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M. F. O. LOVETT, professeur de mathématiques à l'Université de Princeton N. J., est nommé professeur d'Astronomie en remplacement de M. E. A. YOUNG, retaité.

M. W. WIRTINGER, professeur à l'Université de Vienne, est nommé Membre de l'Académie des Sciences de Vienne.

M. W. J. HUSSEY est nommé professeur d'Astronomie et Directeur de l'Observatoire de l'Université de Michigan, en remplacement de M. A. Hall qui a résigné ses fonctions.

M. St. ZAREMBA, prof. ext., est nommé prof. ord. à l'Université de Cracovie.

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## NOTES ET DOCUMENTS

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Sous ce titre nous publions des renseignements relatifs à l'organisation de l'enseignement : créations nouvelles, programmes et règlements d'un intérêt général, liste des cours des principales Universités et Ecoles supérieures, etc.

LA RÉDACTION.

### Cours universitaires.

#### ANGLETERRE

**Oxford; University.** — Mathematics. Lecture List for Michaelmas Term, begin 16 oct. 1905. — W. ESSON : Analytic Geometry of Plane Curves, 2 h.; Synthetic Geometry of Plane Curves. — E. B. ELLIOTT : Sequences and Series, 2; Elementary Theory of Numbers, 1. — A. E. H. LOVE : Magnetism and Electricity : the Mathematical Theory, 3. — H. H. TURNER : Elementary Mathematical Astronomy, 2. — H. C. PLUMMER : Practical Work, Observatory. — C. E. HASELFOOT : Theory of Equations, 1. — C. LEUDESDOFF : Projective Geometry (elementary), 3. — A. E. JOLLIFFE : Analytical Geometry, 2. — J. W. RUSSELL : Differential Calculus, 2. — R. F. McNEILE : Curve Tracing, 1. — A. L. PEDDER : Problems in Pure Mathematics, 1. — C. H. SAMPSON ; Higher Solid Geometry, 2. — J. E. CAMPBELL : Differential Equations, 2. — C. H. THOMPSON : Integral Calculus, 2. — E. H. HAYES : Analytical Statics, 3. — A. L. DIXON : Hydrostatics, 1. — H. T. GERRANS : Tridimensional Rigid Dynamics, 2. — P. J. KIRKBY : Attractions and Electrostatics, 2.

#### ÉTATS-UNIS D'AMÉRIQUE

*Cours annoncés pour l'année universitaire 1904-1905.*

**Bryn Mawr University (Pa.)**. — Professor CHARLOTTE A. SCOTT : Algebraic invariants, with applications, 2; Modern analytic geometry, 2. — Mr. J. E.

WRIGHT: Linear ordinary differential equations, 2; Higher analysis, 2. —  
 Dr ISABEL MADISON: Analytic geometry of space.

**University of California** (Berkeley Cal.). — Professor I. STRINGHAM: Quaternions, 3; Logic of mathematics, 3; Seminar, 2. — Professor G. C. EDWARDS: Differential equations, 3. — Professor M. W. HASKELL: Analytic geometry, 3; Algebraic forms and geometric transformations, 3. — Professor E. J. WILCZYNSKI: Projective differential geometry, 3. — Professor C. A. NOBLE; Calculus of variations (first half year), 3; Theory of differential equations (second half year), 3. — Professor A. W. WHITNEY; Analytic geometry of three dimensions (second half year), 3; Calculus of finite differences, 2; Theory of probabilities, 3. — Professor D. N. LEHMER: Theory of equations, 3. — Dr. T. M. PUTNAM: Synthetic geometry, 3; Theory of numbers, 3. — Dr. J. H. McDONALD: Theory of functions of a real variable, 3. — Dr. B. L. NEWKIRK: Theory of complex functions, 3.

**Cornell University** (Ithaca, New-York). — Professor L. A. WAIT: Differential calculus, 2; Analytic geometry, 3. — Professor G. W. JONES: Algebra, 3. — Professor J. Mc. MAHON: Theory of potential and spherical harmonics, 3; Mechanics, 3. — Professor J. I. HUTCHINSON: Projective geometry, 3; Infinite series and products, 2. — Professor V. SNYDER: Differential equations, 2; Algebraic twisted curves, 2. — Dr. W. B. FITE: Definite integrals, 2; Theory of functions, 3. — Dr. C. N. HASKINS: Theory of invariants, 3; Calculus of variations, 2; Differential equations, II, 2.

**University of Illinois.** — Professor S. W. SHATTUCK: Differential equations and calculus of variations, 3. — Professor A. N. TALBOT: Analytic mechanics, 4. — Professor E. J. TOWNSEND: Theory of functions of a real variable, 3; Solid analytic geometry (second semester), 3; Seminar, 3. — By Professor A. G. HALL: Potential function and spherical harmonics, 3; Determinants, 2. — Professor H. L. RIETZ: Theory of invariants and higher plane curves, 3. — Professor J. STEBBINS: Least squares (first semester), 2. — Dr. H. L. COAR: Modern geometry and algebraic surfaces, 3. — Mr. E. L. MILNE: Mathematical theory of statistics (second semester), 4.

**Indiana University.** — Professor R. J. ALEY: Algebraic invariants (fall and winter terms) 3; Theory of numbers (spring term), 3; Ordinary differential equations (fall term), 5. — Professor S. C. DAVISSON: Modern geometry (fall and winter), 2; Theory of surfaces (winter and spring), 3. — Professor D. A. ROTHROCK: Partial differential equations (fall and winter), 3; Theory of functions (winter and spring), 3. — Professor U. S. HANNA: Groups of substitutions and Galois' theory (fall and winter), 2.

**State University of Iowa.** — Professor L. G. WELD: The general theory of functions, 2; Least squares (first semester), 2; Elliptic integrals and functions (second semester), 2; Fourier's serie and spherical harmonics, 2. — Professor J. V. WESTFALL: Advanced calculus, 3; Differential equations from the standpoint of the theory of functions, 2. — Dr. E. L. DODD: Vector analysis (first semester), 2; Non-euclidean geometry (second semester), 2.

**University of Michigan.** — Professor W. W. BEMAN: Solid analytic geometry, 2; Higher plane curves (second semester); Differential equations (first semester), 3; Linear differential equations (second semester), 2; Qua-

ternions, 2 (second semester); Seminar, 2. — Professor A. ZIWET: Projective geometry, 3; Harmonic analysis, 2; Advanced mechanics (second semester), 3; Theory of potential (first semester), 3. — Professor J. L. MARKLEY: Theory of functions, 3; Advanced theory of functions, 2. — Professor J. W. GLOVER: Higher algebra, 3; Theory of annuities and insurance, 2. — Dr. A. B. PIERCE: Differential geometry, 3. — Mr. E. B. ESCOTT: Theory of numbers, 2.

**University of Missouri.** — Professor E. R. HEDRICK: Theory of functions, 3; Advanced calculus, 3; Higher analysis, 3. — Professor L. M. DEFOE: Analytic mechanics, 3; Fourier's series and potential function, 3. — Professor G. A. BLISS: Differential geometry, 3; Theory of groups, 3. — Dr. L. D. AMES: Infinite series and products, 3; Galois' theory of substitutions, 3. Mr. L. INGOLD: Theory of equations and determinants, 3; Elements of projective geometry, 3; Elements of differential equations, 3.

**University of Nebraska.** — Professor E. W. DAVIS: Theory of surfaces, 2; Pure mathematics, 2. — Professor CANDY: Differential equations, 3; Mathematical pedagogy, 3. — Professor C. ENGBERG: Theory of probability, 3 (second semester); Algebra of quantics, 3, or Higher plane curves, 2; Biometry, I, 2. — Miss I. SINCLAIR: Geometry of position, 3, or Calculus of variations, 2.

**University of Pennsylvania.** — Professor E. S. CRAWLEY: Higher plane curves, 3; Solid analytic geometry, 2. — Professor G. E. FISHER: Advanced calculus, 2; Invariants and covariants (first half year), 3; Linear differential equations (second half year), 3. — Professor I. J. SCHWATT: Theory of functions of a real variable, 3; Infinite series and products, 3. — Professor G. H. HALLET: Theory of groups, 3; Calculus of variations (first half year), 2; Lie's theory of continuous groups (second half year), 2. — Dr. B. S. EASTON: Algebra (in German), 2; Theory of higher equations, 2; Elementary divisors and group characters, 2. — Dr. F. H. SAFFORD: Curvilinear coordinates and orthogonal transformations with applications to the theory of potential, 3.

Summer session (July 5 to August 12, 1905). Each course will be given five hours per week. — Professor E. S. CRAWLEY: Theory of numbers. — Professor G. E. FISHER: Invariants and covariants. — Professor I. J. SCHWATT: Definite integrals. — Professor G. H. HALLETT: Theory of abstract groups. — Dr. F. H. SAFFORD: Differential equation.

**Syracuse University.** — Professor W. H. METZLER: Analytic geometry (first semester), 3; Modern geometry (second semester), 3; Newtonian potential and spherical harmonics, 3; General theory of functions, 3; Determinants, 3; Elliptic integrals and elliptic functions, 3. — Professor E. D. ROE: Theory of invariants and covariants, 3; Theory of substitutions, 3; Advanced calculus (first semester), 3; Differential equations (second semester), 3; Analytic mechanics, 3; Theory of equations, 2; Analytic trigonometry (first semester), 1; Determinants (second semester), 1. — Professor W. G. BULLARD: Projective geometry (first semester), 3; Higher plane curves (second semester), 3; Twisted curves and general theory of surfaces, 3.

**University of Wisconsin.** — Professor C. A. VAN VELZER: Differential

equations, 3; Analytic geometry, 3. — Professor C. S. SCHLICHTER: Theoretic mechanics, 2; Theory of probabilities, 2 (second semester); Hydrodynamics, 2. — Professor E. B. SKINNER: Geometry of three dimensions, 2; Advanced calculus, 2; Twisted curves and surfaces, 3 (first semester); Quaternions, 3 (second semester); Seminar in groups, 2. — X: Projective geometry, 2.

**Yale University** (New Haven, Conn.). — Professor BEEBE: Celestial mechanics, 2. — Professor J. PIERPONT: Elliptic functions, 2; Functions of a real variable, 2; Functions of a complex variable, 2; Analytic geometry, 2; Theory of aggregates, 1. — Professor P. F. SMITH: Continuous groups of transformations, 2. — Professor H. E. HAWKES: Algebra, 2; Advanced algebra, 2; Teachers course in geometry, 2; Differential equations, 1. — Dr. W. A. GRANVILLE: Differential geometry, 1. — Dr. E. B. WILSON: Advanced calculus, 2; Analytic mechanics, 2; Theoretical mechanics, 2; Dr. C. M. MASON: Partial differential equations, 2; Functional equations, 1. — Dr. D. R. CURTISS: Harmonics analysis, 2; Taylor's series and analytic continuation, 1. — By Mr. Taylor: Scientific computation, 1.

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## BIBLIOGRAPHIE

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L'*Encyklopädie der mathematischen Wissenschaften*, dont nous avons annoncé le plan général en son temps a été fort bien accueillie des mathématiciens et n'a pas tardé à leur rendre de précieux services. Avec le développement considérable qu'ont pris les sciences mathématiques au cours du XIX<sup>me</sup> siècle, il devenait en effet indispensable d'avoir un exposé à la fois simple et concis, mais aussi complet que possible, des résultats acquis dans les différentes branches de la science mathématique. C'est ce qui explique le succès de l'*Encyklopädie* et la nécessité d'en publier une édition française.

Cette édition ne sera pas une simple traduction, mais elle sera le résultat d'une véritable collaboration entre les auteurs des articles allemands et ceux du texte français. Elle sera publiée sous la direction de M. JULES MOLK, professeur à l'Université de Nancy.

L'édition française est divisée en *sept Tomes*, comprenant chacun trois ou quatre volumes gr. in-8<sup>o</sup> qui paraissent par livraison. Ces sept Tomes se répartissent comme suit :

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