

## NOTES

In addition to those of the editorial staff of the Bulletin, the following persons have assisted the editors, either by refereeing papers or by advising concerning papers offered for publication in the present volume: A. A. Albert, W. L. Ayres, E. T. Bell, H. F. Blichfeldt, R. D. Carmichael, A. B. Coble, P. H. Daus, L. E. Dickson, L. L. Dines, E. L. Dodd, Tomlinson Fort, T. C. Fry, W. L. Hart, T. R. Hollcroft, E. V. Huntington, W. A. Hurwitz, A. J. Kempner, W. A. Manning, A. D. Michal, C. N. Moore, Virgil Snyder, E. B. Stouffer, D. J. Struik, J. D. Tamarkin, H. S. Vandiver, G. E. Wahlin, Warren Weaver, J. H. M. Wedderburn, G. T. Whyburn, W. M. Whyburn, Norbert Wiener, R. L. Wilder, W. A. Wilson, B. C. Wong. The editors desire publicly to recognize this service.

The British Association for the Advancement of Science will meet in London in September, 1931. This will be the Association's centenary meeting.

The Planck gold medal has been awarded to Professor Niels Bohr, of the University of Copenhagen.

The Königsberger Gelehrte Gesellschaft announces the following subject for its prize to be awarded in January, 1932: *The discussion, by means of both function-theoretic and geometric (in particular, topological) methods, of the topological nature of the configurations formed by  $n$  analytic functions of  $n$  complex variables.* Competing memoirs should be sent to that society before October 15, 1931.

Professor Werner Heisenberg, of the University of Leipzig, has been elected a member of the Saxon Academy of Sciences in the section of mathematical physics.

Professor Arthur Korn, of the Charlottenburg Technical School, has received the honorary degree of doctor of engineering from the Breslau Technical School.

Charles Maurain, dean of the Faculty of Sciences of the University of Paris, has been elected member of the Paris Academy of Sciences in the section of astronomy, as successor to the late H. Andoyer.

Professor Max Planck has been elected president of the Kaiser-Wilhelm Gesellschaft zur Förderung der Wissenschaften.

Professor Arnold Sommerfeld, of the University of Munich, has been elected a foreign member of the Hungarian Academy of Sciences.

The University of Paris has conferred an honorary doctorate on Professor P. Zeeman, of the University of Amsterdam.

The University of Dublin has conferred an honorary doctorate on Mr. Edward Tyler, for his investigations in aerodynamics.

Princeton University has conferred an honorary doctorate on President K. T. Compton, of the Massachusetts Institute of Technology.

The following have been appointed National Research Fellows in mathematics for the academic year 1930-31 (this list includes reappointments, and may not be complete): R. P. Agnew, A. C. Berry, Leonard Carlitz, L. W.

Cohen, C. C. Craig, H. T. Engstrom, D. H. Lehmer, S. B. Littauer, N. H. McCoy, E. J. McShane, Gordon Pall, W. T. Reid, N. E. Rutt, W. J. Trjitzinsky, Jacob Yerushalmy.

Mr. O. J. Farrell has been appointed Rockefeller International Research fellow in mathematics.

Under the will of the Norwegian statesman Christian Michelson, a Research Institute has been created at Bergen, Norway, to which scientists may be called for periods of five years. Professor T. Skolem, of the University of Oslo, has been designated for the mathematical sciences.

Dr. Hans Falke hagen, of the University of Cologne, has been promoted to an associate professorship of theoretical physics.

Professor H. Fehr, of the University of Geneva, editor of *L'Enseignement Mathématique*, has been appointed rector of the University.

Dr. S. Mandelbrojt, of the University of Clermont, has been promoted to a professorship of rational and applied mechanics.

Professor Adalbert Prey, of the German University of Prag, has been appointed professor of theoretical physics at the University of Vienna.

Professor Hermann Weyl, of the Zurich Technical School, has been appointed professor of mathematics at the University of Göttingen, as successor to Professor David Hilbert, retired.

Dr. Heinrich Wieleitner has been appointed to an honorary professorship at the University of Munich.

Mr. Alexander Oppenheim has been appointed lecturer in mathematics at the University of Edinburgh.

Mr. J. G. Semple, of the University of Edinburgh, has been appointed professor of mathematics at Queen's University, Belfast.

Associate Professor Karl Menger, of the University of Vienna, has been appointed visiting lecturer at Harvard University for the first semester and at Rice Institute for the second semester of the present academic year. At Rice Institute he will give an undergraduate course on Metrical Geometry and a graduate course on Theory of Dimension and Curve Theory.

Professor Ella E. Bernstorff, of Friends University, Wichita, has been appointed dean of women at the State Teachers College, California, Pa.

Miss Helen Calkins has been appointed professor of mathematics at the Pennsylvania College for Women, Pittsburgh.

Professor E. U. Condon, of the University of Minnesota, has been appointed associate professor of physics at Princeton.

Dr. H. D. Curtis, director of the Allegheny Observatory, has been appointed director of the new observatory and head of the department of astronomy at the University of Michigan.

Dr. Nat Edmonson, Jr., of Rice Institute, has been appointed assistant professor of mathematics at the Texas Technological College.

Assistant Professor J. D. Eshleman, of the University of Pennsylvania, has been appointed acting professor of mathematics at Heidelberg College, Tiffin, Ohio.

Dr. E. K. Haviland has been appointed assistant professor of mathematics at Lincoln University.

Dr. Lena J. Hawks has been appointed head of the department of mathematics at the Georgia State Womans College.

Mr. E. R. Heineman has been appointed assistant professor of mathematics at the Texas Technological College.

Dr. A. W. Hobbs, professor of applied mathematics at the University of North Carolina, has been appointed dean of the College of Liberal Arts of that University.

Professor Alfred Hume, of the University of Mississippi, has been appointed professor of mathematics at Southwestern University, Memphis.

Miss Myra I. Johnson has been appointed professor of mathematics, science, and philosophy at Southern College, Petersburg, Va.

Mr. George Karelitz, of the Westinghouse Electric and Manufacturing Company, has been appointed associate professor of mechanical engineering at Columbia University.

Assistant Professor E. G. Keller, of the University of Texas, has been appointed a mathematician of the General Electric Company.

Dr. P. W. Ketchum, of the University of Illinois, has been promoted to be associate in mathematics.

Mr. J. H. Kusner has been appointed assistant professor of mathematics at the University of Florida.

Professor Alfred Landé, of the University of Tübingen, has been appointed professor of theoretical physics at Ohio State University.

Assistant Professor H. I. Lane, of the University of South Dakota, has been promoted to an associate professorship of mathematics.

Assistant Professor Flora E. LeSturgeon, of the University of Kentucky, has been promoted to an associate professorship of mathematics.

Mr. C. A. Lovell, of the Drexel Institute, has been appointed a member of the technical staff of the Bell Telephone Laboratories.

Professor H. F. Lusk, of the College of the Pacific, has been appointed professor of engineering mathematics at Sacramento Junior College.

Dr. Dorothy McCoy has been appointed professor of mathematics at Belhaven College.

Dr. Morris Marden has been appointed assistant professor of mathematics in the Extension Division of the University of Wisconsin, at Milwaukee.

Mr. W. L. Porter, of Rice Institute, has been appointed professor of mathematics at the Texas Agricultural and Mechanical College.

Assistant Professor W. C. Risselman, of the University of Pittsburgh, has been appointed professor of mathematics at the Arizona State Teachers College, Flagstaff.

Dr. P. G. Robinson has been promoted to an associate professorship of mathematics at Iowa State College.

Dr. Vladimir Rojansky has been appointed associate professor of physics at Union College, Schenectady.

Associate Professor J. C. Slater, of Harvard University, has been appointed head of the department of physics at the Massachusetts Institute of Technology.

Mr. C. E. Smith has been appointed assistant in the Chabot Observatory.

Associate Professor F. W. Sparks has been promoted to a professorship of mathematics at the Texas Technological College.

Miss Mildred E. Taylor has been appointed professor and head of the department of mathematics at Mary Baldwin College.

Assistant Professor J. M. Thomas, of the University of Pennsylvania, has been appointed assistant professor of mathematics at Duke University.

Dr. L. H. Thomas, of Trinity College, has been appointed associate professor of theoretical physics at Ohio State University.

Dr. E. L. Thompson has been appointed assistant professor of mathematics at the Texas Technological College.

Mr. C. E. Van Horn has been appointed head of the department of mathematics at Fisk University, Nashville.

Dr. Charles Wexler has been appointed head of the department of mathematics at the Arizona State Teachers College.

Dr. G. T. Whyburn has been appointed associate in mathematics at Johns Hopkins University.

Dr. E. E. Witmer has been appointed assistant professor of physics at the University of Pennsylvania.

Dr. Kathryn Wyant has been appointed professor of mathematics at Northeastern Teachers College, Tahlequah, Oklahoma.

Dr. D. M. Yost has been promoted to an assistant professorship of chemistry at the California Institute of Technology.

The following appointments to instructorships are announced:

University of Alabama: Mr. H. S. Thurston;

University of Arkansas: Mr. Paul Cramer;

Lehigh University: Mr. F. S. Beale;

Long Island University: Mr. A. J. Smith;

United States Naval Academy: Mr. Ernest Hawkins.

Professor Robert Fricke, of the Braunschweig Technical School, died July 22, 1930.

Dr. E. B. Knobel, known especially for his editions of the star catalogues of Ptolemy and Ulugh Beg, died July 25, 1930, at the age of eighty-nine.

Professor J. Petzoldt, of the Berlin Technical School, has died at the age of sixty-seven.

Dr. A. Schur, docent at the University of Bonn, has died at the age of thirty-eight.

Mr. William John Greenstreet, for thirty-one years editor of the *Mathematical Gazette*, died June 28, 1930, at the age of sixty-nine.

Dr. H. H. Turner, Savilian professor of astronomy at Oxford University, died August 20, 1930, at the age of sixty-nine.

Father John George Hagen, S. J., director of the Vatican Observatory, died September 6, 1930, at the age of eighty-three. Father Hagen was formerly director of the astronomical observatory at Georgetown University, and was for many years a member of the American Mathematical Society.

Mr. I. H. Summers, of the engineering department of the General Electric Company, died recently. Mr. Summers was a member of the American Mathematical Society, as nominee of the General Electric Company.