

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, A. A. Bennett, B. A. Bernstein, R. D. Carmichael, E. W. Chittenden, A. B. Coble, L. E. Dickson, Jesse Douglas, Arnold Dresden, Arnold Emch, Raymond Garver, L. W. Griffiths, T. R. Hollcroft, E. V. Huntington, W. A. Hurwitz, Louis Ingold, Dunham Jackson, A. J. Kempner, E. P. Lane, C. C. MacDuffee, W. A. Manning, A. D. Michal, C. N. Moore, F. S. Nowlan, Oystein Ore, G. Y. Rainich, J. F. Ritt, J. A. Shohat, H. A. Simmons, Virgil Snyder, J. D. Tamarkin, H. S. Wall, J. H. M. Wedderburn, H. S. White, E. T. Whittaker, G. T. Whyburn, W. M. Whyburn, R. L. Wilder, W. A. Wilson, B. C. Wong. The editors desire publicly to acknowledge this service.

On the occasion of its twenty-fifth anniversary celebration, held in Bombay in December, 1932, the Indian Mathematical Society decided to issue in future two quarterlies in place of its Journal, roughly corresponding to Parts I and II of the Journal. The first of these will begin publication in 1934; in its place in 1933 will be issued the Jubilee Memorial Volume, containing an account of the Bombay Conference and the full text of the papers read there. The second quarterly, *The Mathematics Student*, has already begun publication, under the editorship of A. Narasinga Rao.

A Science Advisory Board, to cooperate with the National Research Council under the jurisdiction of the National Academy of Sciences, has been appointed by President Roosevelt to study problems of the various government departments with a view to improving coordination. President K. T. Compton, of the Massachusetts Institute of Technology, has been made chairman.

Associate Professor E. L. Mackie, of the University of North Carolina, has been elected chairman of the mathematics section of the North Carolina Academy of Sciences, and Associate Professor E. R. C. Miles, of Duke University, secretary of that section.

Madras University has established a Ramanujan Memorial Prize for an essay or thesis embodying research in any field of mathematics by a person born or domiciled in India. Competition closes December 1, 1933.

The Veneroni prize of the University of Pavia has been awarded to Dr. Mario Villa, of that University.

Cambridge University has awarded its John Winbolt prize to P. A. Lamont, of Corpus Christi College, for a dissertation on *The stresses and deformations in retaining walls of triangular section*.

Louis de Broglie has been elected a member of the Paris Academy of Sciences in the section of mechanics.

A bust of Gaston Darboux was unveiled in October, 1933, at the Lycée of Nîmes.

Professor Pieter Zeeman, of Amsterdam, has been elected a foreign associate of the Paris Academy of Sciences.

Among the American mathematicians who have been elected fellows of the Econometric Society are the following: G. C. Evans, Harold Hotelling, C. F. Roos, E. B. Wilson.

Professor Frank Schlesinger, of Yale, has been elected correspondent of the Paris Academy of Sciences in the section of astronomy.

The following have been appointed National Research Fellows in mathematics for the year 1933-34: S. F. Barber, L. M. Blumenthal, R. H. Cameron, J. L. Doob, G. A. Hedlund, M. R. Hestenes, Ralph Hull, R. D. James, D. C. Lewis, Jr., E. R. Lorch, R. S. Martin, Deane Montgomery, D. S. Nathan, M. M. Sullivan, E. W. Titt. This list includes renewals.

The following transfers in the Faculty of Sciences of the University of Paris are announced: J. Drach from the chair of analysis as applied to geometry to that of higher analysis, as successor to E. Goursat; G. Julia from the chair of differential calculus to that formerly occupied by Professor Drach; A. Denjoy from the chair of general mathematics to that formerly occupied by Professor Julia.

A chair of mathematical physics has been created at the Collège de France, for the occupancy of Professor A. Einstein.

Dr. Max Born, formerly professor of theoretical physics at Göttingen, has been appointed University lecturer in the faculty of mathematics at Cambridge.

Dr. Georg Feigl has been promoted to an associate professorship of mathematics at the University of Berlin.

Dr. C. W. Oseen, professor of mechanics and mathematical physics at the University of Upsala, has been appointed director of the newly established Nobel Institute of Physics at Stockholm.

Professor Michael Polanyi, of the Kaiser-Wilhelm Institut für Physikalische Chemie, has been appointed professor of physical chemistry at the University of Manchester.

Dr. L. Rosenhead, fellow of St. John's College, Cambridge, has been appointed professor of applied mathematics at the University of Liverpool.

Dr. Harry Schmidt, of the University of Leipzig, has been promoted to an assistant professorship.

Professor Alfred Tauber, of the University of Vienna, has retired from active service.

Dr. William Threlfall, of the Dresden Technical School, has been promoted to an associate professorship of mathematics.

Dr. J. M. Whittaker, of the University of Cambridge, has been appointed professor of pure mathematics at the University of Liverpool.

Dr. B. M. Wilson, of the University of Liverpool, has been appointed professor of mathematics at University College, Dundee, as successor to Professor J. E. A. Steggall, retired.

The following German mathematicians have been appointed visiting professors or lecturers at American colleges or universities: Dr. Felix Bernstein, of Göttingen, at Columbia University; Dr. S. Bochner, of Munich, at Princeton University; Dr. Felix Brauer, of Königsberg, at the University of Kentucky; Dr. Hans Lewy, of Göttingen, at Brown University; Dr. Emmy Noether, of Göttingen, at Bryn Mawr College; Dr. Otto Szász, of Frankfurt, at the Massachusetts Institute of Technology; Dr. Hermann Weyl, of Göttingen, at the Institute for Advanced Study.

Assistant Professor M. A. Basoco, of the University of Nebraska, has been promoted to an associate professorship of mathematics.

Dr. E. G. Bill, for many years Director of Admissions and Dean of Freshmen at Dartmouth College, has been made Dean of the Faculty at that institution. Dean Bill has also recently been appointed by President Roosevelt to a federal commission which will effect the amalgamation of the Bureaus of Immigration and Naturalization.

Dr. L. J. Briggs, head of the division of mechanics and acoustics of the United States Bureau of Standards, has been appointed director of that Bureau.

Dr. L. E. Bush, of Ohio State University, has been appointed professor of mathematics at the College of St. Thomas, St. Paul, Minn.

Professor L. L. Dines, of the University of Saskatchewan, has been appointed head of the department of mathematics at the Carnegie Institute of Technology.

Professor G. C. Evans, of the Rice Institute, has been appointed professor of mathematics at the University of California at Berkeley. He will assume his duties there in August, 1934.

Assistant Professor W. H. Gage, of Victoria College, Victoria, British Columbia, has been appointed assistant professor of mathematics at the University of British Columbia.

Dr. J. C. Hunsaker, vice-president of the Goodyear-Zeppelin Corporation, has been appointed head of the department of mechanical engineering at the Massachusetts Institute of Technology.

G. B. Karelitz, manager of the marine engineering department of the Westinghouse Electric and Manufacturing Company, has been appointed professor of mechanical engineering at Columbia University.

Dr. L. T. Moston, of Harvard University, has been appointed to the chair of mathematics at Waynesburg College.

Assistant Professor T. O. Walton, of Kalamazoo College, has been promoted to a professorship.

The following appointments to instructorships in mathematics are announced:

Brooklyn College: Dr. E. H. C. Hildebrandt;

University of Cincinnati: Dr. C. W. Mendel;

Harvard University: Dr. W. M. Rust;

Pennsylvania State College: Dr. H. L. Krall;

Trinity College: Dr. M. H. Martin (National Research Fellow at Harvard University).

Dr. Franz Eisner, of the Berlin Technical School, known for his work in hydrodynamics, died June 16, 1933, at the age of thirty-seven.

Dr. Leon Lichtenstein, editor of the *Mathematische Zeitschrift*, formerly professor of mathematics at the University of Leipzig, committed suicide on August 21, 1933. This distinguished mathematician was known for his work in hydrodynamics as well as in differential and integral equations.

Paul Painlevé, distinguished mathematician, member of the French Academy, three times premier of France, died as the result of a sudden heart attack on October 29, 1933, at the age of sixty-nine.

Professor L. J. Rogers, formerly professor of mathematics at the University of Leeds, died September 12, 1933, at the age of seventy-one.

Dr. Ernst Wölffing, formerly professor of mathematics at the Stuttgart Technical School, is dead.

Dr. E. S. Crawley, professor emeritus of mathematics at the University of Pennsylvania, died October 18, 1933, at the age of seventy-one. Professor Crawley had been a member of the American Mathematical Society since 1891.

E. W. Kopf, assistant statistician of the Metropolitan Life Insurance Company, died August 4, 1933, at the age of forty-four.