Blake, Robert C.**, TV Eng., KOSA-TV. Mail: 215 W. 17, Odessa, Tex. (A)
- Bleckman, Morris**, Photo., Cinema Processors. Mail: 5542 S. Ada St., Chicago. (A)
- Brown, Harold R.**, TV Eng., ABC. Mail: 464 C St., Colma, Calif. (A)
- Buist, John Alex**, Sales Mgr., Minnesota Mining & Mfg. Co. of Can., Oxford St., E., London, Ont., Can. (A)

- Burritt, Oscar Chamberlin**, TV Film Consultant, CBC. Mail: 130 Carlton St., Toronto, Ont., Can. (M)
- Caldarone, Caesar J.**, Photo Dealer, 92 Highland Dr., Waterbury, Conn. (A)
- Caldwell, William H.**, Projectionist, WS Butterfield Mich. Theatres, 58 North West, Hillsdale, Mich. (A)
- Carriker, Ronald Charley**, Univ. of Miami. Mail: 447 Brent St., Winston-Salem, N.C. (S)
- Carter, Perry L.**, Projectionist, Mot.-Pic. Operators Union Local 160. Mail: 3719 Ingleside, Cleveland. (A)
- Cavolo, Don**, Projectionist, Loew's Stillman. Mail: 2275 Murray Hill Rd., Cleveland. (A)
- Clarke, Frederick Lindgren**, Industrial Eng., Pathé Labs., Inc. Mail: 950 Dana Ave., Valley Stream, N.Y. (M)
- Coleman, Kenneth J.**, Sales Mgr., Consolidated Film Ind. Mail: 395 Chestnut, Paramus, N.J. (M)
- Conley, Carl E.**, Tech Photo., North American Aviation. Mail: 2637 W. Caldwell St., Compton, Calif. (A)
- Coons, Maynard A.**, Mot.-Pic. Specialist, General Electric Co., 2900 Campbell Ave., Schenectady, N.Y. (A)
- Cooper, Leonard**, Attorney, DuArt Film Labs. Mail: 3770 Dianne St., Bethpage, N.Y. (M)
- Dallwig, George Arthur**, Cinematographer, Northrop Aircraft. Mail: 8005 Rothdell Trail, Hollywood 46. (A)
- Day, George D.**, Field Engineer, General Electric Co. Mail: 416 Molimo Dr., San Francisco 27. (A)
- DeRosa, Patsy**, Film Editor, Telenews Film Corp. Mail: 6408 16 Ave., Brooklyn, N.Y. (M)
- Deubel, William**, Projectionist, Mall Theatre. Mail: 4548 Ranchview, Cleveland. (A)
- Donaldson, Edward**, Projectionist, Loew's Stillman. Mail: 33790 Wooster Rd., Rocky River, Ohio. (A)

- Edwards, Lewis Morgan**, Projectionist, RKO. Mail: 226 Elmore Ave., Trenton, N.J. (A)
- Einfeld, Richard**, Vice Pres. Production, National Picture Corp. Mail: 3310 Mandeville Canyon Rd., Los Angeles 49. (M)
- Endelman, Lincoln L.**, Research Asst., Case Institute of Technology, 10900 Euclid Ave., Cleveland 6. (A)
- Ettenson, David Herbert**, Mot.-Pic. Photo., Free-Lance, 110-56 71 Ave., Forest Hills, N.Y. (M)
- Evraets, Vernon John**, Mech. Eng., Mitchell Camera Corp. Mail: 1336 Allen Ave., Glendale, Calif. (A)
- Fano, Lauge S.**, Chief Elec. Eng., J. A. Maurer, Inc., 37-01 31 St., Long Island City, N.Y. (M)
- Feil, Edward R.**, Film Producer, Free-Lance, 2343 Arleigh Rd., Cleveland 6. (A)
- Fellers, Raymond D.**, Lab. Sales, DuArt Film Labs., Inc., 245 W. 55 St., New York 19. (M)
- Fernandez, Richard J.**, TV Eng. KGO-TV, ABC. Mail: 281 Green St., San Francisco.
- Fortenbaugh, David Edgar**, Sch. Radio Tech. Mail: 167 West End Ave., Newark 6, N.J. (S)
- Gibbs, William Richards**, Agency Film Producer, Young & Rubicam, Inc., 285 Madison Ave., New York. (A)
- Ginsburg, Charles Pauson**, Chief Eng., Ampex Corp. Mail: 640 Orange Ave., Los Altos, Calif. (M)
- Gizowsky, Joseph**, Mot.-Pic. Eng., U.S. Army Signal Corp., Pict. Center. Mail: 124 Kensington Rd., S., West Hempstead, N.Y. (M)
- Grummisch, Lorne H.**, Photo., National Research Council Can. Mail: 184 McArthur Ave., Ottawa 2, Ont., Can. A. (A)
- Hall, Howard J.**, Rochester Inst. Tech. Mail: 148 Troup St., Rochester 8, N.Y. (S)
- Hall, John W.**, Broadcast Eng., ABC. Mail: 244 Sequoia Ave., S. San Francisco. (A)
- Hancock, James Barton**, Chief Eng., McClatchy Broadcasting Co. Mail: 12 Fedora, Fresno, Calif. (M)
- Haney, Edward H.**, Projectionist, Shaker Theatre, Mail: 15308 Benhoff Dr., Maple Heights, Ohio. (A)
- Hayes, Thomas Newell**, Univ. Miami. Mail: 438 Minorca, Coral Gables, Fla. (S)
- Heimberger, Paul W.**, Photo., Colind Photo., 713 Main St., Peoria, Ill. (M)
- Horstkorta, Donald A.**, TV Eng., KGO-TV, ABC. Mail: 1046 Ringwood Ave., Menlo Park, Calif. (A)
- Hudson, William Christoff**, Cambridge Sch. Radio & TV. Mail: 1071 Bergen St., Brooklyn 16, N.Y. (S)
- Jasiukonis, Paul**, Univ. So. Calif. Mail: 1730 S. Hobart Blvd., Los Angeles 6. (S)
- Johns, Sydney Gene**, Univ. Miami. Mail: Box 642, Evansville, Ind. (S)
- Kelley, Fred Clayton**, Projectionist, Villa Theatre. Mail: 7905 Flower Ave., Apt. 2, Takoma Park, Md. (A)
- Kellock, James A.**, Vice-Pres. Operations, Wilding Picture Productions, Inc., 1345 Argyle St., Chicago 40. (M)
- Kjeldsen, Holger Carl**, Film Ed., Byron, Inc. Mail: 12509 Feldon St., Silver Spring, Md. (A)
- Koppel, Walter**, Managing Dir., Real Film Studios. Mail: Schoene Aussicht 12, Hamburg, W. Germany. (M)
- Korb, Leo I.**, Projectionist, Colony Theatre. Mail: 5415 Summit, Lyndhurst, Ohio. (A)
- Lee, Harry**, Projectionist, Loew's Stillman. Mail: 16904 Fisher Rd., Cleveland. (A)
- Leslie, John M., Jr.**, Chief Audio Eng., Ampex Corp. Mail: 2645 Ramona St., Palo Alto, Calif. (M)
- McCaullin, Robert C.**, Sales Promotion, Caterpillar Tractor Co. Mail: 815 Finney St., Chillicothe, Ill. (A)
- Madson, Max Tanner**, Mot.-Pic. Sound Eng., Office of Info. Dept. of Agri. Mail: 2-A Southway, Greenbelt, Md. (A)
- Mitchell, John Donald**, Design Eng., Eastman Kodak Co., Apparatus & Optical Div., 400 Plymouth Ave., Rochester 9, N.Y. (M)

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