

**Testing<sup>1</sup> the Exhaustion of a Fixing Bath**

L. G. Sandys presents his views about how to increase the efficiency of fixing baths and methods of testing in an article, "Efficiency and conservation of fixing baths," published in *The British Journal of Photography*, Vol. 98, pp. 662-3, Dec. 1951. If a yellow precipitate persists upon the addition of a 4% potassium iodide solution to ten parts of the fixer, it is exhausted. This can be confirmed by agitation with a paddle of some kind and if a lasting froth develops it indicates that the bath is spent.

**Temperature Control for Film Processing Solutions**

U.S. Patent #2,584,294 assigned to Remington Rand describes a procedure for isolating the developer and fixer sections of a processing machine by a compartment and circulating heated air from the drying compartment through this chamber.

**Filter-Aid Aid** During the present strike at Johns Manville, users of their Celite filter aids find themselves in a difficult situation. Perhaps the Brown

Company of Berlin, N.H., have a solution to this problem with their "Solka-floc" which they claim (1) prevents "leak through" in the filtration process, (2) enables high flow rates, (3) enables controlled porosity in the filter cake and (4) reduces labor cost by diminishing the number of times filter presses have to be cleaned. The general sales office is at 150 Causeway St., Boston, Mass.

**New Method of Rust Prevention** VPI (Vapor Phase Inhibitor) is chemically known as dicyclohexyl ammonium nitrate and is manufactured commercially by Monsanto Chemical Company. By vaporizing and allowing it to deposit on the product, it is reported to prevent corrosion. It may be used by impregnating paper and lining a drawer with this paper. This will prevent corrosion of anything kept in this drawer. However, its methods of application are numerous. It is nonflammable and will reach areas where usual corrosion preventatives cannot be applied. One gram of VPI provides protection for one cubic foot of metal if properly wrapped to prevent loss of vapor.

## Meetings

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- American Society of Photogrammetry, Annual Meeting, Jan. 14-16, Shoreham Hotel, Washington, D. C.
- American Institute of Electrical Engineers (Symposium on the Science of Music and Its Reproduction — 3d Lecture), Jan. 15, Engineering Societies Bldg., New York, N. Y.
- Society of Motion Picture and Television Engineers, Southwest Subsection Meeting, Jan. 16, Dallas, Tex.
- American Institute of Electrical Engineers, Winter General Meeting, Jan. 19-23, New York, N. Y.
- American Physical Society, Annual Meeting, Jan. 22-24, Cambridge, Mass.
- Institute of Radio Engineers Conference and Electronics Show, 5th Annual Southwestern Conference and Show, Feb. 5-7, San Antonio, Tex.
- American Institute of Electrical Engineers (Symposium on the Science of Music and Its Reproduction — 4th Lecture), Feb. 20, Engineering Societies Bldg., New York, N. Y.
- National Electrical Manufacturers Association, Mar. 9-12, Edgewater Beach Hotel, Chicago, Ill.
- Society of Motion Picture and Television Engineers, Southwest Subsection Meeting, Mar. 16, Fort Worth, Tex.
- Inter-Society Color Council, Annual Meeting, Mar. 18, Hotel Statler, New York, N. Y.
- Optical Society of America, Mar. 19-21, Hotel Statler, New York, N. Y.
- American Physical Society, Joint Meeting with APS Southeastern Section, Mar. 26-28, Duke University, Durham, N. C.

American Physical Society, Apr. 30-May 2, Washington, D.C.  
Acoustical Society of America, May 7-9, Hotel Warwick, Philadelphia, Pa.  
Society of Motion Picture and Television Engineers, Southwest Subsection Meeting,  
May 20, Dallas, Tex.  
American Physical Society, June 18-20, Rochester, N.Y.  
American Institute of Electrical Engineers, Summer General Meeting, June 29-July 3,  
Atlantic City, N.J.  
Biological Photographic Association, 23d Annual Meeting, Aug. 31-Sept. 3, Hotel Statler,  
Los Angeles, Calif.  
The Royal Photographic Society's Centenary, International Conference on the Science  
and Applications of Photography, Sept. 19-25, London, England  
Theatre Equipment and Supply Manufacturers' Association Convention (in conjunction  
with Theatre Equipment Dealers' Association and Theatre Owners of America),  
Oct. 31-Nov. 4, Conrad Hilton Hotel, Chicago, Ill.  
Theatre Owners of America, Annual Convention and Trade Show, Nov. 1-5, Chicago, Ill.  
National Electrical Manufacturers Association, Nov. 9-12, Haddon Hall Hotel, Atlantic  
City, N.J.

## Employment Service

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### Positions Wanted

**Audio-Visual School of Education Graduate:** M.A., Audio-Visual Education, New York University. Sound background in personnel and contact work, attractive, single, personable. Prefer position New York or New Jersey area. Spent 3 years abroad, civilian, Special Services Director. Miss Fredericka Appleby, 810 Broadway, Newark, N.J. HUmboldt 5-4582.

**TV Producer-Director:** Formerly Chief of Production in Army's first mobile TV system, experience in writing-directing high-speed, low-cost instructional productions; TV producer-director, KRON-TV San Francisco, five shows weekly. Desire connection in educational TV, preferably employing kinescope technique; married; prefer West Coast, but willing to travel; résumé, script samples, pictures of work — on request. Robert Lownsbery, 1116 E. Claremont St., Pasadena 6, Calif.

**Research, field engineering,** manufacturing opportunity for B.S. Electrical Engineering candidate, Jan. 1953; Scholarship student, M.I.T.; studied in Germany, 1945-1950. Languages: German, Polish, Russian and English. Some radio shop experience; also M.I.T. Library and Engineering Dept. Single, no dependents; Military Status, 5A (over 26). Prefer

location in East. Joseph Liebermann, 513 Beacon St., Boston, Mass.

### Position Available

**Wanted: Young engineer,** mechanical or electrical deg; with liking for fine machinery and creating it, some experience in mechanical design and some knowledge of optics or electronics; for work on development of new products; applications held in full confidence. Send complete résumé to Sherman Fairchild and Assoc., Rm 4628, 30 Rockefeller Plaza, New York, Attn. Mr. Fairbanks.

**Appearance Technology** may not be a new term but it is being pushed into the light by Richard S. Hunter who announces that he has formed Hunter Associates Laboratory, 5421 Brier Ridge Rd., Falls Church, Va., a consulting group devoted exclusively to appearance and related optical properties of materials — color, diffuse reflectance, gloss or luster, turbidity, haze, opacity and the like. Mr. Hunter, who has left the position of Chief Optical Engineer with the Henry A. Gardner Laboratory at Bethesda, Md., reports that his organization is equipped to test materials for either routine or special appearance properties and to design appearance-testing instruments.