

News and Notes

Instrument Conference and Exhibit

THE seventh National Instrument Conference and Exhibit, sponsored by the Instrument Society of America, was held in Cleveland the week of Sept. 8-12. Nearly 100 technical papers dealing with measurements, instruments, or automatic control were presented in 40 sessions arranged by the Instrument Society and other technical societies cooperating in the conference. The exhibits of instruments, components, and control devices filled both the Arena and the main Exhibition Hall of the Cleveland Municipal Auditorium, with a total of approximately 30,000 square feet of exhibit space. There were nearly 200 commercial exhibitors, and a few booths displayed instrument developments of government laboratories. More than 9000 engineers, scientists, manufacturers, and technicians were registered during the week.

A noticeable feature of this year's conference was the much wider coverage of various phases of instrumentation, resulting from the activity of the newly formed technical committees. The older committees of the society had strong programs, as usual, the sessions on Instrumentation for Production Processes having the most papers and the largest average attendance, reflecting the interest of production engineers in automatic controls. Other sessions, reflecting industrial instrumentation, were devoted to instruments for inspection and gauging, analysis instrumentation, and instruments for testing. Research instrumentation interests were covered by sessions on medical, aeronautical, geophysical, meteorological, and nuclear radiation instrumentation. The chairman of the first session on Instrumentation for Biophysics and Medicine was Otto Glasser, editor of the monumental two-volume work, *Medical Physics*, much of which is devoted to medical instrumentation.

The American Society of Mechanical Engineers sponsored a symposium on high pressure measurements, with an introductory lecture by Percy Bridgman, who received the Nobel prize for his development of techniques for attaining and measuring extremely high pressures. The Society of Electrical Engineers, the Institute of Radio Engineers, and the American Institute of Physics also arranged sessions of papers dealing with instruments and measurements.

Preprints of many of the papers were available, and the complete volume of the "Conference Proceedings" will be published within a few months. Prospective authors are urged to submit titles and abstracts for next year's conference as soon as possible, to permit adequate time for editorial review by the appropriate committees, and for preprinting.

In line with the policy of the Instrument Society, to attract instrument technicians as well as professional engineers and research scientists, an Instrument Mechanics' Maintenance Clinic was held as an educational feature in advance of the conference pro-

gram. The clinic gave an opportunity for 400 instrument mechanics to get 20 hours of instruction on trouble shooting, maintenance and repair, and installation of various types of instruments, and enjoy a session on automatic control and a showing of the ISA color film *Principles of Automatic Control*. Facilities for the clinic were provided by the Case Institute of Technology. Another educational feature was a Clinic on Analysis Instrumentation held for advanced technicians or professional personnel. This clinic covered electrical, optical, and mechanical design features, as well as application techniques for infrared analyzers, flame spectrophotometers, mass spectrometers, thermal conductivity gas analyzers, combustible gas analyzers, x-ray spectrometers, and light-scattering apparatus.

Following a luncheon for the exhibitors, several eminent editorial writers participated in a panel discussion on Frontiers of Instrumentation. David Dietz, science editor of the Scripps-Howard papers, served as moderator. Lawrence P. Lessing, of *Fortune*; Gerard Piel, of *Scientific American*; H. L. Waddell, of *Factory Management and Maintenance*; and Sydney Self, of the *Wall Street Journal*, discussed the trends and potentialities of instrumentation for our civilization. From these discussions emerged an interesting composite definition of instrumentation as the science and industry of measurement, control, and computation.

These speakers foresee continued great progress in applications of automatic control to industry and particularly to the information-handling aspects of industry and banking, accounting, and merchandising. One speaker suggested that the instrument industry should financially support the educational work of the Instrument Society to ensure more rapid awareness of these potentialities in industry and science. It was also pointed out that the instrument industry should further educate itself as to the unexplored potentialities of automatic control and take a bolder and more imaginative approach in devising and perfecting instruments for the use of industry and science in advance of demand by the users.

The wide range of products exhibited included instruments, components, control systems, regulators, valves, amplifiers, and special devices for control of measurement in specific industrial or scientific applications. Most of the products were for industrial use, although many devices exhibited were for research laboratory use, and many new products are in the transition stage between the research and the industrial model. There were three different firms exhibiting electromagnetic flowmeters—devices in which there are no moving parts, no obstruction to the flow, the flow being measured by the emf generated by passage of the fluid through a magnetic field. The principle dates back to Faraday, but the practical application was

first made ten or fifteen years ago for measurement of blood in arteries, and it is now being used in industry for measuring flow of all sorts of liquids, particularly those that are corrosive or explosive. Even hydrocarbon fuels may be metered, when treated with some additive to increase the conduction.

Spectrophotometers and infrared analyzers were exhibited, and other instruments utilizing optical, chemical, thermal, electrochemical, and gravimetric systems. Several new types of analog computers were shown, and there was an increased number of automatic data-reduction equipment in evidence. One of the most rapidly evolving phases of instrumentation, it has developed in response to the problem of handling the large mass of measurements that can now be taken so rapidly with high-speed recording methods. Even viscosity is being measured by a new technique. An ultrasonic device measures the damping of an immersed metal strip which is set in vibration by magnetostriction. This device gives instantaneous readings in a small volume, it can be totally enclosed, and is made of corrosion-resistant material, so that it can be used to control product quality in continuous process plants.

Only the Navy Department, represented by the Naval Research Laboratory and the Naval Ordnance Laboratory, and the National Bureau of Standards had technical exhibits. The Instrument Society makes space available at no cost to government and academic exhibitors, and if a larger number of such exhibits could be shown, it would add much of interest for engineers and scientists attending the meetings, and would attract a greater number of research people.

The eighth National Instrument Conference and Exhibit will be held at the Sherman Hotel, Chicago, in September 1953. In 1954 the Instrument Society will sponsor an International Instrument Congress and Exposition at Philadelphia, Sept. 14-24, and invites other technical societies to hold joint meetings on measurements in their special fields at that time. It is expected that many foreign exhibitors, as well as foreign users of instruments, will attend the 1954 ten-day conference. Successive conferences will be held in Detroit in 1955, Los Angeles in 1956, and New York in 1957.

Newly elected officers of the society for 1953 are: president, Porter Hart, Dow Chemical Company, Freeport, Texas; vice-presidents, D. M. Boyd, Universal Oil Products Company, Chicago; R. T. Sheen, Milton Roy Company, Philadelphia; Warren H. Brand, Carbide & Carbon Chemical Company, Oak Ridge, Tenn; and J. M. Ribble, Phillips Petroleum Company, Bartlesville, Okla.; treasurer, J. T. Vollbrecht, Energy Control Company, New York; and secretary, W. A. Wildhack.

Exhibit manager for the society is Richard Rimbach, and the society manager is P. V. Jones, Jr. Society headquarters are at 1319 Allegheny Ave., Pittsburgh, Pa.

W. A. WILDHACK

National Bureau of Standards

Scientists in the News

Ernest Anderson, after 29 years of service as head of the Department of Chemistry at the University of Arizona, has retired. He was succeeded by **Lathrop E. Roberts**, professor of chemistry in the same department.

Hurst Robins Anderson, president of Hamline University in St. Paul, has been elected president of The American University, Washington, D. C. Professor of English and speech at Allegheny College, Dr. Anderson in 1943 was selected as president of Centenary Junior College in New Jersey. He remained at Centenary until 1948, when he was elected President of Hamline.

L. F. Bates, of the Department of Physics, University of Nottingham, England, and **C. J. Gorter**, physicist at Kamerlingh Onnes Laboratory, University of Leiden, presented special seminars at Iowa State College under the joint sponsorship of the Iowa State College Division of Science and the Institute for Atomic Research.

P. V. Cardon has been appointed consultant in agriculture to the Southern Regional Education Board. Dr. Cardon, until his retirement last year, was administrator of the U. S. Department of Agriculture's research program. At present he is director of the Department of Agriculture Graduate School. In his new assignment Dr. Cardon will work with Southern colleges and universities and experiment station directors of the Southern region.

James V. Dell'Aquila, chemical engineering student at Clarkson College of Technology, Potsdam, N. Y., has received the second Junior Horatio Alger Scholarship of the American Schools and Colleges Association. The scholarship for the honor student is designed to make the traditional "rags to riches" process a little less difficult.

Gaston Dupouy, director of the Centre National de la Recherche Scientifique, Paris, is visiting the U. S. at the invitation of the Department of State under the Point 4 program. Dr. Dupouy will remain in this country until Oct. 10. During his stay he will tour outstanding American research establishments in all phases of scientific research to obtain firsthand acquaintance with the progress and accomplishments of science in this country.

Ernst Horber, of Zurich, will do research in entomology at Kansas State College on the development of cereal crop varieties resistant to stem maggots, Hessian flies, and other insects and mites. He also will observe and study the influence of crop rotation on insect populations. He will attend Kansas State on a grant of the International Institute of Education, made through the U. S. State Department.

Amos G. Horney, of the Air Research and Development Command's Office of Scientific Research,

has received an appointment as Air Force member of the National Research Council's Chemistry and Chemical Technology Division. Dr. Horney, chief of the Office of Scientific Research's Chemistry Division, succeeds **Edward P. Mechling**, Commanding General of ARDC's Air Force Armament Center, Eglin AFB, Fla., whose three-year term expired recently. Dr. Horney's term will expire June 30, 1955.

R. A. Humphrey has been appointed to the technical staff as engineer, Research and Development, of the Mycalex Corporation of America, Clifton, N. J. Mr. Humphrey was formerly associated with Owens-Corning Fibreglas Corporation and more recently with the Electrotechnical Laboratory of the Bureau of Mines at Norris, Tenn. At the Bureau of Mines he was in charge of pilot plant production of synthetic mica.

Henry H. Kessler, orthopedic surgeon and medical director of Kessler Institute for Rehabilitation, West Orange, N. J., is the first recipient of newly established Physician's Award, an illuminated scroll given for distinguished contribution to welfare and employment of the physically handicapped. The award will be made at Chicago in January at the Congress of Industrial Medicine.

D. L. Klingman has become regional coordinator for the Weed Research Program of the Bureau of Plant Industry, Soils, and Agricultural Engineering activities in the North Central states. On Jan. 1, he will move to the regional office at the University of Missouri. He replaces **L. M. Stahler**, who has become associated with the research program of the Pacific Borax Company in Los Angeles. **Richard Behrens** has also joined the Division of Weed Investigations of the Bureau and is engaged in studies in brush control in cooperation with the Texas Agricultural Experiment Station. He is located at College Station.

William Edward Leahy, president of Columbus University, Washington, D. C., and Selective Service director for the District of Columbia, has been appointed a member of the U. S. Atomic Energy Commission's Personnel Security Review Board, succeeding the late **Bruce D. Smith**, who resigned from the board last February. The three-member Personnel Security Review Board was created in 1949, to review and make recommendations concerning specific personnel security cases that may arise under the commission's administrative review procedure. It also advises the commission on policy matters regarding personnel security. Its chairman is **Ganson Purcell**, and the other member is **Arthur S. Flemming**.

Chester A. Lindstrom, chief of Motion Picture Service of the U. S. Department of Agriculture, has retired after more than 42 years of government service. Successor to Mr. Lindstrom will be **Walter K. Scott**, who has been chief of production in Motion Picture Service since 1946. Appointed chief of Motion

Picture Service in 1944, after serving several years as associate chief, Mr. Lindstrom supervised the production of more than a thousand educational agricultural films.

H. H. Magdsick, illuminating engineer with the General Electric Company, Nela Park, Cleveland, has received the 1952 IES Gold Medal, awarded annually for the purpose of giving recognition to meritorious achievement which has conspicuously furthered the profession, art, or knowledge of illuminating engineering.

Carl A. Menzel, former manager of the Housing and Cement Products Bureau, Portland Cement Association, has been appointed consultant on concrete technical problems. Succeeding Mr. Menzel as manager of the bureau is **S. H. Westby**, assistant manager since 1945. In 1951, Mr. Menzel won the annual Award of the Concrete Reinforcing Steel Institute; he has also received the Dudley Medal of the American Society for Testing Materials and the Wason Medal of the American Concrete Institute, for outstanding development work in the concrete field.

Jean Oliver, professor of pathology at the Medical College of the State University Medical Center in Brooklyn, is to be awarded the William Wood Gerhard Medal for "Zeal in Research." The award will be made at the Nov. 13 meeting of the Pathological Society of Philadelphia. The medal was established in 1925 by the society in honor of William Wood Gerhard, its first president in 1838.

H. S. Osborne, chief engineer of the American Telephone and Telegraph Company, who retired in August, has been elected president of the International Electrotechnical Commission. The commission, which has been holding council and technical committee meetings in Scheveningen since early this month, is the international coordinating body in the electrotechnical standards field. Dr. Osborne is president of the U. S. National Committee, an affiliate of the Electrical Standards Committee of the American Standards Association.

W. I. Shaw, plant superintendent of Central Paint & Varnish Works, Brooklyn, has been made general manager, coordinator of production, Technical Research and Development.

Charles B. Spaulding, formerly professor of sociology and economics at Whittier College, has been named associate professor of sociology at Santa Barbara College of the University of California, and the position of registrar has been filled by **Paul W. Wright**, who was director of student personnel and head of the education department at Westmont College.

E. S. Stateler, food consultant for the Wahl-Henius Institute, Chicago, has been appointed professorial lecturer in food engineering at Illinois Institute of Technology. Mr. Stateler joined the Wahl-Henius In-

stitute, a consulting and research facility for the brewing and baking industries, in 1951.

G. P. Putnam's Sons have appointed **Norman Taylor**, formerly on the staff of the New York Botanical Garden and editor of *Taylor's Encyclopedia of Gardening*, chief adviser in the nature field. He will undertake the revision of certain titles in Putnam's "Nature Field Book Series," and will also assist in arrangements for additions to this series and to the Putnam's "Beginner's Guides to Nature Series."

Gerald S. Wellman has been appointed vice president in charge of development at Case Institute of Technology.

Helen L. Witmer has been appointed director of the division of research of the Children's Bureau. Miss Witmer was director of fact-finding for the Midcentury Conference on Children and Youth, held in 1950, and has since served as research consultant on the Children's Bureau staff.

Education

The following have joined the staff of the Chemistry Department of the **University of Arkansas**: **Jacob Sacks**, of Brookhaven National Laboratory, associate professor of biochemistry; and **Thomas C. Hoering**, of Washington University, assistant professor of chemistry. **Berol L. Robinson**, of Johns Hopkins, has joined the Physics Department as assistant professor.

Cornell University plans to televise experiments in freshman and sophomore physics courses beginning this fall. A midget television camera, developed by RCA for industrial and related uses, has been lent to the university, which has provided two 21-inch viewers. Staff members who will use the equipment are **Guy E. Grantham**, **F. L. Moore, Jr.**, **Herbert F. Newhall**, and **D. H. Tomboulion**.

The fourth **Edison Foundation Institute** will be held Nov. 24-25 at Glenmont, Thomas Edison's home in Llewellyn Park, West Orange, N. J. It will be sponsored by the foundation and the New Jersey State Department of Education and will explore ways that industry and education can work together at the elementary and secondary school levels to enable students to obtain a basic understanding of our economy, the fundamental role played by engineering and science in that economy, and the need to encourage more high school students to choose careers in such fields. Fifty educators and civic leaders will participate.

The **Institute for Fluid Mechanics and Applied Mathematics** at the University of Maryland will hold its first public lectures Oct. 15-16, when **D. C. Spencer**, of Princeton University, will speak on Green's operators. On Nov. 19-20, **Walker Bleakney**, of Princeton, will discuss shock waves in gases. Weekly seminars which began Sept. 22 are being held on Wednesdays

and Thursdays. Colloquia on applied mathematics and mechanics will be held each Friday. For full information concerning the program, including research positions and research fellowships, address the institute at College Park, Md.

Washington University has appointed **George E. Pake** chairman of the Department of Physics, succeeding **Arthur L. Hughes**, who will continue as professor of physics. **Eugene Feenberg** will be on a year's leave of absence as visiting professor of physics at Princeton, and **Robert N. Varney** and **Robert D. Sard** have returned from leaves of absence. **Henry Primakoff** and **Dr. Sard** have been appointed full professors, **Dr. Pake** has been promoted to associate professor, and **Martin Annis** and **Jonathan Townsend** have been made assistant professors.

Yale University's School of Engineering will celebrate its centennial Oct. 24-25, with lectures, special exhibits, and a formal dinner. Two Silliman lectures will be given, one by **C. Guy Suits**, of General Electric, on "The Engineer and the Fundamental Sciences," and one by **John R. Dunning**, of Columbia University, on "The Engineer Comes of Age." At the dinner meeting, **E. Carlisle Hunter** will preside, and **A. Whitney Griswold** and **T. Keith Glennan** will speak.

Grants and Fellowships

Applications for awards under the **Fulbright Act** for research in Finland, the Federal Republic of Germany, Greece, and Iraq must be filed before Oct. 15 for work in 1953-54. Applications for lecture-ships in Finland and Germany will not be accepted until the spring of 1953, however. For full information and application forms, address Executive Secretary, Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Ave., Washington 25, D. C.

The **Social Science Research Council**, 726 Jackson Pl., N.W., Washington 6, D. C., has funds available for research training fellowships, area research training fellowships, travel grants for area research, grants-in-aid of research, and faculty research fellowships. Closing date for applications will be Jan. 5.

The **Steam Locomotive Research Institute, Inc.**, has been dissolved, and has presented \$40,000 of its funds to the Stevens Institute of Technology to establish scholarships for the sons of railroad men to enable them to obtain an engineering education.

The 1952 board of judges for the **AAAS-George Westinghouse Science Writing Awards** is composed of **Morris Meister**, principal of the Bronx (N. Y.) High School of Science (chairman); **James A. Linen**, publisher of *Time*; **Henry P. Aldrich**, secretary, Geological Society of America; **Geoffrey Edsall**, director of Biologic Products, Army Medical Center; **John R. Dunning**, dean of the Faculty of Engineering, Columbia University; **Rudolph Flesch**; **Charles C.**

Hemenway, former editor of the Hartford (Conn.) *Times*; Hillier Kriehbaum, of New York University School of Journalism; and Howard A. Meyerhoff, AAAS. These men, representing education, journalism, and science, will select the two magazine and newspaper stories which, in their opinion, exhibit the best science writing published in the past year in such media. Prize winners will receive \$1000 each and an expense-paid trip to the AAAS Annual Meeting in St. Louis next December. For entry blanks and full information, write, wire, or telephone the Managing Committee of the Awards, 1515 Massachusetts Ave., N.W., Washington 5, D. C.

In the Laboratories

Mellon Institute has established a Division of Microbiology that will function in the Department of Analytical Chemistry. The new division will be available to research departments and fellowships of the institute, for specialized advice and short-time studies. William W. Leathen, a Mellon fellow since 1946, will head the division. His research experience has included the investigation of mine acid control, variations of hemolytic streptococci, bacteriological oxidation of ferrous iron, and the effect of industrial wastes on the bacteriological flora of streams.

The **Research Institute for Iron, Steel and other Metals**, of the University of Tohoku, Sendai, Japan, has installed the first helium liquefier in Asia, for research to be done in the Low Temperature Research Laboratory. Among those conducting the research will be Eizo Kanda, Yoshio Shibuya, and Tadao Fukurai. Arthur D. Little, Inc., designed and installed the ADL Collins Helium Cryostat that will be used.

Schwarz Laboratories, Inc., is moving its administrative offices and analytical laboratories from New York City to Mount Vernon, N. Y., where its manufacturing plant, research laboratories, and fine chemicals division are located.

Sinclair Chemicals, Inc., has been formed by Sinclair Oil Corporation to expand operations in the field of petrochemicals. The new subsidiary, of which P. C. Spencer, president of the parent corporation, will be president, will utilize the facilities of Sinclair Research Laboratories, but will also have its own research staff and market development department. John A. Scott, manager of Sinclair's petrochemical division since its inception, will be executive vice president.

Helen E. Duell, of Alfred University, has joined the research staff of **Smith, Kline & French Laboratories**, as a literature scientist, and Paul A. Mattis, of Western Reserve University School of Medicine, has become head of the Pharmacology Section.

Westinghouse Air Brake Company and its subsidiary and affiliated companies, including European, will be served by a new research laboratory, of which Thomas Meloy will be director. Dr. Meloy is presi-

dent of Melpar, Inc., Alexandria, Va., a subsidiary. He will be chairman of a research and development committee representing various divisions of the company.

Meetings and Elections

The **American Academy of Forensic Sciences** will hold its annual meeting Feb. 26-28 at the Drake Hotel, Chicago. Those planning to present papers should submit their titles to Milton Helpert, program chairman, 106 E. 85th St., New York 28, before Dec. 1. The **Society for the Advancement of Criminology** will hold an interim meeting Feb. 24 at Northwestern University Law School, Chicago, immediately preceding the meeting of the academy. Ralph F. Turner, Department of Police Administration, Michigan State College, Lansing, is program chairman.

The **American Cancer Society** will hold its Annual Meeting Scientific Session at the Park Sheraton Hotel, New York, Oct. 21-22. General theme will be "Radiations versus Cancer: A Critical Evaluation," and various aspects of this topic will be considered by Ross Golden, Laurence L. Robbins, Paul C. Hodges, Edith Quimby, Simeon T. Cantril, Hermann Lisco, James J. Nickson, Richard H. Chamberlain, Maurice Lenz, Roger A. Harvey, Gilbert H. Fletcher, and Eugene P. Pendergrass. Among the discussants will be a number of U. S. investigators and the following scientists from abroad: H. L. Kottmeier, Radiumhemmet, Stockholm; François Baclesse, Curie Institute; M. Lederman, Royal Cancer Hospital, London; and Jens Nielsen, Radium Center, Copenhagen. The foreign visitors will also speak on the program and will participate in a round table on "End Results in the Treatment of Uterine Cancer," during which Howard C. Taylor, Jr. will be moderator.

The **American Society for Testing Materials** has elected Robert J. Painter executive secretary to succeed C. L. Warwick, who died Apr. 23. Raymond E. Hess was made associate executive secretary and editor-in-chief.

The **American Society of Tropical Medicine and Hygiene** and the **American Academy of Tropical Medicine**, both affiliated with AAAS Section N, will hold a joint annual meeting at the Hotel Galvez, Galveston, Texas, Nov. 13-15. In addition to the scientific sessions and annual business meeting, symposia will be held on "Toxoplasmosis" and "Sanitary Engineering in the Tropics."

The third annual meeting of the **Animal Care Panel** will be held at the University of Illinois, Chicago Professional Colleges, Dec. 3-4. Programs, ready for distribution this month, may be obtained by writing to Bennett J. Cohen, secretary, Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill.

The recently formed **Committee for the Scientific**

Study of Religion will meet in New York Dec. 26-27. Social scientists who would like to present papers should send abstracts of not more than 300 words to Talcott Parsons, Department of Social Relations, Harvard University.

The third **Conference on High-Frequency Measurements** will be held at the National Bureau of Standards, Jan. 14-16, under the joint sponsorship of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and NBS. The conference will be devoted exclusively to techniques and problems, with particular emphasis on new developments.

The **Genetics Society of America** has elected Roy E. Clausen president, W. Ralph Singleton vice president, Clarence P. Oliver secretary (for a three-year term), and has re-elected Ernst Caspari treasurer. Curt Stern was elected for a three-year term as a member of the Public Education and Scientific Freedom Committee.

A joint meeting of the **Society of American Foresters** and the **Canadian Institute of Forestry** will be held in the Mount Royal Hotel, Montreal, Nov. 17-20. The program, on the theme "Trends in North American Forestry," will have 100 speakers in two general and seven technical sessions.

Miscellaneous

The **Bjorksten Research Foundation** has been formed by the Bjorksten Research Laboratories to explore problems that may not have an immediate commercial application. Among those scheduled for foundation study are the biochemical changes observed in the aging of living tissues. Four classes of foundation membership have been set up: sustaining, life, corporate, and honorary. Trustees are Johan Bjorksten, Luther L. Yaeger, John B. Eisen, John H. Stephan, Rolph Darbo, John D. Ferry, and Durward O. Guth.

At the conclusion of the first year's work of the **Building Research Advisory Board**, the Defense Production Administration has extended its contract with the National Academy of Sciences for an additional year. The report of the first year of Study of Conservation in Building Construction is available at \$3.50 from the Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C.

Under the provisions of the **Colombo Plan** for the economic development of South and Southeast Asia, a contract has been awarded to the Photographic Survey Corporation Limited, of Toronto, extending over a period of four years, for the purpose of making an aerial survey of Pakistan. The mapping should be completed by the end of 1954, at which time the geologists will return to Canada to prepare their reports. Results of their studies will be plotted on maps that will be accompanied by a geological report to the Pakistan government. Top priority has been given to the Nari-Bolan Project, involving an irriga-

tion program; the Upper Indus River, between Swat and Mianwali; the Quetta-Kalat block, and the Thal Project. Provision has been made for the preparation of large-scale maps of Karachi and Hyderabad and their environs for the purpose of town planning.

Chemicals wanted by the **Registry of Rare Chemicals**, 35 W. 33rd St., Chicago, Ill., include: beryllium molybdate; hydroxy magnesium aminoacetate; sodium tetrathionate; pyroarsenic acid; titanium disulfide; ascaridole; brassylic acid; cerotic acid; ethyldimethyletylammonium chloride; 5-hydroxymethyl furfural; 1-nitrohexane; octahydrophenanthrene; divinyl sulfone; tetraphenylarsonium chloride; D-tagatose; anserine; enterokinase; pyrithiamine; steapsin; and xanthotoxin.

W. C. Russell, executive secretary of the Rutgers University graduate faculty for a number of years, was recently named dean of the newly created Graduate School. Dr. Russell is also professor of agricultural biochemistry.

The **Tea Research Institute of East Africa** was formally opened at Kericho, Kenya, by Philip Mitchell, chairman of the East Africa High Commission and Governor of Kenya. B. A. Keen, chairman of the governing body and director of the East Africa Agriculture and Forestry Research Organization, presided over the ceremony. The institute is the only research organization in East Africa to be established without direct financial support from government sources; it is autonomous and receives its entire funds from the tea industry. Close liaison has been maintained between the institute and the East African Advisory Council for Agriculture, Animal Industry and Forestry; the Departments of Agriculture; and the East African Agriculture and Forestry Research Organization.

Recent visitors at the **U. S. Forests Products Laboratory**, Madison, Wis., included J. R. Shairani, Pakistan; Hubert Mauser, Forestry College, Vienna; Eugenio de la Cruz, College of Forestry, Los Banos, Philippines; F. Y. Henderson, Forest Products Research Laboratory, Princes Risborough, Eng.; J. D. Brookes, of the Australian Paper Manufacturers Ltd., South Melbourne; J. Barerji, Ministry of Food and Agriculture, New Delhi; and five visitors from Canada—S. W. Milnes and R. C. Rogers of Ayers, Ltd., Lachute Mills, Quebec; W. J. Smith, Forest Products Laboratory, Vancouver; J. D. McCrae, National Research Council, Ottawa; and D. E. Kennedy, Forest Products Laboratory, Ottawa.

Edwin S. Hamilton and Gunnar Gunderson will attend the sixth general assembly of the **World Medical Association**, to be held in Athens Oct. 11-17, as official delegates of the American Medical Association. Austin Smith and Dwight H. Murray will attend as alternates. Others who will attend the sessions are George F. Lull, Louis H. Bauer (AMA president and secretary-general of WMA), Elmer L. Henderson, and R. L. Sensenich.