

## Symposium on Waves and Rhythms

One of 15 symposia planned for the Centennial Celebration is to deal with the subject of waves and rhythms. If nature ever abhorred a vacuum, she seems to love waves and rhythms. Rhythmic events are characteristic of many phenomena, ranging from social, political, and economic cycles, through a variety of biological rhythms, to radiation phenomena in chemistry and physics.

Three papers will be presented on September 14 dealing with selected aspects of this subject. James B. Macelwane, S.J., will consider rhythmic events in the earth's crust from the point of view of a seismologist. Dr. Macelwane is professor of geophysics, dean of the Graduate School, and dean of the Institute of Geophysical Technology at St. Louis University. He is a member of the National Academy of Sciences and author of several books and many papers on seismology and related subjects.

Hudson Hoagland will consider aspects of biological

rhythms with special reference to determinants of rhythmic activity in the nervous system. Dr. Hoagland, who is executive director of the Worcester Foundation for Experimental Biology, neurophysiologist at the Worcester State Hospital, and research professor of physiology at Tufts Medical School, is the author of numerous publications dealing with aspects of neurophysiology and the physiology of time.

A third aspect of waves and rhythms will be discussed by Vern O. Knudsen, a student of the physics of sound and of supersonics, who has made outstanding contributions to problems in the field of audition. Dr. Knudsen is professor of physics and dean of the Graduate Division of the University of California at Los Angeles. He has served as president of the Acoustical Society of America and in 1934 was awarded the \$1,000 prize of the AAAS. In addition to many scientific papers, he is the author of the books *Architectural acoustics* and *Audiometry*.

## NEWS and Notes

**Abraham White**, associate professor of physiological chemistry at Yale University, has been appointed professor and chairman of the Department of Physiological Chemistry in the new School of Medicine of the University of California at Los Angeles. Dr. White, who has been a member of the Yale faculty since 1933, received the Eli Lilly Prize Award in Biochemistry in 1938. He will take up his new duties on July 1.

**William W. Flexner**, professor of mathematics at Cornell University since 1934, has resigned, and in June will take over his new duties as senior statistician in charge of transport statistics for the Department of Economic Affairs of UN.

**Lewis W. Beck**, associate professor of philosophy at the University of Delaware, has been appointed professor of philosophy at Lehigh University, effective September 1.

**Robert F. Griggs**, professor of biology, University of Pittsburgh, will serve as consultant to the University of California during the summer months. Dr. Griggs will advise the University on the use of fire as a tool in the management of Brush Ranges.

**Peter L. Bellaschi**, formerly with the Westinghouse Electric Corporation, has recently become engaged in consulting work. Mr. Bellaschi, who has lectured before engineering groups in this country, Europe, and South America, has been active in the fields of transformer development, lightning research, transmission, standardization, etc. He is presently located at Sharon, Pennsylvania (P. O. Box 403).

**C. J. Mackenzie**, president of the National Research Council of Canada, has been appointed president of the Atomic Energy Control Board, succeeding Gen. A. G. L. McNaughton.

**A. L. Pickens**, professor of biology, Brenau College, reports that contacts have been re-established with **Otto Porsch**, of Vienna, author of numerous works on pollination of flowers by animals and especially by birds. Associated with the Hochschule für Bodenkultur, he had, by the late 1930s, published a number of papers on the less familiar subject of mammalian

pollinators. Although Dr. Porsch has reached the age of retirement, he hopes to continue research in his favorite field.

**Ford M. Milam**, former research assistant in soils and crops at North Carolina State College, whose appointment as coordinator of agricultural education and research under the American Military Government in South Korea was announced in *Science*, December 19, 1947, has been elected vice-president of the Korean Agricultural Scientific Society "in recognition of his services to scientific research in agriculture in Korea." The Society, of which Cho Paik Hyun, dean of the Suwon College of Agriculture and Forestry, is president, is a group of outstanding Korean and American scientists similar to the American Society of Agronomy.

**Ralph M. Hixon**, head of the Department of Chemistry and director of the Corn Research Institute, Iowa State College, has been named new dean of the Graduate College. Dr. Hixon succeeds **R. E. Buchanan**, whose retirement on July 1 has been previously announced.

**Bradford B. Hudson**, after service as psychologist with the Office of Strategic Services and the Central In-

telligence Agency, has been appointed assistant professor of psychology at the Rice Institute, Houston, Texas, effective in August.

**Harold E. Way**, who has been head of the Physics Department at Knox College since 1937, has accepted appointment as professor of physics and head of the department at Union College. He succeeds **Vladimir Rojansky**, who will devote full time to teaching and special research projects.

**Harlow Shapley**, director of the Harvard College Observatory, has been elected an Honorary Foreign Member of the Royal Irish Academy of Dublin. The Academy was founded in 1789 and has a total membership of approximately 200.

## Colleges and Universities

A collection of allergenic pollen and specimens of all plants producing hay fever throughout the United States is being undertaken under the auspices of the American Academy of Allergy by the University of Illinois College of Pharmacy. **Ralph F. Voigt**, associate professor of pharmacognosy and pharmacology, will be curator of the collection, the samples and specimens being received and kept at the College's proposed Drug Plant Experimentation Station, to be located at Lisle, Illinois. An Academy subcommittee consisting of **O. C. Durham**, chief botanist of Abbott Laboratories and also a member of the faculty of the University of Illinois College of Pharmacy, **A. O. Dahl**, of the University of Minnesota, and **Dr. Voigt** will supervise the collection. As slides of the various pollens are made available, physicians and research workers in this field will be able to obtain them for use in their studies.

**Richmond Professional Institute**, a division of the College of William and Mary, will add to its curriculum next September a four-year course designed to prepare students for employment in the chemical industry. This course, which was planned by **Mary E. Kapp**, chairman of the Chemistry Department, and **C. W. West**, assistant professor of chemistry, in cooperation with **I. J. Krepick**, director of business administration, will combine basic

information in chemistry and physics with essentials of business administration. In addition to year courses in general chemistry, qualitative and quantitative analysis, organic and industrial chemistry, physics, and mathematics, appropriate business subjects, psychology, and English will be taught. Having obtained the B.S. degree in chemical technology at the conclusion of the course, students should be equipped for entrance at an apprentice level to the marketing, market research, sales, and advertising divisions of industries where chemistry plays a major role.

A series of lecture-demonstrations for teachers of physiology or pharmacology, extending from July 5 to 10, will be given in the Department of Physiology, New York State Veterinary College, Cornell University. The course was recently announced by private communication to physiologists and pharmacologists. Space for several more persons at the demonstrations is still available. There will be no fee for visitors attending the meetings. Further information may be obtained by writing to **H. H. Dukes**, Department of Physiology, New York State Veterinary College, Cornell University, Ithaca, New York.

A portrait of **Lewis H. Weed** was presented to the Johns Hopkins University on May 14 by a group of his friends numbering more than 330. The picture, painted by **John C. Johansen** of New York City, will be hung in the Welch Medical Library. **Dr. Weed**, who was appointed professor of anatomy at Johns Hopkins in 1919, dean of the Medical Faculty in 1923, and director of the School of Medicine in 1929, recently retired from his university posts to devote full time to the chairmanship of the Division of Medical Sciences, National Research Council.

The Oklahoma Baptist University library has announced the addition of 513 new items to its geology collection. The gift, made by **Frederick J. Smith**, of the Sinclair-Prairie Oil Company, includes books, reprints, monographs, and scientific journals. Earlier this year, the collection was given several thousand volumes by oil and mining

companies and many of the state geological surveys.

## Meetings and Elections

At the convention of the Biological Photographic Association, to be held September 8-10 in Houston Hall, University of Pennsylvania, Philadelphia, there will be an interesting exhibition of prints, color transparencies, and motion pictures in the field of biological photography. As an innovation, organized symposia and demonstrations are planned. **Edmund J. Farris** is president of the convention, and **Harry E. Morton** is chairman. Further information about either the Association or the forthcoming meeting can be obtained from: Secretary, Biological Photographic Association, University Office, Magee Hospital, Pittsburgh 13, Pennsylvania.

**La Société de Chimie Biologique** is in process of organizing its 8th Congress, which will be held in Paris, October 6-8, and which will be the first international gathering of general biochemists taking place in France in the last 10 years. The Organizing Committee hopes that the Congress will be as successful as that held in Liège in 1946. In addition to sessions devoted to Proteins and Enzymes (**MM. Theorell** and **Fromageot**), Organic-biological Chemistry (**MM. Stoll** and **Janot**), and Vitamins and Hormones (**MM. Dodds** and **Horeau**), there will be sessions on other subjects, demonstrations, and various social functions. Further details concerning the program and reservations may be obtained from **Jean Courtois**, Secretary of the Congress, 4, avenue de l'Observatoire, Paris 6, France.

Science Service has recently announced the election of two new trustees, **Karl Lark-Horovitz**, chairman of the Department of Physics, Purdue University, and general secretary of the AAAS, and **Charles E. Scripps**, of Cleveland, Ohio. With the exception of the AAAS, which still has one trustee vacancy, the National Academy of Sciences, the National Research Council, the journalistic profession, and the Scripps Estate have three representatives each on the board. The institution which has

played such an outstanding role in the popularization of science has also renamed the following officers: president, Harlow Shapley, director of Harvard College Observatory; vice-president and chairman of the Executive Committee, Alexander Wetmore, secretary of the Smithsonian Institution; treasurer, O. W. Riegel, director of the Lee School of Journalism, Washington and Lee University; and secretary, Watson Davis, director of Science Service. Additional members of the Executive Committee are Frank R. Ford, editor of the *Evansville* (Indiana) *Press*, and E. G. Conklin, of Princeton University.

**A research conference on coccidiosis** is being planned by the New York Academy of Sciences for March 3-4, 1949, at the American Museum of Natural History in New York City, and investigators in this field throughout the country will be invited to attend. The Organizing Committee is anxious to receive suggestions that will aid in making the conference an extremely successful one. Further details may be obtained from Sterling Brackett, Organizing Chairman, American Cyanamid Company, 1937 West Main Street, Stamford, Connecticut.

**Officers of the Crystallographic Society of America**, which recently met jointly with the American Society for X-ray and Electron Diffraction for the first time (*Science*, April 23, p. 419), are shown on this week's cover. They are, left to right: S. G. Gordon, Academy of Natural Sciences, Philadelphia, counselor; J. W. Gruner, University of Minnesota, retiring president; A. Pabst, University of California, president; and William Parrish, Philips Laboratories, secretary-treasurer.

**The annual initiation ceremonies, reception, and banquet of the Kappa Chapter of Sigma Xi** were held at the Men's Faculty Club, Columbia University, Tuesday evening, May 4. One hundred forty-eight new members were initiated. Irving Langmuir, 1932 Nobel Prize winner and associate director of General Electric Research Laboratories, gave the Sigma Xi address, "Weather, Its Causes and Relationships." The following officers

of the Kappa Chapter were elected for 1948-49: president, Paul F. Kerr, professor of geology; vice-president, John M. Nelson, professor emeritus of chemistry; and secretary-treasurer, John S. Karling, professor of botany.

## NRC News

**A conference on conservation in Micronesia** was held in Honolulu on April 19-20, under the auspices of the Pacific Science Board of the National Research Council. Edwin H. Bryan, Jr., the Board's Honolulu officer, reports that discussions centered around the conservation of renewable natural resources, and the preservation of unique and irreplaceable natural features, archaeological sites, and historical monuments.

Scientists familiar with Micronesian conditions and others with experience in conservation, representing several government departments as well as scientific institutions in Hawaii, were invited to attend. The Bernice P. Bishop Museum and the University of Hawaii were hosts to the conference, which was organized by F. R. Fosberg, a member of the University's botany faculty, in collaboration with the Honolulu office of the Pacific Science Board. Harold J. Coolidge, executive secretary of the Board, was in Honolulu for the occasion.

The results of this conference are to be used as the basis for a subsequent conference on the same subject to be held in Washington, D. C. The date of the latter has not been announced.

## Deaths

**Axel F. Enström**, 73, a leader in the organization and promotion of Swedish technical research, died in Stockholm March 31. In 1919 he organized the Swedish Academy of Engineering Sciences, of which he was managing director until 1938 and president from 1938 to 1940. From 1922 to 1935 he was president of the Swedish Standards Commission.

**Oscar W. Oestlund**, 90, a member of the Department of Zoology, University of Minnesota, from 1885 until his retirement in 1927, died at his home April 16.

**William Thomas Shaw**, 75, emeritus professor of zoology at Fresno State College, died of a heart attack at his home in Fresno, California, on May 13. At the time of his death Dr. Shaw was completing an extensive manuscript on the Columbian ground squirrel and was about to leave for the Northwest to visit the site where Lewis and Clark were camped when they described the species.

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**On the day preceding publication** of the first issue of the new *Scientific American* (May 11), Gerard Piel, editor and publisher of the new monthly magazine, presented to the New York Public Library the 103-year-old first volume of the former *Scientific American*. The 178 volumes which make up the entire run of the magazine which was founded in 1845 by Rufus Porter, an inventor, will be delivered to the library at a later date.

The idea of the new *Scientific American* was originated by Mr. Piel and Dennis Flanagan, both former science editors of *Life*, and Donald H. Miller, Jr. The uniquely illustrated first issue features articles bearing on sociology, anthropology, "social physics," medicine, astronomy, biology, physics, and the operation of blast furnaces. In addition, there is a section devoted to material of interest to the amateur astronomer, a book review department, a section describing recent developments of a governmental nature which affect every citizen, a letters to the editors department, and others. Both the layman who has an active interest in science and the scientist who considers himself a layman in fields other than his own will find among the pages of the new *Scientific American* material which is as diversified as it is readable.

**An impressive memorial in bronze and granite**, topped by a flagstaff and depicting the various services performed by pharmacists in the wars of our country, was dedicated on the grounds of the American Pharmaceutical Association in Washington, D. C., on May 7. The national memorial is the gift of H. A. B. Dunning, of Baltimore, past president and member of the Council of the Association. In connection with the dedication cere-

monies a series of conferences were held which were aimed at coordinating pharmacy manpower and services for efficient use in any future national emergency. In a session over which George D. Beal, chairman of the Association's Council presided, D. W. Bronk discussed the part played by the NRC in pharmaceutical science, and pharmacy in the military services was discussed by the Surgeons General of the Navy and Army and the Air Surgeon. S. H. Dretzka, president of the American Pharmaceutical Association, presided over another session which included papers on "Accomplishments of the National Health Assembly, by J. Donald Kingsley, Assistant Administrator of the Federal Security Agency; "The U. S. Public Health Service," by Surgeon General Leonard A. Scheele; "Medical Implications of Atomic Warfare," by Philip S. Owen, executive director of the Committee on Atomic Casualties; "The National Blood Program of the American Red Cross," by the program's administrator, Ross T. McIntire; "The Selective Service," by Major General Lewis B. Hershey; and "The Council on National Emergency Medical Service," by Richard L. Meiling, secretary of the Council.

**A committee of the Botanical Society of America**, which is in process of gathering new and outstanding ideas for teaching aids for a general botany course, is soliciting the aid of high school and college teachers of general botany and general biology courses in the hope that they will be willing to share with others any particularly effective demonstration methods or techniques which they are using. Credit will be given to the sources of all ideas embodied in a report to be presented next September. The committee would particularly appreciate copies of local laboratory manuals and outlines of experiments not commonly used in currently published manuals. Suggestions should be mailed to Victor A. Greulich, Texas A & M College, College Station, Texas.

**New low-temperature laboratories** have recently been opened in the Division of Mechanical Engineering of the National Research Council of

Canada. Until now, only very limited laboratory facilities for small-scale tests have been available in Canada, although advanced bases for field testing have been set up as far North as transportation conditions permitted. In the new laboratories there are three cold chambers, the largest of which can accommodate test specimens up to 50 feet in length by 15 feet in width. The refrigeration plant, one of the largest of its kind in Canada, enables temperatures as low as  $-80^{\circ}\text{F}$  to be obtained in all of the cold rooms and the achievement of a considerable drop or rise in temperature within a relatively brief period. J. L. Orr, a University of Toronto graduate in engineering physics, is in charge of the laboratories and will direct work on problems ranging from the development of suitable clothing for Arctic use to studies of cold-weather starting and running of engines.

**Establishment of a Technical Development Committee on Upper Atmosphere and Interplanetary Navigation** by the Institute of Navigation has just been announced by Rear Adm. G. G. McLintock, the Institute's president. Co-chairmen of the new committee are Paul Rosenberg, president of Paul Rosenberg Associates, of New York, and Samuel Herrick, professor of astronomy, University of California at Los Angeles, and the membership includes: A. G. McNish, chief of the Basic Ionosphere Research Section, National Bureau of Standards; Maj. R. A. Trenkle, First Experimental Guided Missiles Group, Eglin Field, Florida; John C. Bellamy, director, Cook Research Laboratories, Chicago; and Frederick Franklin, Oak Ridge Laboratories. The co-chairmen, in a statement issued last week, point out that advances in rocket engineering and the possibility of using atomic power for propulsion purposes "make it feasible to foresee the propulsion of an uninhabited projectile into space beyond the earth's atmosphere." For the time being, however, attention will be devoted to a study of the purely navigational aspects of interplanetary travel.

**An up-to-date list of all national standards** approved by the American Standards Association, published late

last month, is now available free of charge from the Association's offices at 70 East 45th Street, New York City 17.

**Rohrer, Hibler and Replogle**, a firm which numbers approximately 30 full-time psychologists who are serving as psychological counsel to management in some 176 corporations in this country and the British Commonwealth, has recently announced the following changes with respect to its staff: J. Elliott Janney, formerly secretary of the firm, is now partner in charge of Research and Development, with offices at 520 Terminal Tower, Cleveland 13, Ohio. At the same address, Paul J. Brouwer has assumed the position of regional director, and Lynde C. Steckle, that of staff psychologist, while George Spache has been appointed staff psychologist in the New York Office. In addition to the home office in Chicago and the Cleveland and New York branches, the firm maintains branches in Dallas and Los Angeles.

## Make Plans for—

**National Gastroenterological Association**, 13th annual convention, June 7-10, Hotel Pennsylvania, New York City.

**American Neurological Association**, June 14-16, Claridge Hotel, Atlantic City, New Jersey.

**American Dairy Science Association**, 43rd annual convention, June 14-16, University of Georgia, Athens.

**American Society for Engineering Education**, June 14-18, University of Texas, Austin.

**Mycological Society of America**, annual foray, June 15-17, Biological Station, University of Michigan, Chesham, Michigan.

**American College of Radiology**, June 18-20, Continental Hotel, Chicago, Illinois.

**American Mathematical Society**, June 19, University of British Columbia, Vancouver.

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**AAAS**  
**Centennial Celebration**  
Washington, D. C.  
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