ÉTATS-UNIS

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Newcastle-Upon-Tyne. *The Durham College of Science* (29th septembre 1902-23rd June 1903). — Lectures in Mathematics pure et applied ; **Prof.** H. Palin Gurney, Assistant-Prof. J.-M. Jessop, G.-W. Caunt, William Morton Davidson ; *Senior Courses*. Conic Sections ; Differential and Integral Calculus ; Solid Geometry ; Elementary Differential Equations, Analytical Statics, Dynamics. *Final Courses*. Higher Analysis ; Natural Philosophy ; Algebraic Geometry ; Differential and Integral Calculus ; Elements of Differential Equations, Statics, Dynamics of a Particles Elements of Rigid Dynamics.

Oxford. *University*. — Waynflete Professor of Pure Mathematics, E.-B. Elliot, M. A. : Theory of Numbers, 2 ; Theory of Functions, 1. — Savilian Professor of Astronomy, H.-H. Turner, O. Sc. : Elementary Mathematical Astronomy, 2. — Turner and Plummer : Practical Work, 3. — Savilian Professor of Geometry, W. Esson, M. A. : Analytic Geometry of Plane Curves, 2 ; Synthetic Geometry of Plane Curves, 1. — Sedleian Professor of Natural Philosophy, A.-E.-H. Love, D. Sc. : Spherical Harmonics and other methods of Analysis that are appropriate in applications to Physics, 3. — C.-E. Haselfoot, M. A. Algebra, 2. — C. Leudesdorf. M. A. : Projective Geometry (elementary) 3. — A.-E. Jolliffe, M.-A. : Analytical Geometry, 2. — J.-W. Russell, M. A. : Differential Calculus, 2. — R.-F. Mc Neile, M. A. : Curve Tracing, 1. — P.-J. Kirkby, M. A. : Introduction to Higher Algebra, 1. — A.-L. Pedder, M. A. : Problems in Pure Mathematics, 1. — C.-H. Sampson, M. A, : Solid Geometry, 2, — J.-E. Campbell, M. A. : Differential Equations, 2. — C.-H. Thompson, M. A. : Integral Calculus, 2. — E.-H. Hayes, M. A. Analytical Statics, 3. — A.-L. Dixon, M. A. : Hydrostatics, 1. — H.-T. Gerrans, M. A. : Advanced Rigid Dynamics, 2.

Southampton. *Hartley University College*. — Professor, J.-F. Hudson ; Assistant Lecturer, I.-J. Cowlishaw. *Senior Class* : Higher Algebra ; Trigonometry ; Pure Geometry ; Analytical Geometry ; Elementary Differential and Integral Calculus ; Kinetics and Statics of Particles and Rigid Bodies, Statics of Incompressible Fluids, Elementary Statics of Elastic Fluids and Solids, Optics and Astronomy. *Higher Senior Class :* Subject and hours by arrangement.

ÉTATS-UNIS

The University of Chicago. — The following advanced mathematical courses, four hours weekly, are offered during the three quarters (a, w, sp) of the academic year 1902-1903 : By Prof. E.-H. Moore : Projective geometry (a) ; General arithmetic, with seminar (w, sp). — By Professor O. Bolza : Theory of Functions (a, w) ; Theory of Equations (a, w). — By Professor Maschke : Modern Analytic Geometry

(a); Higher plane curves (w); Linear differential equations (sp); Advanced integral calculus (a, w, sp). — By Professor J.-W.-A. YOUNG: Solid analytics (sp). — By Professor L.-E. DICKSON: Finite Groups (a); Continuous groups (w). — By Dr F.-R. MOULTON: Analytic mechanics (a, w). — By M. A.-C. LUNN: Theoretical mechanics (sp).

The mathemetical club meets fortnightly.

Harvard University. — The following advanced mathematical courses are offered during the academic year 1902-1903: By Professor J.-M. PEIRCE: Triangular coordinates and algebraic plane curves, especially cubics; Quaternions (second course); * Linear associative algebra; * Algebra of logic. — By Professor W.-F. BYERLY; * Dynamics of a rigid body; Trignometric series, Spherical harmonics and potential functions. — By Professor W.-F. OSGOOD: Calculus (second course); * Algebra, Galois's theory of equations; theory of functions (first course); * Theory of functions (advanced course), transcendental integral and fractional functions. — By Professor M. BÔCHER: Modern Geometry; * Infinite series and products; * Introduction to partial differentitiation equations; * Theory of functions (advanced course), definite integrals. — By Dr C.-L. BOUTON: Differential equations, with introduction to Lie's theory of continuous groups. — By M. J.-K. WHITTEMORE: * Differential geometry of curves and surfaces; Hydrostatics, hydrokinematics, hydrokinetics, — By M. J.-L. COOLIDGE: * Theory of equations, invariants; Geometry of position.

Theses courses will involve three lectures per week throughout the year, except those preceeded by a*, which involve about half this number of lectures. Professors OSGOOD and BÔCHER, Dr BOUTON and M. COOLIDGE, also offer courses in reading and research on Theory of functions, Theory of differential equations, Theory of continuous groups, and Geometry, respectively.

The mathematical conference will meet twice a month.

Yale University. — The following mathematical courses are offered next year: By Professor J.-W. GIBBS: Elementary vector analysis (first semester); Advanced vector analysis (second semester), three hours; Multiple algebra, two hours; Electromagnetic theory of light, twe hours. — By Professor W.-A. BEEBE: Elementary analytical mechanics (first semester); Celestial mechanics (second semester), three hours. — By Professor James PIERPONT: Advanced calculus, three hours; Projective geometry, three hours; Advanced theory of functions of a complex variable, three hours. — By Professor P.-F. SMITH: Advanced analytical geometry, two hours, first semester, and three hours second semester; Differential equations, two hours (first semester). — By Professor H.-A. BUMSTEAD: Problems in mathematical physics, two hours. — By Professor M.-B. PORTER: Differential equations and theory of functions (first semester), and Invariants

(second semester), three hours. — By Dr H.-E. Hawkes : Higher algebra, three hours ; Complex multiplications of elliptic functions (second semester), three hours. — By Dr W.-A. Granville : Advanced analytical mechanics. two hours. — By Dr E.-R. Hedrick : Partial differential equations, three hours. — By D.-A.-S. Gale : Elementary analytic geometry (second course), three hours; Theory of transformations of space (first semester), three hours.

University of Michigan. — The following courses in mathematics are announced for the academic year 1902-1903 : By Prof. W.-W. Beman : Solid analytic geometry, two hours, first semester ; Differential Equations three hours, first semester ; Advanced differential and integral calculus, two hours, Higher Plane curves, two hours, second semester; Linear differential equations, two hours, second semester ; Quaternions, two hours, second semester. — By Professor A. Ziwet : Advanced mechanics, three hours, second semester ; theory of the potential, three hours, first semester ; Projective geometry and modern analytic geometry, three hours. — By Professor J.-L. Markley : Theory of functions, three hours. — By Dr J.-W. Glover : Higher algebra, three hours ; Theory of annuities and insurance, two hours, first semester ; Mathematics of insurance and statistics, second semester, two hours. — By M. E.-B. Escott : Theory of numbers, two hours, second semester.

Columbia University. — The following advanced courses in mathematics will be offered during the academic year 1902-1903. — By Professor F.-N. Cole : Riemann's theory of functions, including elliptic functions, three hours ; Theory of invariants, three hours. — By Professor T.-S. Fiske : Theory of abelian functions, three hours ; Functions defined by linear differential equations, three hours. — By Professor D.-E. Smith : History of mathematics, two hours ; Practicum in the history and teaching of mathematics, two hours. — By Professor J. Maclay : Analytical theory of curves of double curvature, three hours, first semester ; Analytical theory of curves of curved surfaces, three hours, second semester. — By Dr C.-J. Keyser : The general theory of assemblages, three hours. — By Dr G.-H. Ling : Differential equations, three hours. — By M. H.-B. Mitchell : Advanced calculus, theory of functions of a real variable, three hours.

Cornell University. — The folloving advanced mathematical courses are offered next year : By Professor G.-W. Jones : Higher algebra and trigonometry, three hours ; Theory of probabilities and least squares, two hours. — By professor L.-A. Wait : Advanced analytic geometry, three hours ; Advanced differential calculus and differential equations, three hours. — By Professor J.-H. Tanner : Algebraic invariants, two hours. — By Professor J. Mac Mahon : Quaternions

and vector analysis, two hours; Theoretical mechanics, two hours; Potential function, Fourier series, and spherical harmonics, two hours; Mathematical theory of sound, two hours. — By Professor J.-E. TREVOR : Mathematical theory of thermo dynamics, two hours. — By Dr V. SNYDER : Projective geometry, three hours; General theory of algebraic curves and surfaces. — By Dr J.-I. HUTCHINSON : Advanced integral calculus, two hours. — By Dr H.-F. STECKER : Non-linear ordinary differential equations, two hours; Calculus of variations, one hour; Theory of functions, three hours. — By Dr W.-B. FITE : Continuous groups, three hours, first semester; Linear groups, three hours, second semester; Theory of numbers, two hours.

Johns Hopkins University. — The following mathematical courses are announced for the academic year 1902-1903. By Professor F. MORLEY : Geometry (advanced course), three hours; Theory of groups, two hours, first semester; Theory of functions (advanced course), two hours, second semester; Mathematical seminary, one hour. — By Dr A. COHEN : Lie's theory of differential equations, two hours; Differential geometry, two hours; Elementary theory of functions. two hours; Differential equations, two hours. — By Professor L.-S. HULOURT : Projective geometry, four hours; Analytic geometry of three dimensions.

University of California. — The following courses of mathematics are announced for the academic year 1902-1903. By Professor I. STRINGHAM : Analytic projective geometry, three hours; Logic of mathematics, two hours, first semester; History of mathematics, three hours, second semester; seminar, two hours. — By Professor G.-C. EDWARDS : Differential equations, three hours; Theory of equations, two hours. — By Dr E.-J. WILCZYNSKI : Linear differential equations, three hours; Analytical geometry of space, three hours, second semester. — By M. A.-W. WHITNEY : Theory of probabilities, two hours, first semester; Theory of functions of a complex variable, three hours, first semester. — By Dr C.-A. NOBLE : Advanced calculus, three hours; Elliptic functions, three hours, second semester. — By Dr D.-N. LEHMER : Synthetic geometry, three hours, second semester. — By Dr E.-M. BLAKE : Differential geometry, three hours. — By Dr T.-M. PUTNAM : Theory of groups, three hours, first semester.

Stanford University. — The following courses in pure mathematics are announced for the academic year 1902-1903. By Professor R.-E. ALLARDICE : Definite integrals, two hours; Invariants, two hours; Geometry of three dimensions, three hours. — By Professor R.-L. GREEN : Theory of equations, three hours. — By Prof. H.-F. BLICHFELDT : Non-euclidean geometry, two hours. — By Professor G.-A. MILLER : Theory of groups, three hours; Theory of numbers, two hours; Seminary in the theory of groups, two hours.