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THE SALT LAKE CITY MEETING OF THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCE-MENT OF SCIENCE

By invitation of the University of Utah, the Pacific Division of the American Association for the Advancement of Science and associated societies will hold their seventeenth annual meeting at Salt Lake City. Unusually attractive rates have been offered by the railways for members proposing to attend the meeting.

The sessions will commence on Monday, June 12. In the afternoon a series of reviews pertaining to the progress of scientific research will be presented. The subjects and authors are: Meteorology, H. H. Kimball, Harvard University; Geology and Seismology, Eliot Blackwelder, Stanford University; Astronomy and Astrophysics, R. G. Aitken, Lick Observatory; Chemistry in Relation to Medicine, Chauncey D. Leake, University of California.

Problems of major interest and the most noteworthy accomplishments in each of these fields will receive attention.

The morning of Tuesday, June 13, is to be devoted to a symposium on "Scientific Problems of the Great Salt Lake." The subjects selected for consideration will be presented as follows:

"The Ancestry of Great Salt Lake," F. J. Pack, professor of geology, University of Utah.

- "Climatological and Hydrological Problems," T. C. Adams, associate professor of civil engineering, University of Utah.
- "Chemical Deposits and Problems," T. B. Brighton, professor of metallurgy, University of Utah.
- "Animal Life and Relations," R. V. Chamberlin, professor of zoology, University of Utah.
- "Observations on Artemia," E. G. Martin, professor of physiology, Stanford University.
- "Plant Life and Relations," W. P. Cottam, professor of botany, University of Utah.

The general addresses to be delivered before the division at large are scheduled for the evenings of June 12, 13 and 14. The first will be by Dr. W. F. Durand, president of the Pacific Division, on "The Development of our Knowledge of the Laws of Fluid Mechanics"; that of Tuesday evening will be given by Dr. H. H. Kimball, of the Blue Hill Observatory, Harvard University, on "Meteorology—Ancient and Modern; its Development and Applications," and that of Wednesday evening, June 14, by Professor Bailey Willis on "Earthquake Habits of Many Lands."

June 15 will be the closing date for all the organizations participating in the meeting, except the American Physical Society and the Astronomical Society of the Pacific, whose programs extend over June 16.

Members of associated societies are reminded that the titles of papers to be presented at the meeting must be submitted as soon as possible for inclusion in the program.

SCIENTIFIC NOTES AND NEWS

WILLIAM HENRY HOLMES, chief of the Bureau of American Ethnology from 1902 to 1910, who retired last June as director of the National Gallery of Art, died on April 20 at the age of eighty-six years.

AT the meeting of the American Philosophical Society held in Philadelphia on April 21, the following members were elected. *Members resident of the United States*: Donald H. Andrews, Baltimore; William Bell Dinsmoor, New York; Edward Vermilye Huntington, Cambridge; B. E. Livingston, Baltimore; Edward Martin, Media; Marshall S. Morgan, Philadelphia; G. Kingsley Noble, New York; Francis Randolph Packard, Philadelphia; Samuel Price Wetherill, Jr., Haverford; Westel Woodbury Willoughby, Baltimore, and James Thomas Young, Philadelphia. *Foreign residents*, James Colquhoun Irvine, St. Andrews, Scotland, and Max Planck, Berlin, Germany.

AT the recent charter day exercises of the University of California, the doctorate of laws was conferred on Dr. William E. Ritter, emeritus professor of zoology at the university, emeritus director of the Scripps Institution of Oceanography and honorary president of Science Service.

THE honorary degree of LL.D. was conferred at the graduation ceremony on March 29 of the University of Aberdeen on Dr. D'Arcy Wentworth Thompson, professor of natural history at the University of St. Andrews, "in recognition of the fact that he had played a leading part in guiding the scientific investigation of an industry of immense importance to the city of Aberdeen, since the time when, in 1897, as a British delegate, he had attended the Behring Seas Fisheries Conference."

THE University of St. Andrews will confer on June 30 the honorary doctorate of laws on Professor Carl Neuberg, director of the Kaiser Wilhelm Institute for Biochemistry, Berlin, and editor of the *Biochemische Zeitschrift*, and on R. S. Pearson, director of the Forest Products Research Laboratory, Princes Risborough.

ROYAL MEDALS of the Royal Geographical Society have been awarded as follows: The Founder's Medal to Mr. J. M. Wordie, for the work he has done in polar exploration from the voyage of the *Endurance* in the Weddell Sea in 1914–17 to the present day, and the Patron's Medal to Professor Erich von Drygalski, for his researches in glaciology, both in the Arctic and the Antarctic regions. The Murchison Grant has been awarded to Dr. Noël Humphreys, for his expeditions in Ruwenzori; the Back Grant to Miss Freya Stark, for her journeys in Luristan; the Cuthbert Peek Grant to Dr. L. S. B. Leakey, for his studies on climatic changes in East Africa; and the Gill Memorial to Khan Sahib Afraz Gul Khan, Survey of India, for his frontier and trans-frontier explorations and surveys.

DR. WILHELM HIS, professor of internal medicine at Berlin, has been awarded the silver Carl Ludwig Medal for 1933, which is given every year for outstanding services in research on the circulation.

DR. ROSCOE W. THATCHER, who resigned as president of the Massachusetts State College on account of ill health in September, 1932, and has since been on leave of absence in Florida, expects shortly to return to the college where he has been appointed to a research professorship.

DR. CARL EINAR HILLE, associate professor of mathematics at Princeton University, has been appointed professor of mathematics at Yale University. Dr. Hille is a fellow of the American Academy of Arts and Sciences and managing editor of the Annals of Mathematics.

AT Harvard University, Dr. William Caspar Graustein has been promoted to a professorship and Dr. Marshall Harvey Stone, of Yale University, has been appointed associate professor of mathematics and tutor in the division. Dr. George Bogdan Kistiakowsky has been promoted to an associate professorship of chemistry, and Dr. Bartholomeus Jan Bok, Willson teaching fellow, has been made assistant professor and tutor in the division of the physical sciences.

DR. LAWRENCE R. BLINKS, of the Rockefeller Institute for Medical Research, has been appointed associate professor of plant physiology in the department of botany of Stanford University.

Dr. HERVEY W. SHIMER, professor of paleontology at the Massachusetts Institute of Technology, has been made acting head of the department of geology to succeed Dr. Waldemar Lindgren, whose retirement was recently announced.

THE nomination of Commander R. S. Patton as head of the U. S. Coast and Geodetic Survey has been sent to the Senate by President Roosevelt. Commander Patton has been connected with the survey since 1904 and became director under the Hoover administration in 1929.

ACCORDING to an Associated Press dispatch Professor James Franck, who, jointly with Gustav Hertz, was awarded the Nobel Prize in physics in 1925, presented his resignation from the University of Göttingen to the German Ministry of Education on April 18. He is reported to have said: "I have requested my superior authorities to release me from office but will endeavor to continue scientific work in Germany."

A WIRELESS dispatch to *The New York Times* reports that the supervising board of the German Bureau of Standards, of which Professor Albert Einstein long has been a member, has expelled him on the ground that the "attitude he has taken toward the national renaissance of Germany has made his remaining a member impossible."

AN Associated Press dispatch from Berlin dated April 21 states that the German Government has appointed Gottfried Feder as president of the Reich's Technical Society, giving him control of the eighty professional scientific organizations which it represents.

DR. VERN O. KNUDSEN, associate professor of physics at the University of California at Los Angeles, has been nominated for president of the Acoustical Society of America. The annual meeting of the society will be held in Washington on May 1 and 2.

THE following officers of the Society for Experimental Biology and Medicine have been elected for the ensuing year: *President*, A. R. Dochez; *Vice-president*, E. L. Opie; *Secretary-treasurer*, A. J. Goldforb; *Additional Councilors*, C. R. Stockard and G. B. Wallace; *Nominating Committee*, F. R. Sabin, *chairman*, T. Addis, W. R. Bloor, R. Chambers, W. T. Longeope, D. Marine, A. N. Richards, C. R. Stockard, C. J. Wiggers.

OFFICERS of the American Society of Biological Chemists for 1933-34 have been elected as follows: *President*, William M. Clark, the Johns Hopkins University; *Vice-president*, Howard B. Lewis, the University of Michigan; *Secretary*, Henry A. Mattill, the State University of Iowa; *Treasurer*, Cyrus H. Fiske, Harvard Medical School; *Councilors*, Harold C. Bradley, University of Wisconsin; Paul E. Howe, U. S. Department of Agriculture; William C. Rose, University of Illinois.

DR. A. O. RANKINE, professor of physics at the Imperial College of Science and Technology, was elected president of the Physical Society, London, at the annual meeting on March 17. Dr. William Wilson, Hildred Carlile professor of physics in the University of London, was elected vice-president.

AT the recent annual meeting of the Geological Society of London, Sir Thomas Holland was elected president and Professor E. J. Garwood, J. F. N. Green, W. Campbell Smith and Professor W. W. Watts were elected vice-presidents.

RECENT awards from the Elizabeth Thompson Science Fund have been made to Dr. S. W. Britton, University of Virginia, \$150 additional, to be used for the purchase of chemicals and other supplies necessary in his study of the function of the adrenal glands, and to Dr. Erwin Chargaff, Hygienische Institut, University of Berlin, \$100, for aid in his investigations dealing with the chemistry of pathogenic bacteria, especially with the lipoids and carbohydrates of the acid-fast group. The trustees of the Elizabeth Thompson Science Fund meet ordinarily during the last ten days of the months of February, May and November. Applications for grants should be sent well in advance of the meeting to the secretary of the fund, Dr. Alfred C. Redfield, the Biological Institute, Divinity Avenue, Cambridge, Massachusetts.

EIGHTEEN fellowships in medicine, including two renewals, for study in the United States and Europe during 1933-1934, were awarded at the spring meeting of the Medical Fellowship Board of the National Research Council, Washington, D. C., of which Dr. G. Carl Huber, dean of the Graduate School, University of Michigan, is the chairman. A list of the successful candidates follows: Caroline C. Bedell, Maurice Brodie, James K. W. Ferguson, Earl W. Flosdorf, Louis S. Goodman, William G. Gordon, Arthur T. Hertig, Joseph Hughes (renewal), Thomas H. Jukes, James M. Orten, Alwin M. Pappenheimer, Wesley T. Pommerenke, Clarence F. Schmidt, Jr. (renewal), Henry G. Schwartz, Randall L. Thompson, William McC. Tuttle, Arthur J. Vorwald and Samuel J. Weinberg. The 1933 fall meeting of the board will be held in September and applications to be considered at that time should be filed with the Washington office of the Medical Fellowship Board on or before August 1.

An award of the Charles A. Coffin Foundation was recently made to Dr. Sanford A. Moss, of the General Electric Company, not Dr. Charles A. Moss, as recently reported in SCIENCE.

PROFESSOR RAYMOND L. WILDER, of the department of mathematics of the University of Michigan, has leave of absence during the next academic year to enable him to continue his special work for a year at the Institute for Advanced Study at Princeton.

DR. LEROY ABRAMS, professor of botany and di-

rector of the Dudley Herbarium at Stanford University, sailed recently from San Francisco. He expects to study during the summer in London, Paris and Geneva.

LEAVE of absence for the next academic year has been granted by Princeton University to Professor Howard Crosby Warren, of the department of psychology, and to Professor Warner Fite, of the department of philosophy, and for the first term to Professor Raymond S. Dugan, of the department of astronomy.

THE Edgar Fahs Smith Memorial Lecture will be delivered at the University of Pennsylvania on the evening of May 8 at 8:15, by Dr. James B. Conant, professor of chemistry at Harvard University. The title of his lecture will be "A Study of Extremely Weak Acids and Bases."

THE Faraday Lecture of the Chemical Society was delivered at the Royal Institution on March 29 by Professor Peter Debye, of the University of Leipzig. He took as his subject "The Relations between Stereochemistry and Physics."

PROFESSOR H. E. ARMSTRONG will deliver the Huxley Memorial Lecture at the Imperial College of Science and Technology, South Kensington, on May 4. His subject will be "Our Need to Honor Huxley's Will."

ON the occasion of the visit of Professor N. Bohr, of Copenhagen, to Pasadena for two weeks beginning on May 15, the staff of the Norman Bridge Laboratory of Physics of the California Institute of Technology plans to conduct a symposium on the general subject of the physics of nuclei and high energy transformations. Professor Bohr will deliver four lectures on the foundations of atomic mechanics, and Professor E. O. Lawrence, of the University of California, will speak on the artificial disintegration of nuclei. Other phases of recent work in this field will be discussed by various members of the staff, including Professor P. S. Epstein, Professor C. C. Lauritsen. Professor J. R. Oppenheimer, Dr. C. D. Anderson, Dr. H. V. Neher and Dr. R. M. Langer. It is planned to have lectures at 4:30 p. m. five days weekly. Professor Bohr probably will speak on Wednesdays and Fridays. A cordial invitation is extended to all who may be interested to attend and to take part in the discussions.

THE North Dakota Chapter of Sigma Xi, University of North Dakota, on March 30, had as their guest speaker Dr. G. W. Stewart, of the University of Iowa. He delivered three addresses. In the forenoon his convocation topic was "Ordinary Made Extraordinary"; at the noon luncheon he made a plea for better teaching of college subjects, and at the dinner meeting, he discussed what civilization may expect from science in the future.

THE New England Association of Chemistry Teachers and the Eastern Association of Physics Teachers held a joint meeting on April 8 in the new Thompson Science Building of the Phillips Exeter Academy, Exeter, New Hampshire. This new building, the gift of the late Colonel William Boyce Thompson, of Yonkers, New York, and a graduate of the academy in the class of 1890, embodies the latest equipment and facilities for teaching chemistry and physics.

THE sixth annual scientific meeting, and twenty-

seventh annual South African Medical Congress, will be held in Capetown from September 25 to 30, under the presidency of Mr. E. Barnard Fuller. The work of the congress will be divided among five sections as follows: medicine, surgery, gynecology and obstetrics, public health and special subjects (six subsections). At the three plenary sessions the topics for general discussion are: diet in relation to health in South Africa; prevention of maternal mortality in urban and rural areas in South Africa, and medico-legal problems of general practise. An exhibition of specimens of medical interest from a historical point of view is being arranged in conjunction with the trades exhibition.

DISCUSSION

THE HIGH COST OF GERMAN MEDICAL AND SCIENTIFIC PERIODICALS

THE financial problem of literature in the scientific fields, especially those of medicine and the biological sciences, has for some time been a matter of concern to those interested in educational institutions and in providing facilities for investigators engaged in scientific work. Fortunately, in most countries this type of literature has not been extensively commercialized. Wise editorial policies and economical management have prevented prices from becoming exorbitant. This has not, however, been equally true of all countries, notably Germany. Much of the German scientific literature appears in periodicals which, while containing excellent work, are since the war published at absolutely prohibitive prices. The high prices of German periodicals have affected all scientific libraries, and especially medical libraries, since the increase in prices has been the largest in the field of medicine, biology and chemistry. The Medical Library Association has been concerned for some time over this situation, which has been growing progressively worse until the subscription rates for some of these journals have now reached \$90.00 to \$173.00 a year.

Several interesting articles on this subject have appeared. Dr. Raymond Pearl,¹ of Johns Hopkins University, Mr. Charles H. Brown,² of Iowa State College Library, Colonel Fielding H. Garrison,³ of the Welch Medical Library, Mr. Alfred L. Robert and Mr. Hans Schaltenbrand,⁴ of the College of Physicians

and Surgeons in New York, Dr. Wilfrid Bonser,⁵ Librarian of the University of Birmingham, England, and others⁶ have made excellent studies regarding the cost of scientific periodicals, and the dangers inherent in some of the present policies.

The Medical Library Association appointed a committee, consisting of Colonel Fielding H. Garrison, Mr. Alfred L. Robert and Mrs. Eileen R. Cunningham, to investigate the high cost of German medical periodicals, and see what might be done to alleviate this situation. This study has brought out several interesting facts. It is evident that in a large or mediumsized medical library in this country, two thirds or even more of the total annual appropriation for current periodicals is expended on German periodicals, issued chiefly by one or two firms, leaving less than one third of the funds available to be used for the scientific output of all other nations, including the United States and many of the more reasonably priced German publications. This is obviously an absurd situation. Appeals to these German publishers have been met with promises to reduce the volume output, but so far prices have increased and nothing constructive has been accomplished.

The fact that German scientific publications do not usually receive financial aid from foundations and scientific societies undoubtedly renders it more difficult for publication cost to be as low as in other countries, but there seems to be no justification for prices which vary from five to eight, or more, times as much as those of any other nation. It seems difficult to explain these publishers' prices on a cost plus basis. No definite yearly subscription price is announced;

¹ Raymond Pearl, "Cost of Biological Books in 1928." Quarterly Review of Biology, 3: 600-603, 1928.

<sup>Quarterly Leview of Biology, 3: 000-003, 1928.
² Charles H. Brown, ''A Hazard to Research,'' Journal of Higher Education, 2: 420-426, 1931.
³ Fielding H. Garrison, ''Dangers Besetting the Literature of Recent Medicine.'' Festschrift zur Feier des 60. Geburtstages Max Neuburger, Wien, 1928. ''The High Cost of Current Medical Periodicals.'' Bulletin of the Maxied Library Academic Content of the Maxied Library Content Content Periodicals.'' Bulletin of the Maxied Library Content Content Periodicals.'' Bulletin of the Maxied Library Content Periodical Periodicals.'' Bulletin Of the Maxied Content Periodicals.'' Bulletin Periodicals.'' Bulletin Periodicals.'' Bulletin Of the Periodical Periodicals.'' Bulletin Periodicals</sup> Medical Library Association, n. s., 20: 165-169, 1932. 4 Alfred L. Robert and Hans Schaltenbrand, "The

Comparative Cost of Medical Journals." Bulletin of the Medical Library Association, 20: 140-155, 1932. ⁵ Wilfrid Bonser, "The Cost of German Biological

Publications." Library Association Record, n. s. 6: 252-256, 1928.

^{6&}quot;The Cost of German Medical Journals." Editorial. Canadian Medical Association Journal, 27: 63-64, 1932.