

# Scientific Meetings

## Color Mixture Functions To Be Modified

A change in the basis for evaluating light and color is in the offing as a result of the reports made at the Zurich sessions of the International Commission on Illumination (CIE), 13-22 June. The color mixture functions that have defined the standard observer for colorimetry since 1931 and were based on the use of a small field (2 deg) will probably be superseded by new functions obtained with a field subtending an angle of 10 deg. W. S. Stiles (National Physical Laboratory, England) presented data obtained with the large field to supplement the secretariat report of D. B. Judd (National Bureau of Standards, U.S.A.). The 1931  $\bar{y}_\lambda$  function, which is exactly the relative photopic luminous efficiency curve adopted by the CIE in 1924 and has been used internationally for the photometry of sources differing in spectral characteristics, will probably be changed for colorimetric purposes. This will leave for decision the question of whether there should be adopted for photometry identically the same function or a curve as similar as possible to the currently used curve, so that the photometric values assigned to various types of lamps, such as vacuum and gas-filled incandescent lamps and electric-discharge lamps, will not have to be changed importantly.

Based on an analysis of the signal-light problem in a secretariat report presented by F. C. Breckenridge (National Bureau of Standards, U.S.A.), recommendations on 3-color, 4-color, 5-color, and 6-color signal systems were adopted as being applicable to signal lights used for all forms of transportation. Plans were made to acquire data on the recognition and discrimination of signal lights in the blue-green-white-purple region and also on the recognition of surface colors and the effect on them of age and dirt.

At the Zurich meeting, work that has been in progress on the development of a comprehensive International Lighting Vocabulary in English, French, and German was brought to a practical climax. It is now expected that the vocabulary containing the definitions of more than 500 terms in the three languages will be available in printed form within a year.

Although the working group of experts on automobile lighting was not able to arrive at an agreement on the universal use of the same type of headlamps, progress was made toward the objective of attaining mechanical interchangeability, and there still exists the possibility of international standardization of head-lights as well as of signal lights, reflex reflectors, and tail lamps.

At the Zurich sessions of the CIE 35 secretariat reports and 34 papers were presented.

L. E. Barbrow, National Bureau of Standards, Washington 25, D.C. is the secretary of the U.S. National Committee of CIE and requests for more details of the Zurich sessions should be addressed to him.

L. E. BARBROW

## Meeting Notes

■ The 6th annual National Noise Abatement symposium will be held 20-21 Oct. at the Armour Research Foundation of Illinois Institute of Technology, Chicago. Robert W. Benson, supervisor in the foundation's physics research department, has been appointed chairman of the symposium, which is sponsored by the foundation and several other organizations. The purpose of the meeting is to bring together persons interested in the effects, measurement, and control of noise.

■ During the 10th annual Instrument-Automation Conference and Exhibit, which will take place in Los Angeles, 10-12 Sept., the Instrument Society of America will present its 1955 Maintenance Clinic. Twenty-four subjects will be covered. Every student will have his choice of one of the three groups of eight subjects each.

The material will be presented by personnel from the training departments of various factories. This program will be of benefit to men charged with responsibility for maintaining industrial process- and test-control equipment.

In each 2-hr period a particular type of instrument will be described, and its operation will be demonstrated. Suggestions will then be made on the methods of locating causes of improper operation. The student will also be instructed in the

adjustments that must be made to restore the instrument to operation. Following this instruction, the students will be allowed to apply their newly acquired knowledge by servicing instruments that have been deliberately disabled.

The clinic will be held in Founders Hall of the University of Southern California in Los Angeles. Registration fee is \$5 for members of organizations participating in the ISA conference (ASME, AIEE, IRE, and SCMA). The fee for others is \$7.50. Certificates will be presented at the closing sessions to all who complete the schedule. Schedules will be provided on request. To enroll, send registration fee to: ISA Instrument Maintenance Clinic, 1315 Allegheny Ave., Pittsburgh 33, Pa.

■ Arrangements are nearing completion for the American Heart Association's 31st annual meeting and 28th scientific session in New Orleans, 22-28 Oct. Nearly 350 papers have been submitted for presentation at the scientific sessions; this is more than twice the number received by the association for any previous sessions.

Although time will not permit presentation of more than one-quarter to one-third of these papers at New Orleans, arrangements have been made to publish abstracts of most of the papers as part of the proceedings of the scientific sessions. These proceedings will be included in the October issue of *Circulation*, the association's monthly journal.

The scientific sessions and the programs of the Council on Community Service and Education and of the Council on Rheumatic Fever and Congenital Heart Disease will be conducted at the New Orleans Municipal Auditorium, 22-24 Oct. Other events, including the annual meeting of the assembly, AHA governing body, will be held at the Jung Hotel.

The scientific program will consist of general morning sessions and concurrent afternoon sessions of specialized interest to members of the various sections and councils of the association, including the sections on clinical cardiology, cardiovascular surgery, circulation and basic science (jointly), and high blood pressure.

In addition, there will be a program on the prevention of rheumatic fever and the problems of cardiac children in the schools. This will be under the joint auspices of the Council on Rheumatic Fever and Congenital Heart Disease and the Council on Community Service and Education. The community service council will also offer a program encompassing rehabilitation and the relationship between body weight and heart disease.

Two special lectures have been scheduled: the Lewis A. Conner memorial

lecture on 22 Oct., and the George Brown memorial lecture on 23 Oct. The Conner lecture will be presented by George A. Perera, associate professor of medicine at Columbia University College of Physicians and Surgeons, who will speak on "Primary hypertension." George Burch, Henderson professor of medicine at Tulane University School of Medicine, will give the Brown lecture on the topic "Digital rheo-plethysmography."

Attendance at the scientific sessions is open to nonmembers for a registration fee. Medical students, interns, residents, research workers, and nurses will be welcome at the sessions without charge. Registration forms, which contain provisions for reserving hotel accommodations, can be obtained from local heart associations and from the American Heart Association, 44 E. 23 St., New York 10.

■ The first Symposium on Gas Dynamics, sponsored by the American Rocket Society and Northwestern University, will take place in Evanston, Ill., 22-24 Oct. The theme of the meeting will be aerothermochemistry. The papers to be presented will cover engineering research in this field, with extension to fluid dynamics, chemical kinetics, and thermodynamics.

The contributions are unclassified and should be of interest to all concerned with basic problems allied to rocket and jet propulsion as well as to high-speed combustion in general. The symposium was organized with the cooperation of the Office of Scientific Research, Air Research and Development Command.

Abstracts of the papers to be presented will be available at the time of registration. It is planned that the papers and pertinent discussions will be brought together after the symposium in a volume of proceedings. Correspondence should be addressed to Gas Dynamics Symposium, Northwestern Technological Institute, Evanston, Ill.

■ An international symposium on arteriosclerosis will be held in Minneapolis, Minn., 7-9 Sept., under the joint sponsorship of the University of Minnesota and the Minnesota Heart Association, an affiliate of the American Heart Association. Ancel Keys will serve as chairman of the symposium in which medical scientists from nine states, the District of Columbia, Canada, Germany, Italy, Sweden, the Union of South Africa, and the United Kingdom will participate.

The first morning of the symposium will be devoted to presentations on the research, public health, medical education, and insurance aspects of arteriosclerosis, as well as on the role of the American Heart Association and its affil-

iates and of the National Heart Institute in the campaign against arteriosclerosis. The symposium will then turn to specific studies, with more than 30 specialized papers scheduled for presentation.

E. Cowles Andrus of Baltimore, Md., and Irvine H. Page of Cleveland, Ohio, president and president-elect, respectively, of the AHA, will be participants, as will Louis N. Katz, of Chicago, and Paul D. White of Boston, past presidents of the association.

■ T. Dale Stewart, curator of physical anthropology at the Smithsonian Institution, and Mildred Trotter of Washington University, St. Louis, recently issued, with the assistance of a grant from the Wenner-Gren Foundation for Anthropological Research, a compilation of the major research papers published in the United States on the estimation of age from the skeleton. This publication will serve as a starting point for a seminar on human identification, 7-9 Sept., sponsored by the Smithsonian Institution, in which many of this country's leading physical anthropologists will take part.

However, skeletal determination of age will be only one of the subjects for discussion. Attention will also be given to identification problems arising from decomposition and disintegration of the body. Sometimes age, sex, race, stature, and body build must be estimated from poorly preserved or incomplete human remains.

Some identification data is highly reliable, some unreliable. Fingerprinting is fairly reliable, if previous fingerprint records exist for comparison. The claim that no two persons ever have precisely the same fingerprint pattern is probably justified, according to Stewart, but there are numerous other individual differences for which the same claim can be made: for example, the pattern of air sinuses in the mastoid bones is never precisely the same in two persons.

Both in Europe and the United States identification criteria have been developed by physical anthropologists, chiefly because of their interest in ancient and primitive peoples. But the same criteria can be applied just as well, and with considerable assurance, to man of today.

■ Plans for the North Central Conference on Biology Teaching at the University of Michigan's Biological Station, 19-30 Aug., are now completed, according to Richard L. Weaver, director of the conference. The five scientists who will guide the discussions on assigned topics are John S. Karling of Purdue University, "Plants and man"; Samuel T. Dana of the University of Michigan, "Conservation"; H. O. Goodman, Michigan State University, "Human inheritance"; Harry Fuller, University of Illinois,

"Food supply of man"; and Robert Bowman of the University of Michigan, "Health and disease."

Ninety delegates have been selected for the conference from nominations by the steering committee, officers of NABT, and directors of national scientific organizations. The conference is supported by a grant from the National Science Foundation.

In addition to Weaver, the conference staff includes John Breukelman, who is chairman of the steering committee, and Richard Armacost, Paul Klinge, and Alfred Stockard. A few copies are still available of the report of the first conference, which was held at the University of Florida last summer. These can be obtained from Richard Weaver, Box 2073, Ann Arbor, Mich.

*Erratum:* The 10th International Congress of Entomology will take place in Montreal, 17-25 Aug. 1956. The preliminary announcement that appeared in the 29 July issue failed to mention the year; *Science* regrets the omission.

## Forthcoming Events

### September

12-14. Soil Conservation Soc. of America, Green Lake, Wis. (H. W. Pritchard, Paramount Bldg., Des Moines, Ia.)

12-15. International College of Surgeons, 20th annual, Philadelphia, Pa. (K. A. Meyer, 1516 Lake Shore Dr., Chicago 10, Ill.)

12-16. Illuminating Engineering Soc., annual, Cleveland, Ohio. (A. D. Hinckley, 1860 Broadway, New York 23.)

12-16. Instrument Soc. of America, 10th annual, Los Angeles, Calif. (Fred Tabery, 3443 S. Hill St., Los Angeles.)

13-15. American Meteorological Soc., Asbury Park, N.J. (K. C. Spengler, 3 Joy St., Boston 8, Mass.)

14-16. American Assoc. of Clinical Chemists, 7th annual, Minneapolis, Minn. (M. M. Friedman, Lebanon Hospital, New York 57.)

14-16. Assoc. for Computing Machinery, annual, Philadelphia, Pa. (J. P. Nash, Digital Computer Lab., Univ. of Illinois, Urbana.)

14-16. IRE Professional Group on Nuclear Science, 2nd annual, Oak Ridge, Tenn. (H. E. Walchli, Oak Ridge National Lab., P.O. Box P, Y-12, Oak Ridge.)

15-16. Corrosion Symposium, Montreal, Canada. (Chemical Inst. of Canada, 18 Rideau St., Ottawa 2.)

15-17. International Soc. for the Study of Biological Rhythm, 5th conf., Stockholm, Sweden. (T. Petré, Karolinska Institutet, Stockholm 60.)

16-17. American Psychiatric Assoc. Midwest Regional Research Conf., Galesburg, Ill. (L. H. Rudy, Galesburg State Research Hospital, Galesburg.)

(Continued on page 296)

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(Continued from page 294)

16-17. Calorimetry Conf., 10th annual, Minneapolis, Minn. (E. F. Westrum, Jr., Dept. of Chemistry, Univ. of Michigan, Ann Arbor.)

17-21. American College of Hospital Administrators, 21st annual, Atlantic City, N.J. (D. Conley, ACHA, 620 N. Michigan Ave., Chicago 11, Ill.)

19-23. Fédération Internationale Pharmaceutique, 16th general assembly, London, Eng. (D. F. Lewis, Secy., Organizing Committee, FIP, 17 Bloomsbury Sq., London W.C.1.)

20-23. American Roentgen Ray Soc., Chicago, Ill. (B. R. Young, Germantown Hospital, Philadelphia 44, Pa.)

20-26. World Medical Assoc., 2nd congress, Vienna, Austria. (L. H. Bauer, 345 E. 46 St., New York 17.)

22-23. Symposium on the Less Common Metals, London, Eng. (W. J. Felton, Institution of Mining and Metallurgy, Salisbury House, London, E.C.2.)

23-24. Symposium on the Biologic Effects of Microwaves, Rochester, Minn. (J. F. Herrick, Section of Biophysics, Mayo Clinic, Rochester.)

25-28. American Inst. of Chemical Engineers, Lake Placid, N.Y. (F. J. Van Antwerpen, AIChE, 25 W. 45 St., New York.)

26-29. Assoc. of Iron and Steel Engineers, annual, Chicago, Ill. (Secretary, AISE, Empire Bldg., Pittsburgh 22, Pa.)

26-30. International Dairy Federation,

annual, Bonn, Germany. (IDE, 154, rue Belliard, Brussels, Belgium.)

26-30. Atomic Industrial Forum and Trade Fair, Washington, D.C. (C. Robbins, 260 Madison Ave., New York 16.)

26-30. Colloquium on Deformation and Flow of Solids, Madrid, Spain. (H. L. Dryden, National Advisory Comm. for Aeronautics, Washington 25.)

26-1. Endocrine Soc., 7th annual postgraduate assembly, Indianapolis, Ind. (Postgraduate Office, Indiana Univ. School of Medicine, Indianapolis 7.)

27-1. International Symposium on Analogue Computers, Brussels, Belgium. (P. Germain, Institut de Physique Appliquée, Université Libre de Bruxelles, Bruxelles.)

28-29. Industrial Electronics Conf., Detroit, Mich. (G. Ferrara, 8106 W. Nine Mile Rd., Oak Park 37, Mich.)

28-30. Mississippi Valley Medical Soc., St. Louis, Mo. (H. Swanberg, 209-224 W.C.U. Bldg., Quincy, Ill.)

29-1. International Soc. of Vegetative Neurology, 6th annual symposium, Strasbourg, France. (R. Fontaine, Univ. of Strasbourg Faculty of Medicine, Strasbourg.)

30. American Medical Writers' Assoc., St. Louis, Mo. (H. Swanberg, 209-224 W.C.U. Bldg., Quincy, Ill.)

30-1. Council for International Organizations of Medical Sciences, 3rd general, Paris, France. (J. F. Delafresnaye, CIOMS, 19, avenue Kléber, Paris 16°.)

30-2. Indiana Geological Field Conf., 8th, Clifty Falls State Park, Ind. (C. F.

Deiss, Dept. of Geology, Indiana Univ., Bloomington.)

## October

1-9. International Food Fair, Cologne, Germany. (International Trade Fair Staff, USDA, Washington 25.)

3-6. Soc. of Exploration Geophysicists, 25th annual, Denver, Colo. (C. Campbell, SEG, 624 S. Cheyenne, Tulsa, Okla.)

3-7. American Inst. of Electrical Engineers, fall general, Chicago, Ill. (N. S. Hibshem, 33 W. 39 St., New York 18.)

4-6. American Meteorological Soc., Stillwater, Okla. (K. C. Spengler, 3 Joy St., Boston 8, Mass.)

4-6. International Assoc. of Milk and Food Sanitarians, Augusta, Ga. (H. L. Thomasson, IAMFS, Box 437, Shelbyville, Ind.)

6-8. Optical Soc. of America, Pittsburgh, Pa. (A. C. Hardy, Room 8-203, Massachusetts Inst. of Technology, Cambridge 39.)

6-8. Soc. of Industrial Designers, 11th annual, Washington, D.C. (S. G. Swing, SID, 48 E. 49th St., New York 17.)

9-13. Electrochemical Soc., Pittsburgh, Pa. (H. B. Linford, 216 W. 102 St., New York 25.)

9-14. American Acad. of Ophthalmology and Otolaryngology, Chicago, Ill. (W. L. Benedict, 100 First Avenue Bldg., Rochester, Minn.)

(See issue of 15 July  
for more comprehensive listings.)