

## NOTES

The October, 1925, number of the AMERICAN JOURNAL OF MATHEMATICS (vol. 47, No. 4) contains the following papers: *Third paper on tensor analysis*, by G. Y. Rainich; *On certain symmetric sums of determinants*, by L. L. Dines; *A direct solution of systems of linear differential equations having constant coefficients*, by J. A. Nyswander; *On generalizations of the Bernoullian functions and numbers*, by E. T. Bell; *The construction of certain periodic orbits of the three body problem*, by H. E. Buchanan.

The September, 1925, number of the ANNALS OF MATHEMATICS ((2), vol. 27, No. 1) contains: *A contribution to the theory of finite differences*, by J. Kaucky; *On the asymptotic expressions of certain definite integrals*, by J. A. Shohat; *The frequency law of a function of variables with given frequency laws*, by E. L. Dodd; *The four term diophantine arccotangent relation*, by A. A. Bennett; *On Weyl's treatment of the parallel displacement of a vector around an infinitesimal closed circuit in an affinely connected manifold*, by T. Y. Thomas; *Concerning the subsets of a plane continuous curve*, by H. M. Gehman; *On the oscillations of a line near a position of equilibrium*, by F. H. Murray; *Note on trinomial congruences and the first case of Fermat's last theorem*, by H. S. Vandiver; *Definite linear dependence*, by L. L. Dines; *Least distance from a point to a linear  $(n-k)$ -space, both in a linear  $n$ -space*, by H. S. Uhler.

The London Mathematical Society has begun publication of a second periodical, in addition to its PROCEEDINGS, to be called THE JOURNAL OF THE LONDON MATHEMATICAL SOCIETY. It will contain proceedings of meetings, abstracts, obituary notices, etc., besides short original articles.

Friends of Professor Luigi Donati have published, through the firm of Zanichelli, a collection of his principal memoirs. The volume was presented to Professor Donati in July, 1925, in celebration of his fortieth anniversary as member of the faculty of the Bologna School of Engineering.

A German translation of Professor L. E. Dickson's *Algebras and their Arithmetics* will be published in Zurich in the series edited by Speiser and Fueter.

On February 1, 1926, an organization meeting was held of the Trustees of the National Research Endowment, recently established by the National Academy of Sciences; Secretary Herbert Hoover was chairman. On this occasion a declaration was made public\* reciting the purpose of this Endowment, which is to provide adequate funds for research in pure science in this country. Professor Oswald Veblen is a member of the Board of Trustees.

---

\* Printed in full in SCIENCE, (2), vol. 63, p. 158.

A new edition of Professor Charlotte A. Scott's *Modern Ideas and Methods in Plane Analytical Geometry* has been recently published by Stechert, of New York.

At the Annual Meeting of the American Association for the Advancement of Science, Professor L. H. Bailey was elected president, Professor E. V. Huntington vice-president of Section A (mathematics), Professors M. I. Pupin and F. R. Moulton members of the Executive Committee, and Professor H. H. Mitchell member of the Committee of Section A. Professor R. C. Archibald is Secretary of Section A.

At the Annual Meeting of the London Mathematical Society the following officers were elected: Professor A. L. Dixon, president; Professor S. Chapman, Mr. J. E. Littlewood, and Mr. H. W. Richmond, vice-presidents; Dr. A. E. Western, treasurer; Professor H. Hilton, librarian; and G. H. Hardy and G. N. Watson, secretaries.

Sir Ernest Rutherford has succeeded Sir Charles Sherrington as president of the Royal Society.

Professor Paul Painlevé has been appointed to succeed Professor Henri Bergson as president of the Commission for Intellectual Cooperation.

The Physico-Mathematical Society of Kazan held a celebration, on February 25, 1926, in honor of the anniversary of the discovery of non-euclidean geometry by Lobachevsky. On this occasion steps were taken to resume the awards of the Lobachevsky prize; details as to the competition will be announced later.

The Paris Academy of Sciences announces the award of the following prizes for 1925: the Francœur prize to Georges Valiron; the Montyon prize in mechanics to René Risser, for his *Essai sur la théorie des ondes par émergence*; the Poncelet prize in mechanics to Denis Eydoux, for his work in hydraulics; the Valz prize to V. Michkovitch, for his work in stellar statistics; the Montyon prize in statistics to Maurice Fréchet, for his work in the theory of probability, with honorable mention for Maurice Halbwachs, for his *Le Calcul des Probabilités à la Portée de Tous* (written in collaboration with Professor Fréchet); the Jeanbernat-Doria prize to Georges Bouligand, for his work in harmonic functions; the Petit d'Ormy prize in mathematics to Jules Drach for his mathematical work; the Saintour prize to Arnaud Denjoy for his work on the calculus of primitive functions; the Lalande prize to George Fournier. The Bordin prize was not awarded, and the subject for 1925, *Extension of the theory of analytic functions*, was carried forward to 1926; the question announced for 1927 is *To perfect, in some important aspect, the theory of the dynamics of non-holonomic systems*.

The Royal Academy of Belgium has awarded its prize for 1925, for an important contribution to infinitesimal geometry, to Professor W. C. Graustein, of Harvard University, for his memoir entitled *Méthodes invariants dans la géométrie infinitésimale des surfaces*.

The Società Italiana delle Scienze has awarded its gold medal to Professor Enrico Bompiani, for his mathematical work.

The Nobel prize in physics for 1924 has been awarded to Professor K. M. G. Siegbahn, of the University of Upsala, for his work in spectrum analysis.

The Royal Astronomical Society has awarded its gold medal to Professor Albert Einstein.

The Royal Society has awarded its Copley medal to Professor Albert Einstein, for his theory of relativity and his contributions to the quantum theory, and its Sylvester medal to Professor A. N. Whitehead, for his researches on the foundations of mathematics.

The third annual prize of the American Association for the Advancement of Science has been awarded to Professor D. C. Miller, of the Case School of Applied Science, for his address on *The Michelson-Morley ether drift experiment, its history and significance*, this being the presidential address of the American Physical Society, presented at a joint session of that Society with the Association at the Kansas City meeting.

Professor Adrien Pouliot, of Laval University, has received from the Government of the Province of Quebec a prize of \$3600, to be used for mathematical study in Europe.

On December 11, 1925, a celebration was held at the University of Leyden in honor of the fiftieth anniversary of the doctorate of Professor H. A. Lorentz. On this occasion a fund was established, to be called the Lorentz fund for the advancement of theoretical physics.

On April 24, 1926, the Berlin Mathematical Society will hold a celebration in memory of Felix Klein.

Professor F. Enriques has been elected a member of the Accademia dei Lincei.

The University of Paris has conferred honorary doctorates on Sir Ernest Rutherford and Professor Charles de la Vallée Poussin.

Professor L. E. Dickson has been elected an honorary member of the Union of Mathematicians and Physicists of Czecho-Slovakia.

Professor R. A. Millikan has been elected correspondent of the Paris Academy of Sciences, in the section of physics.

Hampden Sidney College has conferred an honorary doctorate on Professor J. E. Williams, of the department of mathematics of the Virginia Polytechnic Institute.

The following appointments to Guggenheim Fellowships\* are announced: Professor E. P. Lane, of the University of Chicago, for a comparison of American and Italian methods in projective differential geometry; Professor E. B. Stouffer, of the University of Kansas, for research in projective differential geometry; Professor Norbert Wiener, of the Massachusetts Institute of Technology, for the study of certain topics forming extensions of the theories of Fourier series and Fourier integrals.

Professor Karl Fromme, of the department of theoretical physics and geodesy at the University of Giessen, has retired.

---

\* See this BULLETIN, vol. 31, p. 471.

Associate Professor G. Jaffe, of the University of Leipzig, has been appointed professor of mathematics at the University of Giessen.

Associate Professor Karl Kommerell, of the University of Tübingen, has been promoted to a full professorship of mathematics.

Professor R. von Lilienthal, of the University of Münster, has retired from active service.

Dr. G. Wiarda, of the Dresden Technical School, has been promoted to an associate professorship.

Professor R. Birkeland, of the Technical School at Drontheim, has been appointed to a professorship at the University of Oslo. He is succeeded at Drontheim by Professor Viggo Brun.

Dr. Guillaume Bigourdan, of the Paris Observatory, has retired, with the title "honorary astronomer."

Professor D. Eydoux, of the Ecole des Ponts et Chaussées, has been appointed director of the Ecole Polytechnique.

Dr. R. Thiry, of the University of Strassbourg, has been promoted to a professorship of mathematics.

Dr. A. C. Aitken and Mr. S. W. P. Steen have been appointed lecturers in mathematics at the University of Edinburgh.

Messrs. E. G. Dymond and T. G. Room have been elected fellows in mathematics at St. John's College, Cambridge.

Mr. F. G. G. A. Marraine has been appointed assistant lecturer in mathematics at the University of Manchester.

The following 27 doctorates with mathematics or mathematical physics as major subject were conferred by American universities during 1925; the university, month in which the degree was conferred, minor subject (other than mathematics), and title of dissertation are given in each case, if available.

Ethel L. Anderton, Yale, June, *Bioche curve pairs*.

Clifford Bell, California, December, chemistry, *The triangles in- and circumscribed to the quartic curves of deficiency zero*.

T. L. Bennett, Illinois, July (date of examination), physics, *Mapping by means of linear systems of curves invariant under Cremona involutions*.

H. W. Brinkmann, Harvard, February, *Contributions to the theory of Riemann spaces*.

P. A. Caris, Philadelphia, June, *A solution of the quadratic congruence, modulo  $p$ ,  $p = 8n - 1$ ,  $n$  odd*.

M. G. Carman, Illinois, May (date of examination), theoretical physics and theoretical and applied mechanics, *Expansion problems in connection with homogeneous linear  $q$ -difference equations*.

E. F. Cox, Cornell, September, physics, *The polynomial solutions of the difference equation  $af(x+1) + bf(x) = \varphi(x)$* .

H. M. Gehman, Pennsylvania, February, *Concerning the sub-sets of a plane continuous curve*.

V. G. Grove, Chicago, September, *A theory of a general net on a surface*.

R. W. Hartley, Pennsylvania, June, *Determination of the ternary collineation groups whose coefficients lie in the  $GF(2^n)$* .

D. L. Holl, Chicago, September, *Viscous fluid motion in eccentric cylinders.*

J. W. Hurst, Illinois, August (date of examination), physics and astronomy, *The classification of ternary algebras.*

Samuel Jacobson, Yale, June, mathematical physics, *Temperature radiation and thermal equilibrium.*

Anna M. M. Lehr, Bryn Mawr, June, physics, *The plane quintic with five cusps.*

R. G. Lubben, Texas, June, philosophy, *The double-elliptic case of the Lie-Riemann-Helmholtz-Hilbert problem of the foundations of geometry.*

A. J. Maria, Rice Institute, June, *Functions of plurisegments.*

R. M. Mathews, Illinois, April (date of examination), physics, *Cubic curves and desmic surfaces.*

L. T. Moore, Johns Hopkins, June, zoology, *Determination of the type of a tricrnodal quartic from its invariants.*

F. S. Nowlan, Chicago, September, *Arithmetics of rational division algebras of order nine.*

Echo D. Pepper, Chicago, September, *Theory of algebras over a quasi-field.*

P. G. Robinson, Chicago, June, *Surfaces with constant absolute invariants.*

Meyer Salkover, Yale, June, mathematical physics, *Bateman's extended electrodynamics and the mass of an electron.*

H. A. Simmons, Chicago, June, *The first and second variations of a double integral for the case of variable limits,*

Marcus Skarstedt, California, May, physics, *The normal quartic curve of four-space.*

V. A. Tam, Chicago, June, *Projective properties of the Moutard quadric.*

Takashi Terami, California, December, physics, *The solution of the differential equation of a vibrating membrane by successive approximations.*

L. E. Ward, Harvard, June, *Third order boundary value problems and the allied expansions.*

The following doctorate with education as major and mathematics as minor subject was conferred:

Lao G. Simons, Columbia, February, *Introduction of algebra into American schools in the eighteenth century.*

The following graduate courses in mathematics are announced for the summer of 1926:

UNIVERSITY OF CHICAGO, first term, June 21 to July 28; second term, July 29 to September 3.—By Professor L. E. Dickson: Galois theory of equations; Division algebras; Thesis work in algebra and the theory of numbers.—By Professor H. E. Slaught: Differential equations; Elliptic integrals.—By Professor E. T. Bell: Mathematical theory of relativity; Applications of elliptic functions to the theory of numbers; Reading and research in algebra

and the theory of numbers.—By Professor Dunham Jackson: The theory of approximation by polynomials and trigonometric series; The mathematical theory of statistical correlation; Reading and research in analysis.—By Professor A. C. Lunn: Development of optical theories; Vector analysis; Reading and research in applied mathematics.—By Professor W. D. MacMillan: Analytic mechanics (dynamics); Theory of the potential.—By Professor E. P. Lane: Synthetic projective geometry; Surfaces and congruences; Reading and research in geometry.—By Mr. R. W. Barnard: Theory of functions of a complex variable.—By Professor W. L. G. Williams: Theory of equations.—By Professor H. L. Smith: Solid analytic geometry.

COLUMBIA UNIVERSITY, July 6 to August 13.—By Professor E. R. Hedrick: Theory of functions of a complex variable; Fundamental concepts of mathematics.—By Professor W. B. Fite: Differential geometry.—By Professor G. A. Pfeiffer: Calculus of variations.—By Professor K. W. Lamson: Differential equations.

CORNELL UNIVERSITY, July 5 to August 13.—By Professor D. C. Gillespie: Analysis.—By Professor Virgil Snyder: Algebraic geometry.—By Professor W. B. Carver: Projective geometry.—The following reading and research courses are also offered: By Professor C. F. Craig: Functions of a complex variable.—By Professor Snyder: Algebraic curves and surfaces.—By Professor F. R. Sharpe: Hydrodynamics and elasticity.—By Professors D. C. Gillespie and W. A. Hurwitz: Analysis.—By Professors W. B. Carver and F. W. Owens: Projective geometry.

UNIVERSITY OF ILLINOIS, June 21 to August 14.—By Professor G. A. Miller: The theory of numbers.—By Professor A. B. Coble: Algebraic geometry.—By Professor A. R. Crathorne: Functions of a complex variable; and Mathematics of statistics.—By Dr. C. C. Camp: Differential equations.—By Dr. H. R. Brahana, Advanced algebra.—By Dr. T. Bennett: Advanced analytic geometry.

UNIVERSITY OF IOWA, first term, June 14 to July 23.—By Professor C. C. Wylie: Astronomy; Mathematics of finance.—By Professor W. H. Wilson: Subject matter and teaching of mathematics.—By Professor R. P. Baker: Ordinary differential equations; Advanced algebra.—By Professor E. W. Chittenden: Advanced calculus; Abstract sets.—Second term, July 26 to August 27.—By Professor Roscoe Woods: Constructive geometry.—By Professor J. F. Reilly: Differential equations; Fourier and periodogram analysis.

JOHNS HOPKINS UNIVERSITY, June 28 to August 6.—By Professor F. D. Murnaghan: Differential geometry, metric and non-metric, and vector analysis.

UNIVERSITY OF MICHIGAN, June 21 to August 14.—By Professor W. B. Ford: Advanced calculus; Determinants and the theory of equations.—By Professor L. C. Karpinski: Teaching of algebra; History of mathematics.—By Professor J. W. Bradshaw: The figures of solid geometry.—

By Professor Peter Field: Vector analysis.—By Professor T. R. Running: Graphical methods.—By Professor H. C. Carver: Theory of probability; Finite differences; Advanced mathematical theory of statistics.—By Professor C. J. Coe: Differential equations.—By Professor L. A. Hopkins: Differential equations.—By Professor J. A. Shohat: Analytic mechanics; Theory of the potential.—By Mr. M. F. Johnson: Solid analytic geometry.

UNIVERSITY OF MINNESOTA, first term, June 18 to July 31; second term, August 2 to September 4.—The department of mathematics will offer an intensive course entitled: Selected topics in advanced mathematics. The topics for 1926 are: First term: By Professor R. W. Brink: The mathematics of small vibrations.—By Professor W. L. Hart: Limits and series.—By Professor A. L. Underhill: Differential equations.—Second term: By Professor A. L. Underhill (topic to be announced later).

OHIO STATE UNIVERSITY, first term, June 16 to July 24; second term, July 26 to August 28.—By Professor H. Blumberg: Point sets; Introduction to modern mathematics; Reading and research in analysis.—By Professor C. L. Arnold: Advanced calculus; Advanced euclidean geometry; Seminary in mathematics.—By Professor R. L. Wilder: Differential equations; Fourier's series; Reading and research in analysis situs.

UNIVERSITY OF PENNSYLVANIA, July 6 to August 14.—By Professor J. D. Eshleman: Elementary statistics.—By Professor G. H. Hallett: Advanced calculus.—By Professor O. E. Glenn: Theory of invariants.

STANFORD UNIVERSITY.—By Dr. Kelley: Differential equations.—By Dr. Harold Hotelling: Theory of functions of a complex variable.—By Professors H. F. Blichfeldt and W. A. Manning: Theory of groups; Calculus of variations.

UNIVERSITY OF TEXAS.—First term: By Dean H. Y. Benedict: Advanced calculus.—By Professor E. L. Dodd: Functions of real variables; Probability.—By Professor R. L. Moore: Theory of sets; Non-euclidean geometry.—By Professor H. J. Ettliger: Boundary value problems; Ruler and compass constructions.—By Professor H. S. Vandiver: Modern analytic geometry.—By Professor L. L. Smail: Infinite processes.—By Professor C. D. Rice: Advanced calculus.—By Professor P. M. Batchelder: Theory of equations.—By Professor Mary Decherd: Solid analytic geometry.—Second term: By Professor H. J. Ettliger: Boundary value problems; Definite integrals.—By Professor C. D. Rice: Differential geometry; Advanced calculus.—By Professor E. W. Chittenden (Iowa) Theory of sets; Professor Chittenden's second course is not yet determined.

UNIVERSITY OF WISCONSIN, June 28 to August 6.—By Professor E. B. Skinner: Theory of algebraic numbers; Irrational numbers.—Professor A. Dresden: Analytic projective geometry; Elliptic functions.—Professor H. W. March: Theory of probability; Fourier series and integrals.—Mr. E.

B. Miller; Differential equations. Dr. E. F. Allen: Theory of equations. Mathematical reading and research will be directed by Professors Dresden, March, and Skinner.

At the Massachusetts Institute of Technology, Professor Max Born, of Göttingen, delivered a course of lectures on *The lattice theory of rigid bodies* and *The structure of the atom*, from November 16, 1925, to January 23, 1926. During the spring term of 1926, Professor T. de Donder, of Brussels, will lecture on *The theory of relativity* and *The mathematical theory of electricity*.

Princeton University has received a gift of \$200,000 from Thomas D. Jones, of Chicago, to endow a chair in the department of mathematics to be called the Henry Burchard Fine professorship, in honor of Professor Fine, dean of the department of science. Professor Oswald Veblen has been appointed as the first incumbent of this professorship.

At Bowdoin College, Assistant Professor E. S. Hammond has been promoted to a full professorship of mathematics. Mr. C. T. Holmes has been appointed to an assistant professorship.

At Brown University, Professor R. G. D. Richardson, head of the department of mathematics, has been appointed dean of the graduate department, as successor to Professor Carl Barus; Assistant Professors W. R. Burwell and H. M. Morse have resigned, the latter to accept an appointment at Harvard University; and Assistant Professors M. H. Ingraham, of the University of Wisconsin, and R. E. Langer, of Dartmouth College, have been appointed to assistant professorships. Professor R. C. Archibald has been granted leave of absence for the second semester of 1925-26.

At Columbia University, Professor Jules Drach, of the chair of analysis applied to geometry at the University of Paris, has been appointed visiting professor for the academic year 1926-27; Professor Drach will lecture in English. Professor F. N. Cole will retire from active service in October, 1926.

At the University of Georgia, Professor C. M. Snelling, dean and professor of mathematics, has been elected acting chancellor, and Professor R. P. Stephens has been elected acting dean. Mr. Forrest Cumming has been promoted to an adjunct professorship of mathematics.

At Harvard University, Professor G. D. Birkhoff has been given the additional title of Cabot Fellow, and will be relieved of part of his teaching so that he may devote more time to research. Assistant Professor H. M. Morse, of Brown University, has been appointed to an assistant professorship.

At the Mississippi Agricultural and Mechanical College, Professor B. M. Walker, head of the department of mathematics, has been elected president of the college. He is succeeded as head of the department of mathematics by Associate Professor H. Fox, promoted to a full professorship. Mr. C. R. Stark has been appointed to an associate professorship.

At the University of Oklahoma, Professor S. W. Reaves has been appointed dean of the College of Arts and Sciences. Associate Professor E. D. Meacham has been promoted to a full professorship of mathematics.

At Stanford University, Professor R. L. Green has been made head of a new department of mathematics formed by the combination of the mathematics department and part of the department of applied mathematics; some of the members of the department of applied mathematics have been transferred to the new School of Engineering.

At the Texas Technological College, Mr. D. A. Flanders, of the University of Pennsylvania, has been appointed professor of mathematics; Dr. L. D. Ames, formerly of the University of Missouri, and Mr. W. M. Whyburn, of the Texas Agricultural and Mechanical College, have been appointed associate professors, and Miss Elizabeth T. Stafford, the University of Texas, has been appointed adjunct professor.

Mr. L. C. Bagby has been appointed assistant professor of mathematics at the University of South Dakota.

Professor Ethelwynn R. Beckwith, of the College for Women of Western Reserve University, has been appointed head of the department of mathematics at Milwaukee-Downer College.

Associate Professor J. W. Campbell has been promoted to a full professorship of mathematics at the University of Alberta.

Mr. R. L. Flanders, of Norwich University, has been appointed assistant professor of civil engineering at the Oklahoma Agricultural and Mechanical College.

Dr. M. C. Foster, of Yale University, has been appointed assistant professor of mathematics at Williams College.

Assistant Professor P. H. Linehan, of the College of the City of New York, has been promoted to an associate professorship of mathematics.

Mr. A. B. Lewis, of the University of Mississippi, has been promoted to an assistant professorship of mathematics.

At the University of Chicago, Professor A. A. Michelson has resigned as executive head of the physics department; he is succeeded by Professor H. G. Gale.

Professor C. N. Mills, of the Northern Normal and Industrial School, Aberdeen, South Dakota, has been appointed head of the department of mathematics at the Illinois State Normal University.

Mr. F. A. Parisi has been appointed to an assistant professorship of mathematics at the College of St. Teresa.

Mr. D. H. Richert, of Bethel College, has been promoted to a full professorship of mathematics.

Miss Jeannette Ryno has been appointed to an assistant professorship of mathematics at Lander College.

Dr. L. L. Smail has been appointed associate professor of mathematics at the University of Texas (not assistant professor, as was erroneously announced in the November-December number of this BULLETIN).

Associate Professor Helen Tappan, of Iowa State College, has been appointed head of the department of mathematics at Western College for Women.

Professor H. W. Taylor, of Emporia College, has been appointed professor of mathematics at Southwestern College.

Dr. J. H. Taylor, of Princeton University, has been appointed assistant professor of mathematics at Lehigh University.

Dr. Frederick Wood has been appointed professor of mathematics at Georgia Wesleyan College, as successor to Professor J. C. Hinton, retired.

The following appointments to instructorships are announced:

Atlanta University, Mr. Clement Sutton;

Beloit College, Mr. L. Cothorn;

Bowdoin College, Mr. Roy Hale;

Brown University, Mr. J. H. Simester and Mr. H. S. Thurston.

Case School of Applied Science, Mr. P. D. Wilkins;

College of the City of Detroit, Mr. William Borgman and Miss Lucile Chalmers;

University of Georgia, Mr. E. M. Everett;

Georgia Wesleyan College, Miss Ruth Leonard;

Goucher College, Dr. Marian M. Torrey;

University of Illinois, Dr. R. M. Mathews;

University of Iowa, Dr. L. E. Ward;

Kansas State Agricultural College, Mr. R. C. Staley;

University of Kansas, Mr. H. K. Hughes;

University of Kentucky, Mr. D. O. Streyffeler;

Mississippi Agricultural and Mechanical College, Mr. A. Edmondson;

Northwestern University, Mr. O. E. Brown;

University of Oklahoma, Mr. J. C. Brixey, Dr. Elsie J. McFarland, and Mr. S. B. Townes;

Otterbein College, Mr. H. E. Menke;

University of Pennsylvania, Mr. W. A. Bristol, Mr. H. M. Lufkin, Mr. N. E. Rutt;

Regina College, Regina, Canada, Mr. W. H. McEwen;

South Dakota State College, Mr. G. D. Gore;

Toledo University, Mr. J. B. Winslow;

Union College, Mr. E. W. Powell;

State College of Washington, Miss Alice A. Grant;

Western College for Women, Miss Ruth Dewey;

Wheaton College, Miss Kathleen Sears.

University of Wisconsin, Mr. E. L. Mickelson.

Professor Gerhard Hessenberg died November 16, 1925, at the age of fifty-one.

Dr. Walter Kretschmer died September 22, 1925, at the age of twenty-eight.

The death is announced of Professor Hans von Mangoldt, of the Danzig Technical School.

Professor H. H. Hildebrandsson, formerly director of the Meteorological Institute of Upsala, died July 29, 1925, at the age of eight-seven.

Dr. Moritz Rethy, professor emeritus of mathematics at the Budapest Technical School, has died, at the age of seventy-nine.

Professor Carl Zsigmondy, of the Vienna Technical School, has died, at the age of fifty-eight.

Professor A. A. Friedmann, director of the Geophysical Observatory of Leningrad, died September 16, 1925, at the age of thirty-seven.

Dr. Enrico de Amicis, president of the Technical School at Chiavari, died June 22, 1925, at the age of sixty-seven.

Professor Teofilo Rietti, of the Liceo Scientifico at Cremona, died December 7, 1925, at the age of forty.

The death is announced of Professor J. Fairon, of the University of Liège.

Professor E. H. Barton, of the department of physics at University College, Nottingham, died September 23, 1925, at the age of sixty-six.

Professor Andrew Gray, retired, of the University of Glasgow, died in 1925 at the age of seventy-eight.

Charles Tweedie, formerly lecturer in mathematics at the University of Edinburgh, died in September, 1925, at the age of fifty-seven.

Mr. William Welsh, fellow of Jesus College, Cambridge, died September 12, 1925, at the age of sixty-six.

Mr. G. P. Aldrich, of the State University of Iowa, died recently. Mr. Aldrich entered the American Mathematical Society in 1925.

Mr. W. E. Heal, computer in the division of tides and currents of the United States Coast and Geodetic Survey, died October 9, 1925, at the age of sixty-nine. Mr. Heal had been a member of the American Mathematical Society since 1919.

Dr. W. H. Maltbie, attorney at law of Baltimore, died January 23, 1926. Dr. Maltbie had been a member of the American Mathematical Society since 1897.

Dr. H. W. Nichols, chief engineer in charge of radio research work for the Bell Telephone Laboratories, died November 16, 1925, at the age of thirty-nine. Dr. Nichols had been a member of the American Mathematical Society since 1918.

Professor M. T. Peed, of Emory University, died August 28, 1925. Professor Peed had been a member of the American Mathematical Society since 1908.

Professor John Phillips, of Kansas University, died May 25, 1925.