

Tracer and Complex Mixture Analysis"; I. M. Stein, Donald Williamson, and V. F. Hanson, Symposium on Problems Associated with the Development of Instruments for Research and Process Measurement and Control.

August 5 E. J. Rosenbaum, "Raman Spectroscopy"; A. O. Beckman, "Applications of Ultraviolet Spectrophotometry"; D. N. Hume, "Amperometric Titrations, and Applications of Self-Balancing Recording Potentiometers"; N. H. Furman, "Electrical Methods of Analysis—A Brief Survey of Some Needs for Further Instrumentation."

August 6 O. G. Koppius, "Infrared Product Controller."

Registration for several of the Conferences, namely, Corrosion, Instrumentation, Vitamins, Food and Nutrition, Medicinal Chemistry, and Cancer, has not been closed. Accommodations are available for a few registrants at each.

Requests for attendance at these Conferences or for additional information should be addressed to W. George Parks, Gordon Research Conferences, AAAS, Colby Junior College, New London, New Hampshire.

## NEWS and Notes

**George H. Hart**, who for 22 years has headed the Animal Husbandry Division of the University of California College of Agriculture, has recently been named dean of the School of Veterinary Medicine, succeeding **C. M. Haring**, who became dean last year after serving for over 30 years as head of the Division of Veterinary Science. Dr. Haring retired as professor emeritus on July 1.

**Ralph W. Clark**, professor of pharmacy, University of Kansas, and **George M. Hocking**, professor of pharmacognosy, University of Buffalo, are visiting professors at the University of Mississippi during the Summer Session. Prof. Hocking will go to the University of New Mexico in September as professor of pharmacognosy.

**Wallace W. Atwood**, former president of Clark University, and Mrs. Atwood recently left on an 8-week summer field trip to the Rocky Mountains to continue his study of the physical evolution of the Rocky Mountain area.

**Webster Chester**, professor of biology at Colby College since 1903, retired in June. In recognition of his services the College conferred on him at its Commencement the honorary D.Sc. degree. A fund which now totals \$700 is being raised by Dr. Chester's former students to purchase books for the Biology Department in

commemoration of his long and distinguished period of service.

**Ralph E. Grim**, petrographer of the Illinois State Geological Survey and authority in the field of clay minerals, has been named a research professor of geology at the University of Illinois. He will teach graduate courses there while carrying on his regular work with the Survey.

**Chandler McC. Brooks**, associate professor of physiology at the Johns Hopkins University School of Medicine, who returned recently from New Zealand and Australia, where he spent two years as a Guggenheim Fellow, has been appointed professor of physiology and pharmacology and director of that department at the Long Island College of Medicine. **Arthur A. Siebens**, of Johns Hopkins, and **E. E. Suckling**, chief of the Electronics Laboratory, University of Otago, Dunedin, New Zealand, will join Dr. Brooks in this new enterprise.

**A. Carlton Ernstene** has recently been appointed head of the Division of Medicine at the Cleveland Clinic, Cleveland, Ohio. Prior to joining the Clinic staff in 1932, Dr. Ernstene was a member of the faculty of the Harvard Medical School.

### Grants and Awards

The Engineering Foundation will sponsor 14 research projects for the year beginning October 1948. Grants have been recommended for the continuation of 12 of the past year's projects and for the support of 2 new ones. In selecting projects to be supported, preference has been given those of most fundamental nature,

not ordinarily undertaken by industrial research organizations, in such fields as hydraulics, metal cutting, iron alloys, properties of gases and gas mixtures, riveted and bolted structural joints, reinforced concrete, welding, and properties of metals at different temperatures. The Foundation also provides limited financial support to projects of primary importance to a group of industries. Research is undertaken at universities and some engineering plants, in cooperation with the Foundation's engineering founder societies: the American Society of Civil Engineers, the American Institute of Mining and Metallurgical Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers.

The Department of Chemistry, Carnegie Institute of Technology, has received \$2,500 from the Research Corporation, New York City, in support of a project on "Kinetic Studies of the Benzidine Rearrangement," now in progress under the direction of Robert B. Carlin.

The National Vitamin Foundation recently awarded new grants-in-aid, totaling \$16,000, to scientists at four universities for vitamin research. Since March 1946, the Foundation has appropriated \$126,320 for grants-in-aid on various research projects.

The new investigations involve eye health, the nutritional status of school children, the relationship between pyridoxine and fat metabolism, and the effects of time elements on the utilization of water-soluble vitamins. Working on these projects will be L. V. Johnson, assistant professor of ophthalmology, Western Reserve Univer-

sity School of Medicine; H. B. Pierce, professor of biochemistry in the College of Medicine, University of Vermont; R. S. Harris, director of the Nutritional Biochemistry Laboratory, Massachusetts Institute of Technology; and E. Geiger, professor of pharmacology and toxicology at the University of Southern California Medical School.

**The Mt. Desert Island Biological Laboratory**, Salsbury Cove, Maine, has received from the American Philosophical Society a grant of \$10,000 for the establishment of the Ulric Dahlgren Memorial Fund, income from which will be used for scholarships at the Laboratory. The late Prof. Dahlgren, of Princeton University, devoted much of his adult life to the development and welfare of the Laboratory. He was president of the Corporation at the time of his death.

**George H. Wise**, associate professor of dairy husbandry at Iowa State College, received a \$1,000 award from the American Feed Manufacturers Association at the recent Dairy Science meeting held at the University of Georgia. The presentation was made to Dr. Wise for his contribution to dairy cattle research over the past year. He has been principally concerned with soybean product factors involved in utilization of carotene and vitamin A in the dairy ration.

**Andrew G. DuMez**, dean of the School of Pharmacy, University of Maryland, and secretary of the American Council on Pharmaceutical Education, has been named 26th Remington medalist. In selecting Dr. DuMez, the Committee on Awards indicated that this distinction would be conferred "specifically as a recognition of his services as secretary of the American Council on Pharmaceutical Education," although "his general prominence in the fields of education and research also qualify him as a recipient of the medal." The gold medal award to Dr. DuMez will be made at the fall meeting of the New York branch of the American Pharmaceutical Association in New York City.

**Frederick D. Richey** of the Tennessee Experiment Station, USDA, recently received a distinguished ser-

vice award from the U. S. Department of Agriculture for his work in organizing and leading the cooperative corn-breeding program resulting in the availability of hybrid corn.

**Roy Winchester Crum**, director of the Highway Research Board of the National Research Council, has been named the 10th winner of the Marston Medal for achievement in engineering at the recent graduation ceremonies of Iowa State College. The Marston Medal is annually awarded to an engineering alumnus of the College who has achieved recognition in his field.

**Leslie G. S. Brooker**, in charge of sensitizing dye research at the Kodak Research Laboratories, recently received the 1946 Henderson Award of the Royal Photographic Society of Great Britain. Dr. Brooker, 4th Kodak scientist in Rochester to win the award, was commended for his "outstanding work over a number of years on photographic sensitizing dyes, and especially on the relation between the color and constitution of such dyes."

**Leroy R. Grumman**, chairman of the Board of Grumman Aircraft Engineering Corporation, has been awarded the 1948 Daniel Guggenheim Medal for his work in aircraft design for Naval and peacetime use. The best-known Grumman planes are those used for carrier operations during the war, the torpedo bomber, TBF, and the fighters, F4F, F6F, F7F, and F8F.

## Colleges and Universities

**The new Aero Medical and Atmospheric Institute** of the University of Illinois is expected to be completed in September. The \$400,000 Institute, to be operated by the College of Medicine on the campus of the Chicago Professional Schools, will be used generally for the study of physical environment in health and disease. It will be equipped with apparatus for the study of cold, heat, and barometric changes of the body and of aviation medicine. **John P. Marbarger**, assistant professor of physiology at the University of Vermont, has been appointed director of research for the Institute and associate professor of physiology in the College of Medicine, effective July 1. While serving as an

Army captain from 1943 to 1946 at the U. S. Air Forces' Aeromedical Laboratory, Wright Field, Dr. Marbarger conducted research in pressure breathing and thermal regulation under extreme environmental stress.

**Ohio State University** will launch a year-long celebration of its 75th anniversary on October 14 and 15 with addresses by distinguished speakers in the fields of science and technology, and man and society. Scheduled to appear on the program are Karl T. Compton, of the Massachusetts Institute of Technology, Mildred McAfee Horton, of Wellesley College, Reinhold Niebuhr, of Union Theological Seminary, Charles F. Kettering, research engineer, and James L. Morrill, of the University of Minnesota.

**The University of Cincinnati Observatory** recently acquired the only known copy of *Exposition of the discoveries and theories of modern astronomy*, a book written 100 years ago by the Observatory's founder, Ormsby MacKnight Mitchel. The volume was discovered in Mt. Lavinia, Ceylon, by A. T. G. Brito, who has presented it to the Observatory.

**Facilities for research in the fields of rubber and plastics** are being made available by the Wayne University Engineering Research Institute to firms wishing to submit problems for solution. Established during the war and since expanded, the Institute will now provide exploration of engineering problems in other specialized fields as well. The equipping and establishment of the plastics laboratory has been made possible through donations by the Detroit Rubber and Plastics Group, the Detroit Section of the Society of Plastics Engineers, and other industrial organizations. Personnel and research facilities are provided by the Institute, with Wayne faculty members acting as consultants and project engineers.

**Two projects involving fisheries research**, conducted by members of the University of Washington faculty, are now in progress. Under the leadership of Lauren R. Donaldson, director of the University's Applied Fisheries Laboratory, an expedition is visiting Bikini atoll to survey delayed

effects of the atomic bombs on surviving animal and plant life. The group will spend about 21 days collecting the radiobiological data which will be brought back to the Laboratory for analysis. A very great part of the federally-supported research on effects of radioactivity on marine life is being done at the University. In addition to those associated with the University, the party will include Asher A. White, University of Minnesota; Spencer W. Tinker, University of Hawaii; Theodore H. Bullock and Edward Held, University of California, Los Angeles; and George Hollenberg, University of Redlands.

A study of the great natural salmon runs will be made by the University's Fisheries Research Institute in a project supported by the Alaska Salmon Industries, Inc. According to the director of the Institute, William F. Thompson, research crews have been sent to southeastern Alaska, Kodiak Island, and Bristol Bay, Alaska, to investigate the problem of developing a permanent stabilized yield. Over recent years the salmon hordes have diminished to a great extent, and an attempt will be made to learn whether this is due to overfishing or to other causes. From the commercial catch, the crews will collect data on size, sex, age, and other factors of the run and study the spawning grounds for information about fluctuations of runs. It is hoped that this project will assist in developing conservation and proper use of natural resources.

## Industrial Laboratories

Sweden's first penicillin factory has recently been completed in Stockholm by the biochemical industry, Kärnbolaget AB. According to the managing director of the company, David Isaksson, the capacity of the plant is sufficient to meet the country's total needs for penicillin, which in 1947 were estimated at 300,000 million international units, exclusive of that used for veterinary purposes.

Karl Cohen, head of the Theoretical Physics Group of the Standard Oil Development Company, has joined the staff of the H. K. Ferguson Company as technical director for atomic activities. Dr. Cohen has served as director of the Theoretical Division of the

Manhattan Project Laboratory at Columbia University and as consultant to the Atomic Energy Commission on special problems at the Clinton and Hanford Laboratories. One of the projects of the H. K. Ferguson Company with which Dr. Cohen will be concerned is the construction of the first peacetime nuclear reactor at Brookhaven National Laboratory.

## Meetings

**The Electron Microscope Society of America** will hold its annual meeting at the McLennan Laboratory, Department of Physics, University of Toronto, September 9-11. The program will include invited and contributed papers and a symposium on "Replica Techniques and Their Application," with S. G. Ellis, of the Radio Corporation of America, presiding. On Friday night, Sydney E. Smith, president of the University, will be host at a dinner in honor of those attending the meeting. An exhibit of electron micrographs has been planned, and the electron microscopy laboratory in the new E. F. Burton Wing of the Department of Physics will be open for visitors. Accommodations should be secured immediately, since the Canadian National Exhibit will be in progress in Toronto at the time of the meeting. A certain number of University residences will be available. Reservations for these may be obtained from Mrs. B. M. Deacon, Department of Physics, University of Toronto.

The 11th meeting of the **Meteoritical Society**, an affiliated society of the AAAS, will be held at the Institute of Meteoritics, University of New Mexico, Albuquerque, September 7-8. The sessions will open at 9:00 A.M. and 2:00 P.M. The scientific sessions will be open to the public, and all persons interested in meteoritics are cordially invited to attend.

**The Second Inter-American Congress on Brucellosis** will be held in Argentina the latter part of November 1948. The Inter-American Committee on Brucellosis has the active collaboration of the Pan American Sanitary Bureau in organizing the Congress under the auspices of the

Argentine government. Everyone interested in the problems of brucellosis is invited to attend. The program will include sessions on research, epidemiology, clinical aspects of the human disease, and control of the animal disease. Arrangements are being made for Congress members to visit Argentine laboratories, dairies, and meat-packing plants, where serious brucellosis problems are encountered. Correspondence regarding the Congress should be addressed to Alice C. Evans, president, Inter-American Committee on Brucellosis, 2001 Connecticut Avenue, N.W., Washington 8, D. C.

**A conference on Nuclear Physics and Low Temperatures** will be sponsored by the Physics Division of Oak Ridge National Laboratory August 7-8. This is the first of series of physics conferences organized in response to the increasing interest in problems of this kind. The scientific sessions will be held in Oak Ridge on August 7 and the following day will be devoted to social events. The sessions and their respective speakers are as follows: morning session—"Alignment of Nuclear Spins," M. E. Rose, Oak Ridge National Laboratory; and "Nuclear Relaxation Phenomena at Low Temperatures," E. M. Purcell, Harvard University; afternoon session—"Thermal Equilibrium at Low Temperatures," H. B. G. Casimir, Philips Works, Eindhoven, The Netherlands; and "The Superfluid State," F. London, Duke University. Requests for housing and general information should be addressed to H. C. Maggart, Physics Division, Oak Ridge National Laboratory, P. O. Box P, Oak Ridge, Tennessee.

**The New England Association of Chemistry Teachers** will celebrate the 50th anniversary of its organization at its annual Summer Conference to be held August 23-28 at the University of Maine, Orono. One feature of the program is a symposium on "Correlation of High School and College Chemistry Courses," with William F. Ehret, New York University, Stuart R. Brinkley, Yale University, Frederic B. Dutton, Michigan State College, John C. Hogg, Phillips Exeter Academy, Ralph E. Keirstead, Bulkeley High School, and Dorothy W.

Gifford, Lincoln School, participating. In addition to that part of the program devoted to chemistry education, addresses will be made on such varied subjects as atom-smashing machines, tracer techniques, the newly discovered elements, the Antimalarial Drug Program, reaction rates and catalysis, paper chemistry, and porcelain enamel. Further information may be obtained from Robert T. Hart, Department of Chemistry, University of Maine, Orono, Maine.

The American Mathematical Society held a meeting at the University of British Columbia, Vancouver, on June 19, following the meetings there of the Royal Society of Canada. In the number of papers presented, the meeting was the largest yet held on the West Coast. The program featured an invited address by R. D. James, of the University of British Columbia, on "Recent Progress in the Goldbach Problem." The society plans to hold meetings in the Pacific Northwest at least every other year.

## Deaths

Charles T. Knipp, 78, emeritus professor of physics at the University of Illinois, died July 6 in Denton, Texas. Dr. Knipp, who was known for his work on the conduction of electricity through gases and for his rain-making experiments, retired from the University in 1937.

Leo Winter, 58, chairman of the Department of Oral Surgery and director of the Postgraduate Division of the New York University College of Dentistry, died July 6 in Lawrence, Long Island.

Harold L. Weatherford, 57, assistant professor of anatomy at the Harvard Medical School, died suddenly July 7 in Boston. His chief interest was in the field of histology, and he had at one time served as associate editor of the *Anatomical Record*.

Clarence W. Balke, 68, research director of the Fansteel Metallurgical Corporation, North Chicago, for 30 years, died at his home July 8. Last January Dr. Balke received the Perkin Medal of the American Section of

the Society of Chemical Industry for his metallurgical research which led to the production of tantalum in quantities sufficient for commercial use.

Anatole Kolodny, 55, died July 8 at his home in New York City. Dr. Kolodny, a practicing surgeon, was formerly affiliated with the Universities of Iowa and Illinois, where he taught anatomy and surgery.

Franz Weidenreich, 75, German-born anthropologist who was internationally known for his excavation and study of fossil man in China and Java, died July 11 at his home in New York City. Just before his death Dr. Weidenreich wrote an article on "The Human Brain in the Light of Its Phylogenetic Development," which appears in the August issue of *The Scientific Monthly*.

The 98-foot auxiliary ketch *Caryn*, latest addition to the fleet of the Woods Hole Oceanographic Institution, left on Monday, June 28, for a three-month deep-sea fishing expedition in the Bermudian area. Leader of the expedition, which is a joint project of the Chicago Natural History Museum and the Bermuda Biological Station for Research, Inc., will be Loren P. Woods, curator of Fishes at the Museum, who will be assisted by Fritz Haas, curator of Lower Invertebrates, and a number of other members of the Museum staff. Dugald S. Brown will supervise the Bermuda Biological Station's part in the expedition, which has been officially named the "Bermuda Deep-Sea Expedition, 1948."

Before sailing, the *Caryn* was fitted out with a heavy trawl winch containing 12,000 feet of  $\frac{3}{8}$ -inch wire. The fishing will be done with otter trawls, rigid frame trawls, and ring nets. The specimens collected for the Chicago Museum will be used for a projected Hall of Deep-Sea Life there.

William C. Schroeder, curator of Fishes at Harvard's Museum of Comparative Zoology, accompanied the ship on the voyage to Bermuda to test the nets and to acquaint the leaders of the expedition with the various types of equipment on board.

This week's cover shows Mr. Schroeder on deck, examining some of the nets to be used by the Chicago scientists.

A national clearinghouse of information on the social sciences, to serve American colleges and universities, has been established by the Office of Education, Federal Security Agency. The announcement was made in connection with the appointments of Claude E. Hawley, former adviser in municipal government to Mayor Fletcher Bowron, of Los Angeles, as associate chief for social sciences, and J. Laurence Phalan, professor of economics at Middlebury College, Vermont, as specialist in economics, both positions being in the Division of Higher Education of the Office of Education. Under the direction of Dr. Hawley, the Section for Social Sciences now provides specialists in four fields: history—Jennings B. Sanders, economics—Dr. Phalan, geography—Otis W. Freeman, and political science—Dr. Hawley. Eventually, the Section will provide services for the fields of anthropology, psychology, and sociology. All of the specialists will be available to assist colleges in developing teaching and research techniques. One of the first projects of the Section will be a study of the implications of atomic development in the teaching of social sciences.

The Zoological Society of Bengal has this spring inaugurated publication of its *Proceedings*, to appear biannually. The journal will be devoted to scientific papers reporting the results of original zoological research which have been read before the meetings of the Society. The foreign subscription price is £1. In the first issue the Society announced plans for building up a reference library of its own because of the handicaps to Indian zoological workers which have resulted from inadequate library facilities and unavailability of current literature. The Society appeals to zoologists abroad to send any spare reprints for use in the library and to put the Society on their mailing lists. Correspondence should be directed to the Honorary Secretary, Zoological Society of Bengal, 35 Ballygunge Circular Road, Calcutta 19, India.