The increase in size of the *Annuaire* is due to the larger number of scientific notices and to the insertion of nearly 100 pages of advertisements. The annual proper is only eight pages longer than its predecessor.

ERNEST W. BROWN.

ERRATA.

On page 121 of the present volume of the BULLETIN, in the last line of my paper, the word *column* should be changed to *row*. The slip of my pen which produced this error is the more to be regretted as it makes Peano's theorem appear almost identical with the theorem which I had stated above, whereas the two theorems are wholly distinct from each other.

MAXIME BÔCHER.

Other errata in the present volume which have come to the attention of the editors are:—

Page 11, line 3 and line 30, *for* conformably *read* conformally.

Page 136, line 27, *for* p *read* p_{y_2}.

Page 142, line 22, *for* r_1 *read* r_1^2.

Page 158, line 15, *for* pure by *read* purely.

NOTES.

A NEW Annual Register of the AMERICAN MATHEMATICAL SOCIETY has just been published and distributed among the members. Copies of the Register may be obtained from the Secretary.

THE first (January) number of Volume II of the *Transactions* of the AMERICAN MATHEMATICAL SOCIETY contains the following papers: "Invariants of systems of linear differential equations," by E. J. WILCZYNSKI; "Divergent and conditionally convergent series whose product is absolutely convergent," by FLORIAN CAJORI; "Sets of coincidence points on the non-singular cubics of a syzygetic sheaf," by M. B. PORTER; "Note on non-quaternion number systems," by W. M. STRONG; "On the reduction of the general abelian integral," by J. C. FIELDS; "Ueber Flächen von constanter Gauss'scher Krümmung," by DAVID HILBERT; "Note

on the functions of the form $f(x) \equiv \varphi(x) + a_1 x^{n-1} + a_2 x^{n-2} + \cdots + a_n$ which in a given interval differ the least possible from zero," by H. F. BLICHFELDT.

THE January number of the *Annals of Mathematics* contains the following papers: "Extension of Hurwitz's proof for the transcendence of e to the transcendence of π," by R. E. MORITZ; "An application of elliptic functions to Peaucellier's link-work (inversor)," by A. EMCH; "Note on the geometrical treatment of conics," by C. A. SCOTT; "On two-dimensional fluid motion through spouts composed of two plane walls," by R. A. HARRIS; "On a special class of abelian groups," by G. A. MILLER; "The theory of linear dependence," by M. BÔCHER; "Brilliant points of a family of concentric spheres," by Lieut. A. HAMILTON; "Multiply perfect numbers," by D. N. LEHMER.

AT a meeting of the London Mathematical Society held on December 13, 1900, the following papers were read: Mr. A. B. BASSET: "The real points of inflexion of a curve"; Miss M. E. BARWELL: "On the conformal representation of polygons on a half plane"; Professor E. B. ELLIOTT: "The syzygetic theory of orthogonal binariants"; Mr. A. L. DIXON: "An addition theorem for hyperelliptic functions"; Professor W. BURNSIDE: "On some properties of groups of odd order, II"; Mr. R. W. HUDSON: "On discriminants and envelopes of surfaces"; Mr. H. W. RICHMOND: "Note on the inflexions of curves with double points."

THE British association for the advancement of science will hold its next annual meeting at Glasgow, beginning on September 11. Professor A. W. RÜCKER is president of the association and Major P. A. MACMAHON is president of the section of mathematical and physical sciences.

THE Paris academy of sciences proposes the following questions for its mathematical prizes to be awarded at the annual session in December, 1902:—Grand prize of the mathematical section: To perfect in an important point the application of the theory of continuous groups to the study of partial differential equations.—Bordin prize: To develop and perfect the theory of surfaces applicable on the paraboloid of revolution.

THE *Zeitschrift für Mathematik und Physik* (founded by SCHLÖMILCH) was transformed at the beginning of the present year into a journal for applied mathematics only, re-

taining, however, its former name. The editors are to be Professors R. MEHMKE, of Darmstadt, and C. RUNGE, of Hanover. There will also be an editorial committee consisting of Professors Bach, Hauck, Helmert, Klein, Lorentz, Müller, Linde, Seeliger and H. Weber.

UNIVERSITY OF GÖTTINGEN.—The following courses in mathematics are offered during the summer semester, 1901 : —By Professor D. HILBERT : Algebra, four hours ; Partial differential equations (with special regard to their applications), four hours ; Seminar on partial differential equations, two hours.—By Professor F. KLEIN : Differential geometry, four hours, with seminar, two hours.—By Professor F. SCHILLING : Analytic geometry, four hours ; Graphical statics and exercises.—By Dr. E. ZERMELO : Bessel's functions, two hours ; Introduction for physicists, two hours.—By Dr. M. ABRAHAM : Theory of potential, two hours.—By Dr. J. SOMMER : Determinants, one hour ; Spherical trigonometry, two hours.

In applied mathematics :—By Professor G. BOHLMANN : Theory of probability, two hours.—By Professor W. VOIGT, Mathematical optics, four hours.—By Professor H. LORENZ, Technical thermodynamics, two hours.

PROFESSOR CHARLES HERMITE, the venerable dean of French mathematicians, died after a brief illness at his home in Paris the 14th day of January, 1901. He was born at Dieuze, December 25th, 1822. He entered the Ecole polytechnique in 1843, for which he was prepared at the lycée Louis-le-Grand. In 1848 he was made répétiteur of analysis and entrance examiner at the Ecole polytechnique ; in 1863 he was appointed final examiner, and in 1869, professor of analysis in the same institution, in succession to Duhamel, whom he also succeeded as professor of algebra in the Faculty of sciences of Paris. In 1864 he was appointed maître de conférences at the Ecole normale. In 1856 he was elected to membership in the Paris academy of sciences as the successor of Binet.

MR. H. F. BAKER, F.R.S., has been appointed to a university lectureship in mathematics at Cambridge University.

AT the meeting of the Paris academy of sciences, December 31, 1900, Professor R. DEDEKIND, of the University of Bonn, was elected correspondent of the section of geometry.

MR. S. W. REAVES, graduate scholar in Cornell University, has been appointed instructor of mathematics at Orchard Lake Military Academy.

DR. C. N. LITTLE, professor of mathematics in Leland Stanford University, has resigned his position.

PROFESSOR G. BAUER, of the University of Munich, has been made emeritus professor of mathematics.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

ASHTON (C. H.). Plane and solid analytic geometry; an elementary text-book. New York, Scribner, 1901. 12mo. 14 + 266 pp. Cloth. $1.00

BORTOLOTTI (E.). Lezioni di calcolo infinitesimale [dettate nell'anno accademico 1899–1900 nella r. università di] Modena. Modena, Pizzolotti, 1899–1900. 8vo. 621 pp.

BÜTTNER (F.). Ein Beitrag zur Theorie der Kugelfunktionen höherer Ordnung. 8vo. 38 pp. (From Festschrift zur 325-jährigen Jubelfeier des fürstl. Stolberg'schen Gymnasiums zu Wernigerode, herausgegeben vom Lehrerkollegium der Anstalt, Leipzig, Fock, 1900.) M. 0.75

CARRONE (C.). Le congruenze del secondo ordine senza linee singolari e le loro superficie focali studiate mediante una trasformazione doppia. Catania, 1900. 8vo. 21 pp.

DOBROSERDOV (D. K.). See NERNST (W.).

FORSYTH (A. R.). Theory of functions of a complex variable. 2d edition. London, Clay, 1900. 8vo. 808 pp. 21s.

GAUSS (C. F.). Allgemeine Flächentheorie (Disquisitiones generales circa superficies curvas). (1827.) Deutsch herausgegeben von A. Wangerin. 2te Auflage. Leipzig, Engelmann, 1900. 8vo. 64 pp. Cloth. (Ostwald's Klassiker der exakten Wissenschaften, No. 5.) M. 0.80

GULDBERG (A.). On partial differential equations of the third order. Christiania, Dybwad, 1900. 8vo. 43 pp. (*Videnskabsselskabets Skrifter*, I, Math.-naturv. Klasse, No. 5.)

HALPHEN (G. H.). Traité des fonctions elliptiques et de leurs applications. Partie III: Fragments. (Quelques applications à l'algèbre et particulièrement à l'équation du 5e degré; quelques applications à la théorie des nombres; questions diverses.) Publié par les soins de la Section de Géométrie de l'Académie des Sciences. Paris, Gauthier-Villars, 1901. 8vo. Fr. 8.50