MEMBERS OF THE SOCIETY.

JANUARY 1, 1913.

[Dates of admission in brackets. Life members are designated by *.]

ABBE, CLEVELAND, B.Sc., M.A., LL.D.; Editor of the *Bulletin of the Mount Weather Observatory;* Associate Editor of *Beiträge zur Physik der freien Atmosphäre;* Professor of Meteorology, U. S. Weather Bureau; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau,* Washington, D. C. [Nov., 1892.]

ACKERMANN-TEUBNER, BENEDICTUS GUSTAV ALFRED, Ph.D. (honorary, Greifswald), Dr.Ing. (honorary, Darmstadt). Publishing House of B. G. Teubner, Leipzig, Germany. *Poststrasse 3.* [Apr., 1907.]

AKERS, OSCAR PERRY, M.A., Ph.D. (Cornell); Professor of Mathematics, Allegheny College, Meadville, Pa. [Oct., 1905.]

ALEXANDER, JAMES WADDELL, II, B.Sc., M.A.; Instructor in Mathematics, Princeton University, Princeton, N. J. *24 Madison Street.* [Feb., 1912.]

ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania), LL.D.; President of the University of Maine, Orono, Me. [Nov., 1891.]

ALLARDICE, ROBERT EDGAR, M.A.; Professor of Mathematics, Stanford University, Cal. [Dec., 1901.]

ALLEN, EDWARD SWITZER, M.A.; Harvard University, Cambridge, Mass. *Piazza dell' Esquilino 12, Rome, Italy.* [Feb., 1910.]

ALLEN, JOSEPH, M.A.; Assistant Professor of Mathematics, College of the City of New York. *9 Myrtle Street,* White Plains, N. Y. [Dec., 1897.]

ALLEN, REGINALD BRYANT, M.Sc., Ph.D. (Clark); Professor of Mathematics, Kenyon College, Gambier, Ohio. [Oct., 1905.]

AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Associate Professor of the Teaching of Mathematics, University of Missouri, Columbia, Mo. *208 Thilly Avenue.* [Oct., 1903.]

AMMERMAN, CHARLES, M.A.; Instructor in Mathematics, McKinley High School, St. Louis, Mo. [Dec., 1907.]

ANDEREGG, FREDERICK, M.A.; Professor of Mathematics, Oberlin College, Oberlin, Ohio. *207 East College Street.* [Sept., 1911.]

ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). *47 Brevoort Place*, Brooklyn, N. Y. [Dec., 1901.]

*ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Assistant Professor of Mathematics, Brown University, Providence, R. I. *9 Charles Field Street*. [Oct., 1903.]

ARMSTRONG, GORDON NELSON, M.A.; Professor of Mathematics, Ohio Wesleyan University, Delaware, Ohio. [Dec., 1908.]

ASHCRAFT, THOMAS BRYCE, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Colby College, Waterville, Me. *11 Center Street*. [Oct., 1911.]

ASHTON, CHARLES HAMILTON, M.A., Ph.D. (Munich); Associate Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1200 Ohio Street*. [Oct., 1901.]

*ATCHISON, CLYDE SHEPHERD, B.A., Ph.D. (Johns Hopkins); Professor of Pure Mathematics, Washington and Jefferson College, Washington, Pa. [Dec., 1907.]

BABB, MAURICE JEFFERIS, B.Sc., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *157 Cricket Avenue, Ardmore, Pa.* [Feb., 1906.]

BACON, CLARA LATIMER, M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Goucher College, Baltimore, Md. *2316 North Calvert Street*. [Oct., 1911.]

BAILEY, FREDERICK HAROLD, M.A.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Feb., 1903.]

BAKER, ALFRED, M.A.; Professor of Mathematics and Dean of the Faculty of Arts, University of Toronto, Toronto, Canada. [June, 1891.]

BAKER, RICHARD PHILIP, B.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, State University of Iowa, Iowa City, Ia. *929 Kirkwood Avenue*. [Oct., 1904.]

BARNEY, IDA, Ph.D. (Yale); Assistant in Mathematics, Smith College, Northampton, Mass. *8 Paradise Road*. [Dec., 1911.]

BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Department of Agriculture, Washington, D. C. [Oct., 1894.]

BARTLETT, DANA PRESCOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Aug., 1903.]

BARTON, RALPH MARTIN, B.A.; University of Chicago, Chicago, Ill. [Dec., 1909.]

BARTON, SAMUEL MARX, B.A., Ph.D.; Professor of Mathematics, University of the South, Sewanee, Tenn. [Apr., 1892.]

BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *77 Park Avenue,* New York, N. Y. [Apr., 1891.]

BATEMAN, HARRY, M.A.; Johns Hopkins University, Baltimore, Md. [Apr., 1911.]

BATES, WILLIAM HUNT, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *306 Russell Street, West Lafayette.* [Oct., 1903.]

BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Professor of Mathematics, University of Minnesota, Minneapolis, Minn. [Dec., 1900.]

BEAL, FREDERICK WAHN, M.A., Ph.D. (Princeton); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Apr., 1910.]

BEATTY, SAMUEL, M.A.; Lecturer in Mathematics, University of Toronto, Toronto, Canada. [Apr., 1911.]

BECKETT, CHARLES HARRISON, B.A.; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. [Feb., 1905.]

BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.* [Sept., 1906.]

BEETLE, RALPH DENNISON, M.A.; Fellow in Mathematics, Princeton University, Princeton, N. J. *46 Park Place.* [Sept., 1910.]

BEMAN, WOOSTER WOODRUFF, M.A., LL.D.; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.* [Apr., 1891.]

BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Professor of Applied Mathematics and Dean of the College of Arts, University of Texas, Austin, Texas. [Oct., 1901.]

BENEDICT, SUZAN ROSE, B.Sc., M.A.; Instructor in Mathematics, Smith College, Northampton, Mass. *Clark House.* [Apr., 1912.]

BENNETT, ALBERT ARNOLD, M.A., M.Sc.; *33 Bank Street,* Princeton, N. J. [Feb., 1912.]

BENNETT, ELIZABETH RUTH, B.A., Ph.D. (Illinois); Instructor in Mathematics, University of Nebraska, Lincoln, Neb. [Feb., 1911.]

BERNSTEIN, BENJAMIN A., B.A.; Instructor in Mathematics, University of California, Berkeley, Cal. [Feb., 1910.]

*BERRY, ARTHUR, M.A.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England. [Feb., 1897.]

BERRY, WILLIAM JOHNSTON, M.A., M.Sc., C.E.; Assistant Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y. *1937 Eighty-Third Street.* [Apr., 1910.]

BETZ, WILLIAM, M.A.; Head of the Department of Mathematics and Assistant Principal, East High School, Rochester, N. Y. *160 Grand Avenue.* [Feb., 1906.]

BIKLÉ, CHARLES EARLE, M.A.; Head of the Department of Mathematics, Central High School, Syracuse, N. Y. [Apr., 1902.]

BILL, EARL GORDON, M.A., Ph.D. (Yale); Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. [Feb., 1908.]

BIRKHOFF, GEORGE DAVID, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *44 Shepard Street.* [Feb., 1906.]

BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipzig); Associate Professor of Mathematics, Stanford University, Cal. [Dec., 1900.]

*BLISS, GILBERT AMES, M.Sc., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Associate Professor of Mathematics, University of Chicago, Chicago, Ill. [Dec., 1900.]

BLUMBERG, HENRY, M.A., Ph.D. (Göttingen); *285 Pulaski Street,* Brooklyn, N. Y. [Oct., 1912.]

*BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); EX-PRESIDENT; Editor of the *Transactions of the American Mathematical Society;* Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *48 Buckingham Street.* [Apr., 1892.]

BOLZA, OSKAR, Ph.D. (Göttingen); Non-Resident Professor of Mathematics, University of Chicago, Chicago, Ill.; Honorary Professor of Mathematics, University of Freiburg, Freiburg, Germany. *Reichsgrafenstrasse 10.* [Nov., 1891.]

BÖRGER, ROBERT LACEY, M.A., Ph.D. (Chicago); Associate in Mathematics, University of Illinois, Urbana, Ill. *1105 West Oregon Street.* [Dec., 1905.]

*BOUTON, CHARLES LEONARD, M.Sc., M.A., Ph.D. (Leipzig); Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *5 Avon Street.* [Dec., 1898.]

BOWDEN, JOSEPH, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *24 Clifton Place.* [Dec., 1900.]

BOYD, PAUL PRENTICE, M.A., Ph.D. (Cornell); Professor of Mathematics, State University of Kentucky, Lexington, Ky. *326 Harrison Avenue.* [Oct., 1907.]

BRACKETT, FRANK PARKHURST, M.A.; Professor of Mathematics and Director of the Observatory, Pomona College, Claremont, Cal. [Feb., 1903.]

BRADSHAW, JOHN WILLIAM, M.A., Ph.D. (Strassburg); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1234 Prospect Street.* [Apr., 1907.]

BRAND, LOUIS, Ch.E., E.E., M.A.; Assistant Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. [Dec., 1911.]

BRATTON, WALTER ANDREW, B.A.; Professor of Mathematics and Dean of the Science Group, Whitman College, Walla Walla, Wash. [Sept., 1912.]

BRECKENRIDGE, WILLIAM EDWIN, M.A.; Head of the Department of Mathematics, Stuyvesant High School; Instructor in Mathematics, Teachers College, Columbia University, New York, N. Y. *345 East 15th Street.* [Feb., 1903.]

BRENKE, WILLIAM CHARLES, M.Sc., Ph.D. (Harvard); Associate Professor of Mathematics, University of Nebraska, Lincoln, Neb. *1250 South 21st Street.* [Feb., 1906.]

BREWSTER, JOHN ALFRED, B.A.; Tutor in Mathematics, College of the City of New York; Professor of Mathematics, College of Mount Saint Mary, Plainfield, N. J.; Professor of Economics, College of New Rochelle, New Rochelle, N. Y. *419 West 119th Street, New York, N. Y.* [Oct., 1908.]

BROMWICH, THOMAS JOHN I'ANSON, Sc.D., F.R.S.; Secretary of the London Mathematical Society; Fellow and Lecturer of St. John's College and University Lecturer in Mathematics, Cambridge University, Cambridge, England. *1 Selwyn Gardens.* [Sept., 1902.]

BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Head of the Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. [Dec., 1901.]

BROOKS, CHARLES EDWARD, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Northwestern University, Evanston, Ill. [Sept., 1911.]

BROWER, GEORGE GRISWOLD, M.Sc., M.A.; Teacher of Mathematics, State Model School, Trenton, N. J. [Sept., 1911.]

*BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); Editor of the *Bulletin of the American Mathematical Society;* Assistant Editor of the *Astronomical Journal;* Professor of Mathematics, Yale University, New Haven, Conn. *116 Everit Street.* [Feb., 1892.]

BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Dean of the Faculty, South Dakota State College, Brookings, S. D. [Oct., 1900.]

*BROWN, J. STANFORD, B.Ph., M.A.; Vice-President and Treasurer of the New York Realty Owners Incorporated. *10 Belmont Avenue, Yonkers, N. Y.* [Sept., 1902.]

BUCHANAN, DANIEL, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Queen's University, Kingston, Ontario, Canada. [Feb., 1911.]

BUCHANAN, HERBERT EARLE, M.A., Ph.D. (Chicago); Professor of Mathematics, University of Tennessee, Knoxville, Tenn. [Apr., 1908.]

BUCK, THOMAS, B.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2131 Haste Street.* [Sept., 1907.]

*BULLARD, WARREN GARDNER, B.A., Ph.D. (Clark); Professor of Mathematics, Syracuse University, Syracuse, N. Y. *124 Frank Street.* [Aug., 1899.]

BULLIS, ABRAM ROGERS, B.Sc., B.C.E. Macedon, Wayne County, N. Y. [June, 1891.]

BURGESS, HORACE THOMAS, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Wisconsin, Madison, Wis. *812 West Dayton Street.* [Oct., 1909.]

BURRELL, ELLEN LOUISA, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass. [Feb., 1903.]

BUSSEY, WILLIAM HENRY, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. [Oct., 1904.]

BUTTS, WILLIAM HENRY, M.A., Ph.D. (Zurich); Junior Professor of Mathematics and Assistant Dean of the Department of Engineering, University of Michigan, Ann Arbor, Mich. *919 Oakland Avenue.* [Oct., 1908.]

BYERLY, WILLIAM ELWOOD, M.A., Ph.D. (Harvard); Perkins Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.* [Apr., 1891.]

CAIN, WILLIAM, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. [June, 1891.]

CAIRNS, WILLIAM DEWEESE, M.A., Ph.D. (Göttingen); Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. *55 East Lorain Street.* [Feb., 1905.]

CAJORI, FLORIAN, M.Sc., Ph.D., LL.D.; Professor of Mathematics and Dean of the Engineering School, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.* [Apr., 1899.]

*CAMP, BURTON HOWARD, M.A., Ph.D. (Yale); Associate Professor of Mathematics, Wesleyan University, Middletown, Conn. *41 Brainerd Avenue.* [Dec., 1907.]

CAMPBELL, DONALD FRANCIS, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. [Dec., 1900.]

CAMPBELL, GEORGE ASHLEY, B.Sc., M.A., Ph.D. (Harvard); Research Engineer, American Telephone and Telegraph Company, New York, N. Y. *15 Dey Street.* [Oct., 1910.]

CAPRON, PAUL, M.A.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md. [Oct., 1897.]

CAREY, EUGENE FRANCIS ALOYSIUS, B.Sc.; Instructor in Mathematics, University of Montana, Missoula, Mont. [Apr., 1908.]

CARMICHAEL, ROBERT DANIEL, B.A., Ph.D. (Princeton); Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. [Apr., 1906.]

CARPENTER, ALLEN FULLER, M.A.; Instructor in Mathematics, University of Washington, Seattle, Wash. *4524 Twentieth Avenue, N. E.* [Oct., 1906.]

CARRUTH, WILLIAM MASSEY, B.A.; Associate Professor of Mathematics, Hamilton College, Clinton, N. Y. *P. O. Box 25.* [Dec., 1907.]

CARTER, BENJAMIN EDWARD, M.A.; Assistant Professor of Mathematics, Colby College, Waterville, Me. [Feb., 1906.]

CARVER, WALTER BUCKINGHAM, Ph.B., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *201 Fairmount Avenue.* [Dec., 1905.]

CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown). Providence, R. I. *324 Angell Street.* [Apr., 1896.]

CHAMBERS, GEORGE GAILEY, B.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *79 Drexel Avenue, Lansdowne, Pa.* [Sept., 1908.]

CHAPMAN, FRANK E., M.A.; Professor of Mathematics, Southern University, Greensboro, Ala. [Apr., 1908.]

CHITTENDEN, EDWARD WILSON, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Illinois, Champaign, Ill. *508 East John Street.* [Dec., 1912.]

CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y. [Nov., 1895.]

CLARK, JOHN EMORY, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *34 South Park Terrace,* Longmeadow, Mass. [Apr., 1891.]

CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston); Professor of School Organization and Administration, Boston University, Boston, Mass. *18 Centre Street, Cambridge, Mass.* [Dec., 1900.]

CLEMENTS, GUY ROGER, M.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis. *15 South Bassett Street.* [Dec., 1907.]

COAR, HENRY LIVINGSTON, M.A., Ph.D. (Illinois); Professor of Mathematics and Lee Lecturer on Astronomy, Marietta College, Marietta, Ohio. *Muskingum Terrace.* [Feb., 1906.]

COBB, CHARLES W., M.A., Ph.D.; Assistant Professor of Mathematics, Amherst College, Amherst, Mass. [Dec., 1911.]

COBB, HERBERT EDGAR, M.A.; Mathematics Editor of *School Science and Mathematics;* Professor and Head of the Department of Mathematics, Lewis Institute, Chicago, Ill. [Apr., 1907.]

COBLE, ARTHUR B., M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Johns Hopkins University, Baltimore, Md. [Dec., 1902.]

CODDINGTON, EMILY, M.A., Ph.D. (Columbia). *24 West 58th Street,* New York, N. Y. [Dec., 1905.]

COFFIN, JOSEPH GEORGE, B.Sc., Ph.D. (Clark); Assistant Professor of Physics, College of the City of New York, New York, N. Y. *115 Hamilton Place.* [Feb., 1912.]

COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Coeditor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md. [Feb., 1893.]

COLAW, J. M., M.A.; *P. O. Box 106,* Monterey, Va. [Oct., 1912.]

*COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y. [Apr., 1891.]

COLLINS, JOSEPH VICTOR, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.* [Dec., 1899.]

COLPITTS, ELMER CLIFFORD, B.A., Ph.D. (Cornell); Assistant Professor of Mathematics, State College of Washington, Pullman, Wash. *410 Montgomery Street.* [Sept., 1906.]

COLPITTS, JULIA TRUEMAN, M.A.; Assistant Professor of Mathematics, Iowa State College, Ames, Ia. [Dec., 1907.]

COMSTOCK, CLARENCE ELMER, M.A.; Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill. [Aug., 1903.]

COMSTOCK, ELTING HOUGHTALING, M.Sc.; Professor of Mechanics and Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn. [Feb., 1898.]

CONANT, LEVI LEONARD, M.A., Ph.D.; Acting President and Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. [Oct., 1892.]

CONNER, JAMES RYALS, B.A., Ph.D. (Johns Hopkins); Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa. *Yarrow West.* [Dec., 1909.]

CONSTANTIUS, BROTHER, M.A., Ph.D. (St. Louis), LL.D.; Professor of Philosophy, Christian Brothers College, Memphis, Tenn. [Sept., 1906.]

CONVERSE, HENRY A., B.A., Ph.D. (Johns Hopkins); Head of the Department of Mathematics, Baltimore Polytechnic Institute, Baltimore, Md. *1204 Mount Royal Avenue.* [Sept., 1904.]

CONWELL, GEORGE MACFEELY, M.A., Ph.D. (Princeton); Instructor in Mathematics, Yale University, New Haven, Conn. *681 Yale Station.* [Sept., 1908.]

*COOLIDGE, JULIAN LOWELL, B.A., B.Sc., Ph.D. (Bonn); Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *7 Fayerweather Street.* [June, 1900.]

COREY, SAMUEL ARTHUR, Treasurer of the Wapello Coal Company, Hiteman, Ia. [Apr., 1907.]

CORNISH, WILLIAM AARON, B.A.; Instructor in Mathematics, State Normal School, Cortland, N. Y. *32 Owego Street.* [Dec., 1902.]

COWLEY, ELIZABETH BUCHANAN, M.A., Ph.D. (Columbia); Collaborator of the *Revue Semestrielle des Publications Mathématiques;* Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y. [Feb., 1903.]

COX, CARL SYFAN, M.A.; Principal of the Mulberry Senior High School, Mulberry, Fla. *P. O. Box 187.* [Dec., 1912.]

CRAIG, CLYDE FIRMAN, B.A., Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *320 North Aurora Street.* [Oct., 1908.]

CRATHORNE, ARTHUR R., B.A., Ph.D. (Göttingen); Associate in Mathematics, University of Illinois, Champaign, Ill. *1113 South Fourth Street.* [Dec., 1900.]

CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D. (Pennsylvania); Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. [Apr., 1891.]

CRESSE, GEORGE HOFFMAN, M.A.; Assistant Professor of Mathematics, Middlebury College, Middlebury, Vt. [Feb., 1912.]

CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y. [Oct., 1903.]

*CUNNINGHAM, ALLAN JOSEPH CHAMPNEYS, Lieutenant Colonel R. E., retired; Fellow of King's College, London. *20 Essex Villas, Kensington,* London, W., England. [Oct., 1905.]

CUNNINGHAM, SUSAN J., Emeritus Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa. *3308 Arch Street, Philadelphia, Pa.* [Dec., 1891.]

CURJEL, HARALD WORTHINGTON, M.A.; La Mexicana Compañia de Seguros sobre la Vida, Mexico, D. F., Mexico. *Apartado 651.* [Dec., 1900.]

CURRIER, CLINTON HARVEY, M.A.; Instructor in Mathematics, Brown University, Providence, R. I. [Feb., 1908.]

CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y. [Oct., 1904.]

CURTIS, HAROLD BARTLETT, B.A., Ph.D. (Cornell); Instructor in Mathematics, Barnard College, Columbia University, New York, N. Y. [Feb., 1911.]

CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Professor of Mathematics, Northwestern University, Evanston, Ill. *720 Milburn Street.* [Feb., 1902.]

DALAKER, HANS H., B.A.; Assistant Professor of Mathematics, Engineering College, University of Minnesota, Minneapolis, Minn. *523 Walnut Street, S. E.* [Oct., 1909.]

DAVIS, CHARLES HENRY. South Yarmouth, Mass. [Oct., 1900.]

DAVIS, ELIZABETH BROWN, B.Sc.; Nautical Almanac Office, Washington, D. C. *2212 First Street, N. W.* [Oct., 1910.]

DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Head Professor of Mathematics and Dean of the College of Arts and Sciences, University of Nebraska, Lincoln, Neb. [Apr., 1891.]

*DAVIS, HARVEY NATHANIEL, Ph.D.; Assistant Professor of Physics, Harvard University, Cambridge, Mass. *8 Ash Street Place.* [Aug., 1903.]

DAVIS, JOSEPH MORTON, B.Sc., M.A.; Associate Professor of Mathematics, State University of Kentucky, Lexington, Ky. *340 Madison Place.* [Oct., 1911.]

DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.* [Apr., 1891.]

DAVISSON, SCHUYLER COLFAX, M.A., Sc.D.; Professor of Mathematics, Indiana University, Bloomington, Ind. *515 East Third Street.* [Feb., 1905.]

DECHERD, MARY ELIZABETH, M.A.; Instructor in Mathematics, University of Texas, Austin, Tex. *2313 Nueces Street.* [Oct., 1905.]

DECKER, FLOYD FISKE, Ph.M., Ph.D. (Syracuse); Assistant Professor of Mathematics, Syracuse University, Syracuse, N. Y. *854 Sumner Avenue.* [Sept., 1908.]

DE COU, EDGAR EZEKIEL, M.Sc.; Professor and Head of the Department of Mathematics, University of Oregon, Eugene, Ore. *719 Mill Street.* [Feb., 1903.]

DEDERICK, LOUIS SERLE, M.A., Ph.D. (Harvard); Instructor in Mathematics, Princeton University, Princeton, N. J. *23 William Street.* [Sept., 1909.]

DEFOE, LUTHER MARION, Professor of Mechanics, University of Missouri, Columbia, Mo. [Dec., 1900.]

DEIMEL, RICHARD FRANCIS, M.A.; Assistant Professor of Mechanics, Stevens Institute, Hoboken, N. J. [Dec., 1903.]

DeLong, Ira Mitchell, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 Broadway.* [May, 1891.]

DeLury, Alfred Tennyson, M.A.; Professor of Mathematics, University of Toronto, Toronto, Canada. [Jan., 1895.]

*Dennett, William Sawyer, B.A., M.D. *8 East 49th Street,* New York, N. Y. [Jan., 1892.]

Denton, William Wells, M.A., Ph.D.; Instructor in Mathematics, University of Illinois, Urbana, Ill. *905 South Sixth Street, Champaign, Ill.* [Apr., 1909.]

Dickson, Leonard Eugene, B.Sc., M.A., Ph.D. (Chicago); Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, University of Chicago, Chicago, Ill. [Nov., 1896.]

Dimick, Chester Edward, M.A.; Instructor of Cadets, U. S. Revenue Cutter Service, Fort Trumbull, New London, Conn. [Apr., 1904.]

Dines, Charles Ross, M.A.; Fellow in Mathematics, University of Chicago, Chicago, Ill. *18 Hitchcock Hall.* [Feb., 1912.]

Dines, Lloyd L., M.A., Ph.D. (Chicago); Instructor in Mathematics, Columbia University, New York, N. Y. [Feb., 1911.]

Dodd, Edward Lewis, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Texas, Austin, Texas. *1206 Guadalupe Street.* [Sept., 1904.]

Dohmen, Franz Joseph, B.Lit., Ph.D. (Greifswald); *39 Ellery Street,* Cambridge, Mass. [Dec., 1905.]

Dowling, Linnæus Wayland, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *2 Roby Road.* [Apr., 1897.]

Downey, John F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn. [Feb., 1901.]

Dresden, Arnold, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *1120 West Johnson Street.* [Sept., 1907.]

Droke, George Wesley, M.A.; Professor of Mathematics and Astronomy, University of Arkansas, Fayetteville, Ark. *103 Hill Street.* [Sept., 1906.]

Dunkel, Otto, M.E., M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Missouri, Columbia, Mo. *602 Sanford Street.* [Oct., 1902.]

Durell, Fletcher, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J. [Apr., 1891.]

Durfee, William Pitt, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.* [Apr., 1891.]

DUVAL, EDMUND PENDLETON RANDOLPH, B.Sc., M.A.; Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. *1609 Tennessee Street.* [Feb., 1904.]

ECHOLS, CHARLES PATTON, Graduate of the U. S. Military Academy; Lieutenant-Colonel U. S. A.; Professor of Mathematics, U. S. Military Academy, West Point, N. Y. [Sept., 1905.]

ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va. [Apr., 1891.]

EDDY, HENRY TURNER, C.E., M.A., Ph.D., Sc.D., LL.D.; Head Professor of Mathematics and Mechanics, College of Engineering, and Dean of the Graduate School, emeritus, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.* [Apr., 1891.]

EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Professor of Mathematics, New York University, New York, N. Y. *University Heights.* [Dec., 1896.]

EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Professor of Mathematics, University of California, Berkeley, Cal. [Sept., 1902.]

EELLS, WALTER CROSBY, M.A.; Professor of Mathematics, Whitworth College, Tacoma, Wash. [Oct., 1911.]

EIESLAND, JOHN, B.Ph., Ph.D. (Johns Hopkins); Professor and Head of the Department of Mathematics, University of West Virginia, Morgantown, W. Va. *23 Demain Avenue.* [Feb., 1897.]

*EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Editor of the *Annals of Mathematics;* Professor of Mathematics, Princeton University, Princeton, N. J. *22 Alexander Street.* [Dec., 1900.]

*ELLIOTT, EDWIN BAILEY, M.A.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.* [Feb., 1898.]

EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *604 West Elm Street.* [Nov., 1896.]

EMMONS, CLYDE W., M.A.; Professor of Mathematics, Simpson College, Indianola, Ia. [Oct., 1910.]

ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Professor of Applied Mathematics, University of Nebraska, Lincoln, Neb. [Apr., 1898.]

ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; Secretary and Treasurer of Washington University, St. Louis, Mo. [Mar., 1892.]

ENGLISH, HARRY, B.A., LL.M.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.* [Oct., 1903.]

EPSTEEN, SAUL, B.Sc., Ph.D. (Zurich); Professor of Mathematics, University of Colorado, Boulder, Colo. *1317 Seventh Street.* [Sept., 1904.]

*Escott, Edward Brind, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1825 Hill Street.* [Oct., 1898.]

Esty, Thomas Cushing, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass. [Dec., 1901.]

Esty, William Cole, LL.D.; Emeritus Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass. [May, 1891.]

Evans, George William, B.A.; Headmaster of the Charlestown High School, Boston, Mass. *17 Everett Avenue, Dorchester, Mass.* [Feb., 1910.]

Evans, Griffith Conrad, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, Rice Institute, Houston, Tex. [Oct., 1909.]

Evans, Henry Brown, M.E., Ph.D. (Pennsylvania); Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Sept., 1905.]

Ewing, William Ferdinand, B.A.; Head of the Department of Mathematics, Cogswell Polytechnic College, San Francisco, Cal. *6235 Florio Street, Oakland, Cal.* [Sept., 1908.]

Faught, John Brookie, M.A., Ph.D.; Professor of Mathematics, Western State Normal School, Kalamazoo, Mich. *1409 Academy Street.* [Feb., 1899.]

Feemster, Howard Calvin, M.A.; Professor of Mathematics and Vice-President, York College, York, Neb. *1005 Mayhew Avenue.* [Oct., 1910.]

*Ferry, Frederick Carlos, M.A., Ph.D. (Clark), Sc.D. (Colgate); Professor of Mathematics and Dean, Williams College, Williamstown, Mass. [Feb., 1901.]

Field, Floyd, M.A.; Professor of Mathematics and Head of the Department, Georgia School of Technology, Atlanta, Ga. *1689 Cambridge Street, Cambridge, Mass.* [Apr., 1907.]

Field, Peter, M.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1054 Ferdon Road.* [June, 1900.]

*Fields, John Charles, Ph.D. (Johns Hopkins); Associate Professor of Mathematics, University of Toronto, Toronto, Canada. [May, 1891.]

Findlay, William, M.A., Ph.D. (Chicago); Professor of Mathematics, McMaster University, Toronto, Canada. [Oct., 1901.]

Fine, Henry Burchard, M.A., Ph.D. (Leipzig), LL.D.; Ex-President; Professor of Mathematics and Dean, Princeton University, Princeton, N. J. [May, 1891.]

Finkel, Benjamin Franklin, Ph.D.; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.* [June, 1891.]

FISHER, CHARLES EDWARD, M.A.; Head of the Department of Mathematics, Rhode Island Normal School, Providence, R. I. *232 Pleasant Street.* [Apr., 1912.]

FISHER, GEORGE EGBERT, M.A., Ph.D.; Professor of Mathematics and Dean of the College Faculty, University of Pennsylvania, Philadelphia, Pa. [Oct., 1891.]

FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.* [Jan., 1895.]

*FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); EX-PRESIDENT; Professor of Mathematics, Columbia University, New York, N. Y. [Nov., 1888.]

FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y. [Feb., 1897.]

FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Professor of Mathematics, Columbia University, New York, N. Y. [Oct., 1901.]

FITTERER, JOHN CONRAD, C.E.; Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. *511 South Eleventh Street.* [Dec., 1911.]

FLANAGAN, CHARLES EDWARD. Actuary of the Conservative Life Insurance Company, Wheeling, W. Va. [Feb., 1910.]

FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo. *715 Miller Avenue.* [Oct., 1904.]

FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C. [Oct., 1894.]

FOCKE, THEODORE M., B.Sc., Ph.D. (Göttingen); Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio. [Feb., 1907.]

FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y. [Apr., 1900.]

*FORD, WALTER BURTON, M.A., Ph.D. (Harvard); Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *904 Forest Avenue.* [Aug., 1899.]

FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria, Oxford, Liverpool), LL.D. (Glasgow, Aberdeen); Math.D. (Christiania). Cambridge, England. [Dec., 1899.]

*FRANKLAND, FREDERICK WILLIAM; Government Examiner in Statistical Method and in Actuarial and Pure Mathematics and in the Law and Practice of Life and Accident Insurance, Foxton, New Zealand. [Dec., 1893.]

FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins), LL.D.; *The Evening Post,* New York, N. Y. [Dec., 1892.]

FRAZER, FRANK DEAN, B.Sc., M.A. *1206 Haight Avenue,* Portland, Ore.
[Feb., 1903.]

FRENCH, JOHN SHAW, B.A., Ph.D. (Clark); Principal of the Morris
Heights School, Providence, R. I. [Feb., 1905.]

FRIZELL, ARTHUR BOWES, M.A., Ph.D. (Kansas); Professor of Mathe-
matics, McPherson College, McPherson, Kans. *1010 East Euclid
Street.* [Nov., 1895.]

GABA, MEYER, M.Sc.; Instructor in Mathematics, Dartmouth College,
Hanover, N. H. [Apr., 1909.]

GAEHR, PAUL FREDERICK, M.A.; Professor of Physics, Wells College,
Aurora, N. Y. [Dec., 1908.]

GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Fayerweather Professor
of Mathematics, University of Rochester, Rochester, N. Y. *35 Vick
Park B.* [Oct., 1899.]

GARRETT, WILLARD HAYES, B.Sc.; Professor of Mathematics and Astron-
omy, Baker University, Baldwin, Kan. [Apr., 1909.]

GARRISON, WILBERT A., M.A.; Assistant Professor of Mathematics, Engi-
neering School, Union University, Schenectady, N. Y. *99 Van
Vanken Avenue.* [Feb., 1909.]

GAVETT, GEORGE IRVING, B.Sc. (C.E.); Assistant Professor of Mathe-
matics, University of Washington, Seattle, Washington. *5507
Fifteenth Avenue, N. E.* [Dec., 1904.]

GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Stilesville, Ind. [Feb.,
1894.]

GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public
School No. 130, *Ocean Parkway and Fort Hamilton Avenue,* Brook-
lyn, N. Y. [Dec., 1897.]

*GERRANS, HENRY TRESAWNA, M.A.; Fellow and Lecturer of Worcester
College, Oxford, England. *20 St. John Street.* [Feb., 1901.]

GIBSON, GEORGE ALEXANDER, M.A., LL.D.; Professor of Mathematics,
University of Glasgow, Glasgow, Scotland. *10 The University.*
[Oct., 1903.]

GILLESPIE, DAVID CLINTON, M.A., Ph.D. (Göttingen); Assistant Pro-
fessor of Mathematics, Cornell University, Ithaca, N. Y. *Grey
Court.* [Feb., 1907.]

GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Professor of Mathematics,
Princeton University, Princeton, N. J. *78 Alexander Street.* [Apr.,
1904.]

GITHENS, CURRAN ELLSWORTH, M.A.; Supervising Principal of Schools,
Wheeling, W. Va. *25 Kentucky Avenue.* [Feb., 1910.]

GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; Editor of the *Messenger
of Mathematics* and of the *Quarterly Journal of Pure and Applied*

Mathematics; Fellow of Trinity College, Cambridge, England. [June, 1892.]

GLASHAN, JOHN STUART CADENHEAD, LL.D. Ottawa, Canada. [May, 1891.]

GLAZIER, HARRIET EUDORA, M.A.; Professor of Mathematics, Western College for Women, Oxford, Ohio. [Sept., 1906.]

GLENN, OLIVER EDMUNDS, M.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Dec., 1905.]

GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. *620 Oxford Road.* [Nov., 1896.]

GRAHAM, WILLIAM JOSEPH, B.A.; Equitable Life Assurance Society, pany, Newark, N. J. [Oct., 1897.]

GOTTSCHALL, LOUIS, B.Sc., M.A. *462 Broadway,* New York, N. Y. [Oct., 1909.]

GOULD, ALICE BACHE, B.A. *88 Bay State Road,* Boston, Mass. [Feb., 1902.]

GRABER, MYRON EARLE, M.A.; Professor of Physics, Heidelberg University, Tiffin, O. *122 Circular Street.* [Dec., 1904.]

GRAHAM, WILLIAM JOSEPH, B.A.; Equitable Life Assurance Society, *165 Broadway,* New York, N. Y. [Aug., 1903.]

GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. [Oct., 1904.]

GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale), LL.D. (Lafayette); President of Pennsylvania College, Gettysburg, Pa. [May, 1897.]

GRAUSTEIN, WILLIAM CASPAR, M.A.; *Meckenheimerallee 44, Bonn, Germany.* [Sept., 1911.]

GRAVATT, THOMAS E., B.Sc.; Instructor in Mathematics, Pennsylvania State College, State College, Pa. [Oct., 1906.]

GRAVES, GORDON HARWOOD, B.Sc., M.A.; Instructor in Mathematics, State Agricultural College, Fort Collins, Colo. [Dec., 1911.]

*GREENHILL, SIR GEORGE, M.A.; Late Professor of Mathematics, Artillery College, Woolwich, England. *1 Staple Inn, London, W. C.* [Oct., 1897.]

GRIFFIN, FRANK LOXLEY, M.Sc., Ph.D. (Chicago); Professor of Mathematics, Reed College, Portland, Ore. [Apr., 1906.]

GRIFFITH, JOHN HOWELL, M.Sc.; Associate Engineer Physicist, in Charge of the Physical Testing Laboratory, U. S. Bureau of Standards, Pittsburgh, Pa. [Apr., 1911.]

GRIFFITHS, IDA, B.A. *95 Garden Street,* Poughkeepsie, N. Y. [Dec., 1893.]

GRIMES, NATHAN CESNA, M.A.; Professor of Mathematics, University of Arizona, Tucson, Ariz. [Sept., 1910.]

*GROAT, BENJAMIN FELAND, B.Sc., LL.M.; Hydraulic Engineer, *3415 William Pitt Building*, Pittsburgh, Pa. [Oct., 1899.]

GRONWALL, THOMAS HAKON, C.E., Ph.D. (Upsala); *912 Schiller Building*, Chicago, Ill. [Apr., 1912.]

GROVE, CHARLES CLAYTON, M.A., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Columbia University, New York, N. Y. [Feb., 1907.]

*GUCCIA, GIOVANNI BATTISTA, NOB. DEI MARCHESI DI GANZARIA, Math.D. (Rome); Member of the International Commission of the *Répertoire Bibliographique des Sciences Mathématiques;* Founder and Director of the *Rendiconti del Circolo Matematico di Palermo;* Professor of Higher Geometry, University of Palermo, Palermo, Italy. *Via Ruggiero Settimo, 30.* [Sept., 1905.]

*GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Drexel Institute, Philadelphia, Pa. [June, 1894.]

GUNDELFINGER, GEORGE FREDERICK, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *886 Yale Station.* [Apr., 1909.]

GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Professor of Mathematics, Oklahoma Agricultural and Mechanical College, Stillwater, Okla. [Feb., 1902.]

GUNTHER, CHARLES OTTO, M.E.; Professor of Mathematics and Head of the Department, Stevens Institute of Technology, Hoboken, N. J. [Sept., 1906.]

HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipzig); Professor of Mathematics, University of Michigan, Ann Arbor, Mich. [Dec., 1902.]

HALLETT, GEORGE HERVEY, M.A., Ph.D.; Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Oct., 1894.]

HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, State Teachers College of Colorado, Greeley, Colo. *942 Ninth Avenue.* [May, 1891.]

*HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, University of Puget Sound, Tacoma, Wash. *826 North Steele Street.* [Oct., 1901.]

HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *2415 Auburn Avenue, Mount Auburn.* [Apr., 1895.]

HANNA, ULYSSES S., M.A., Ph.D. (Pennsylvania); Associate Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.* [Dec., 1900.]

*HARDCASTLE, FRANCES. *3 Osborn Terrace,* Newcastle-on-Tyne, England. [Feb., 1894.]

HARDY, JAMES GRAHAM, M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Williams College, Williamstown, Mass. [Apr., 1902.]

*HARKNESS, JAMES, M.A.; Professor of Mathematics, McGill University, Montreal, Canada. [May, 1891.]

HARSHBARGER, WILLIAM ASBURY, B.Sc.; Professor of Mathematics, Washburn College, Topeka, Kan. *1401 College Avenue.* [Apr., 1909.]

HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me. [Apr., 1891.]

HARTWELL, GEORGE WILBER, M.A., Ph.D. (Columbia); Professor of Mathematics, Hamline University, St. Paul, Minn. *737 Fry Street.* [Apr., 1907.]

HARVEY, HENRY CLAY, M.Sc.; Head of the Department of Mathematics, State Normal School, Kirksville, Mo. *1315 East Normal Avenue.* [Feb., 1904.]

HASEMAN, CHARLES, M.A., Ph.D. (Göttingen); Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev. [Oct., 1907.]

HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.* [Dec., 1899.]

HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. *R. F. D. 1, Lebanon, N. H.* [Feb., 1903.]

HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North Tenth Street.* [May, 1891.]

HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Professor of Mathematics, Columbia University, New York, N. Y. [Aug., 1898.]

HAWKESWORTH, REV. ALAN SPENCER. Sheridanville, Pittsburgh, Pa. [Oct., 1906.]

HAYNES, ARTHUR EDWIN, M.Sc., M.Ph., Sc.D. (Hillsdale); Professor of Engineering Mathematics, retired, University of Minnesota, Minneapolis, Minn. *703 River Road East.* [Sept., 1908.]

HAYNES, ELI STUART, M.A.; Instructor in Astronomy, University of California, Berkeley, Cal. *Student's Observatory.* [Dec., 1905.]

H'DOUBLER, FRANCIS TODD, M.A., Ph.D. (Wisconsin); Instructor in Mathematics, University of Wisconsin, Madison, Wis. *221 North Brooks Street.* [Sept., 1910.]

HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *304 Hicks Avenue.* [Aug., 1901.]

HENDERSON, ROBERT, B.A.; Actuary of the Equitable Life Assurance Society. *165 Broadway,* New York, N. Y. [Sept., 1910.]

HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Chief of Maintenance and Economics, Office of Public Roads, Washington, D. C. [Dec., 1900.]

HIGDON, JOHN E., B.A.; Assistant Actuary of The State Life Insurance Company, Indianapolis, Ind. *State Life Building.* [Oct., 1904.]

HIGLEY, HOMER RANSOM, M.Sc.; Assistant Professor of Mathematics, Stevens Institute, Hoboken, N. J. [Oct., 1906.]

HILDEBRANDT, THEOPHIL HENRY, B.A., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *513 Elm Street.* [Sept., 1907.]

HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Assistant Editor of the *Astronomical Journal.* West Nyack, N. Y. [Dec., 1892.]

HILTEBEITEL, ADAM MILLER, M.A., Ph.D. (Princeton); Instructor in Mathematics, Worcester Academy, Worcester, Mass. [Sept., 1905.]

HIMOWICH, ADOLPH A., M.Sc., M.D. *1913 Madison Avenue,* New York, N. Y. [Dec., 1898.]

HITCHCOCK, RAYMOND ROYCE, M.A.; Assistant Professor of Mathematics, University of North Dakota, University, N. Dak. [Oct., 1910.]

HODGE, FREDERICK HUMBERT, M.A.; Professor of Mathematics, Franklin College, Franklin, Ind. *670 East Jefferson Street.* [Feb., 1905.]

HODGE, PERCY, B.A., B.Sc., Ph.D. (Cornell). Professor of Physics, Stevens Institute of Technology, Hoboken, N. J. [Dec., 1910.]

HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (George Washington); Professor and Head of the Department of Mathematics and Dean of the College of Engineering, George Washington University, Washington, D. C. [Apr., 1902.]

HOGREFE, LOUIS T. W., Ph.C., B.Sc.; Consulting and Research Chemist. *1119 Park Place,* Brooklyn, N. Y. [Apr., 1909.]

HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark), LL.D.; Professor of Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. *617 Library Street.* [Feb., 1895.]

HOPKINS, LOUIS ALLEN, B.A., M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1203 Church Street.* [Apr., 1912.]

HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. *365 Lincoln Avenue.* [Dec., 1902.]

HOWE, CHARLES SUMNER, Ph.D., Sc.D., LL.D.; President of the Case School of Applied Science, Cleveland, Ohio. [May, 1891.]

HOWE, HERBERT ALONZO, M.A., Sc.D., LL.D.; Director of the Chamberlin
Observatory and Dean of the College of Liberal Arts, University of
Denver, University Park, Colo. [May, 1891.]

HOWLAND, LEROY ALBERT, M.A., Ph.D. (Munich); Associate Professor
of Mathematics, Wesleyan University, Middletown, Conn. *51 Wyllys
Avenue.* [Apr., 1909.[

HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate
Professor of Mathematics, Johns Hopkins University, Baltimore,
Md. [May, 1891.]

HUN, JOHN GALE, Ph.D. (Johns Hopkins); Preceptor in Mathematics,
Princeton University, Princeton, N. J. [Feb., 1904.]

HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Assistant
Professor of Mathematics, Harvard University, Cambridge, Mass.
27 Everett Street. [Oct., 1901.]

HURWITZ, WALLIE ABRAHAM, B.Sc., M.A., Ph.D. (Göttingen); Instruc-
tor in Mathematics, Cornell University, Ithaca, N. Y. *8 White Hall.*
[Sept., 1906.]

HUSSEY, WILLIAM J., B.Sc.; Professor of Astronomy and Director of the
Observatory, University of Michigan, Ann Arbor, Mich.; Professor
of Astronomy and Geodesy and Director of the Observatorio Nacional
de la Plata, Argentina. [Apr., 1891.]

HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of
the *Transactions of the American Mathematical Society;* Professor
of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
[Nov., 1896.]

HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance
Company, Cincinnati, Ohio. *814 Lincoln Avenue, Station D.* [May,
1891.]

INGOLD, LOUIS, M.A., Ph.D. (Chicago); Assistant Professor of Mathe-
matics, University of Missouri, Columbia, Mo. [Apr., 1904.]

IRWIN, FRANK, B.Sc., M.A., Ph.D. (Harvard); Instructor in Mathe-
matics, University of California, Berkeley, Cal. *2632 Haste Street.*
[Dec., 1908.]

JACKSON, DUNHAM, M.A., Ph.D. (Göttingen); Instructor in Mathematics,
Harvard University, Cambridge, Mass. *5 Conant Hall.* [Sept.,
1911.]

JACKSON, LAMBERT LINCOLN, M.A., Ph.D.; Head of the Educational
Department of D. Appleton and Company, New York, N. Y. *35
West 32nd Street.* [Dec., 1901.]

JACOBUS, DAVID S., M.E.; Advisory Engineer, The Babcock and Wilcox
Company, New York, N. Y.; Special Lecturer in Experimental

Engineering, Stevens Institute of Technology, Hoboken, N. J. *70 Summit Avenue, Jersey City, N. J.* [Jan., 1892.]

JAMES, GEORGE OSCAR, Ph.D. (Johns Hopkins); Assistant Professor of Mathematics and Astronomy, Washington University, St. Louis, Mo. [Sept., 1906.]

JOFFE, S. A., M.Sc.; Assistant Actuary of the Mutual Life Insurance Company of New York. *55 Cedar Street,* New York, N. Y. [Apr., 1897.]

JOHNSON, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, Missouri State Normal School, Cape Girardeau, Mo. [Sept., 1906.]

JOHNSON, WILLIAM WOOLSEY, M.A.; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md. [Mar., 1891.]

JONES, CECIL CHARLES, M.A., Ph.D. (New Brunswick), LL.D. (Toronto); Chancellor of the University of New Brunswick, Fredericton, N. B., Canada. [Apr., 1907.]

JONES, JOHN LEWIS, M.A., Ph.D. (Yale); Instructor in Mathematics, Cascadilla School, Ithaca, N. Y. [Oct., 1911.]

JORDAN, HERBERT EDWIN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. *1600 Kentucky Street.* [Feb., 1912.]

KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1315 Cambridge Road.* [Oct., 1904.]

*KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y. *22 West 119th Street.* [Oct., 1899.]

KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Professor of Mathematics, University of Missouri, Columbia, Mo. *1302 Keiser Avenue.* [Oct., 1903.]

KEMPNER, AUBREY JOHN, Ph.D. (Göttingen); Instructor in Mathematics, University of Illinois, Urbana, Ill. *902 West Illinois Street.* [Apr., 1912.]

KENNELLY, A. E., M.A., D.Sc.; Professor of Electrical Engineering, Harvard University, Cambridge, Mass. [Dec., 1891.]

KENT, FREDERICK CHARLES, B.A.; Associate Professor of Mathematics, University of Oklahoma, Norman, Okla. [Oct., 1911.]

KENYON, ALFRED MONROE, M.A.; Professor and Head of the Department of Mathematics, Purdue University, Lafayette, Ind. *315 University Street,* West Lafayette. [Dec., 1900.]

KEPPEL, HERBERT G., M.A., Ph.D. (Clark); Professor of Mathematics, University of Florida, Gainesville, Florida. [Aug., 1897.]

*KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); American Editorial Representative of the *Hibbert Journal;* Adrain Professor and Head of the Department of Mathematics, Columbia University, New York, N. Y. [Aug., 1897.]

KILLAM, S. DOUGLAS, M.A., Ph.D. (Göttingen); Instructor in Mathematics, University of Rochester, Rochester, N. Y. [Dec., 1912.]

KOCH, ERNEST HERMAN, JR., B.Sc.; Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. *874 South 15th Street, Newark, N. J.* [Apr., 1903.]

KRATHWOHL, WILLIAM CHARLES, M.A.; University of Chicago, Chicago, Ill. *6126 Lexington Avenue.* [Dec., 1907.]

KUHN, HARRY WALDO, Ph.D. (Cornell); Professor of Mathematics, Ohio State University, Columbus, Ohio. *405 East Town Street.* [Oct., 1901.]

KUSCHKE, CHARLES GUSTAVE PAUL, M.A., Mech.E., Ph.D. (California); Instructor in Mathematics, University of California, Berkeley, Cal. *2217 Fulton Street.* [Dec., 1910.]

*LADUE, POMEROY, B.Sc. Asheville, N. C. *38 Soco Street.* [Apr, 1894.]

LAMBERT, PRESTON ALBERT, M.A.; Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street,* Bethlehem, Pa. [Dec., 1893.]

LAMBERT, WALTER DAVIS, M.A.; U. S. Coast and Geodetic Survey, Washington, D. C. [Feb., 1906.]

LAMOND, JOHN KENYON, B.Sc., M.A., Ph.D. (Yale); Instructor in Mathematics, Wesleyan University, Middletown, Conn. *38 Brainerd Avenue.* [Apr., 1910.]

LANDIS, WILLIAM WEIDMAN, M.A., Sc.D.; Professor of Mathematics, Dickinson College, Carlisle, Pa. [Jan., 1897.]

LANZA, GAETANO, B.Sc., C. and M.E.; Emeritus Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Boston, Mass. *The Montevista, Philadelphia, Pa.* [Apr., 1898.]

LASKER, EMANUEL, Ph.D. (Erlangen). *Aschaffenburgerstrasse 6ª,* Berlin-Wilmersdorf, Germany. [Oct., 1906.]

LAVES, KURT, M.A., Ph.D. (Berlin); Associate Professor of Astronomy, University of Chicago, Chicago, Ill. [May, 1897.]

LEFSCHETZ, SOLOMON, Ph.D. (Clark); Instructor in Mathematics, University of Nebraska, Lincoln, Neb. [Dec. 1911.]

LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, University of California, Berkeley, Cal. *2736 Regent Street.* [Oct., 1900.]

LEIB, DAVID DEITCH, M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Yale University, New Haven, Conn. [Feb., 1909.]

LENNES, NELS JOHANN, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Columbia University, New York, N. Y. [Aug., 1903.]

LEONARD, HEMAN BURR, B.Sc., Ph.D. (Colorado); Professor of Mathematics, University of Oregon, Eugene, Ore. [Apr., 1905.]

LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Professor of Physics, University of Colorado, Boulder, Colo. *1121 Eleventh Street.* [Oct., 1904.]

LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D. (Honorary); Professor of Astronomy and Director of the Students' Observatory, University of California, Berkeley, Cal. *1816 Scenic Avenue.* [Feb., 1892.]

LEVI-CIVITA, TULLIO, Math.D. (Padua); Editor of the *Bulletin of the American Mathematical Society;* Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate, 14.* [Sept., 1904.]

LEWIS, FLORENCE PARTHENIA, M.A.; Assistant Professor of Mathematics, Goucher College, Baltimore, Md. [Sept., 1912.]

LIGHT, GEORGE HEYSER, M.A.; Instructor in Mathematics, Purdue University, Lafayette, Ind. [Dec., 1911.]

LINEHAN, PAUL HENRY, B.A.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *607 West 138th Street.* [Sept., 1908.]

LING, GEORGE HERBERT, Ph.D. (Columbia); Professor of Mathematics, and Dean of the Faculty of Arts and Science, University of Saskatchewan, Saskatoon, Canada. [June, 1894.]

LIPKE, JOSEPH, B.Sc., M.A., Ph.D. (Columbia); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Apr., 1907.]

LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, and Dean of the College of Engineering, University of Idaho, Moscow, Id. [Dec., 1900.]

LOCKE, LESLIE LELAND, M.A. *950 St. John's Place,* Brooklyn, N. Y. [June, 1900.]

LONGLEY, WILLIAM RAYMOND, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, Yale University, New Haven, Conn. *261 Willow Street.* [Apr., 1906.]

LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); President of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.* [Feb., 1901.]

LOVE, JAMES LEE, M.A.; Director of the Provident Teachers Agency, *120 Tremont Street,* Boston, Mass. [Apr., 1891.]

*Lovett, Edgar Odell, M.A., Ph.D. (Virginia, Leipzig), LL.D. (Drake, Tulane); President of the Rice Institute, Houston, Texas. [Oct., 1894.]

Lovitt, William Vernon, B.A., Ph.M.; Instructor in Mathematics, University of Washington, Seattle, Wash. [Sept., 1911.]

Lowber, James William, M.A., Ph.D., D.Sc., LL.D.; *1706 Brazos Street,* Austin, Texas. [Feb., 1905.]

Luby, William A., B.A.; Head of the Department of Mathematics, Central High School, Kansas City, Mo. [Feb., 1906.]

*Ludlow, Henry Hunt, Graduate of the U. S. Military Academy; Colonel, U. S. Coast Artillery. Fort Moultrie, S. C. [Nov., 1896.]

Lunn, Arthur C., M.A., Ph.D. (Chicago); Assistant Professor of Applied Mathematics, University of Chicago, Chicago, Ill. [Feb., 1903.]

Lyman, Elmer A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.* [Oct., 1894.]

Lytle, Ernest Barnes, B.Sc., M.A., Ph.D. (Yale); Associate in Mathematics, University of Illinois, Urbana, Ill. *603 South Orchard Street.* [Dec., 1904.]

McClenon, Raymond Benedict, B.A., Ph.D. (Yale); Associate Professor of Mathematics, Grinnell College, Grinnell, Ia. *1402 Elm Street.* [Apr., 1905.]

*McClintock, Emory, M.A., Ph.D., LL.D.; Ex-President; Consulting Actuary of the Mutual Life Insurance Company of New York. *2305 De Lancey Street, Philadelphia, Pa.* [Dec., 1889.]

McCormack, Thomas Joseph, LL.B., M.A.; Principal of the La Salle-Peru High School, La Salle, Ill. [Aug., 1903.]

McDonald, John Hector, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.* [Apr., 1902.]

McEwen, George Francis, B.A., Ph.D. (Stanford); Hydrographer of the Scripps Institution for Biological Research of the University of California. La Jolla, Cal. *P. O. Box 171.* [Sept., 1910.]

McKelvey, Joseph Vance, M.A., Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *405 College Avenue.* [Oct., 1909.]

McKinney, Thomas Emery, M.A., Ph.D. (Chicago); Professor of Mathematics and Astronomy, University of South Dakota, Vermillion, S. D. [Nov., 1895.]

McMahon, James, M.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.* [Apr., 1891.]

McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill. [Apr., 1891.]

*MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Associate Editor of the *Mathematical Gazette. The Chesters, Vicarage Road,* East Sheen, London, S. W., England. [Dec., 1898.]

MACDILL, LESLIE, M.A.; Second Lieutenant, Coast Artillery Corps, Fort Hamilton, Brooklyn, N. Y. [Sept., 1912.]

MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; President of the Association for Promoting Quaternions and Allied Mathematics. *317 Victoria Avenue,* Chatham, Ontario, Canada. [May, 1891.]

MACGREGOR, HAZEL HOPE, B.Sc., M.A.; Instructor in Mathematics, University of Kansas, Lawrence, Kan. *1345 Tennessee Street.* [Oct., 1909.]

MACINNES, CHARLES RANALD, M.A., Ph.D. (Johns Hopkins); Preceptor in Mathematics, Princeton University, Princeton, N. J. [Feb., 1911.]

MACLAGAN-WEDDERBURN, JOSEPH H., M.A., D.Sc.; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *95 Mercer Street.* [Feb., 1905.]

MACLAURIN, RICHARD COCKBURN, M.A., Sc.D., LL.D. (Cambridge); President of the Massachusetts Institute of Technology, Boston, Mass. [Apr., 1908.]

MACLAY, JAMES, C.E., Ph.D. (Columbia); Professor of Mathematics, Columbia University, New York, N. Y. [Nov., 1888.]

MACMILLAN, WILLIAM DUNCAN, M.A., Ph.D. (Chicago); Assistant Professor of Astronomy, University of Chicago, Chicago, Ill. *5407 Woodlawn Avenue.* [Apr., 1906.]

MACNEILL, MURRAY, M.A.; Professor of Mathematics, Dalhousie University, Halifax, Nova Scotia, Canada. [Dec., 1907.]

MACNEISH, HARRIS FRANKLIN, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *352 Temple Street.* [Sept., 1908.]

MADDISON, ISABEL, B.Sc., Ph.D. (Bryn Mawr); Recording Dean and Assistant to the President, Bryn Mawr College, Bryn Mawr, Pa. [Jan., 1897.]

MAGLOTT, MRS. EVA SISSON, M.A., C.E.; Professor of Mathematics, Ohio Northern University, Ada, Ohio. *516 South Simon Street.* [Feb., 1911.]

MAHONEY, JAMES OWEN, B.E., M.Sc.; Teacher of Mathematics, High School, Dallas, Texas. *1900 Crockett Street.* [Sept., 1907.]

MALTBIE, WILLIAM HENRY, M.A., LL.B., Ph.D. (Johns Hopkins) Attorney at Law. *626 Equitable Building,* Baltimore, Md. [Aug. 1897.]

MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen). Moore, Mont. [June, 1900.]

MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Associate Professor of Physics, University of Chicago, Chicago, Ill. [Nov., 1891.]

MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Associate Professor of Pure Mathematics, Brown University, Providence, R. I. [Nov., 1891.]

MANNING, WILLIAM ALBERT, M.A., Ph.D. (Stanford); Assistant Professor of Applied Mathematics, Stanford University, Cal. [Oct., 1903.]

MARCH, HERMAN WILLIAM, M.A., Ph.D. (Munich); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *625 Langdon Street.* [Sept., 1912.]

MARKLEY, JOSEPH LYBRAND, M.A., Ph.D. (Harvard); Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *Geddes and Oxford Road.* [June, 1891.]

MARSHALL, WILLIAM, M.Sc., Ph.D. (Zurich); Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *514 South Tenth Street.* [Feb., 1909.]

MARTIN, ARTEMAS, M.A., Ph.D., LL.D.; Coast and Geodetic Survey, Washington, D. C. *918 N Street, N. W.* [Apr., 1891.]

MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr); Associate Professor of Mathematics, Mount Holyoke College, South Hadley, Mass. [Dec., 1899.]

MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Professor of Mechanics and Dean, Stevens Institute of Technology, Hoboken, N. J. *911 Castle Point Terrace.* [Dec., 1903.]

*MASON, MAX, B.L., Ph.D. (Göttingen); Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematical Physics, University of Wisconsin, Madison, Wis. [Oct., 1903.]

MATHEWS, ROBERT MAURICE, B.A.; Instructor in Mathematics, Polytechnic High School, Riverside, Cal. *238 Bandini Street.* [Apr., 1910.]

MELCHER, GEORGE, B.A.; Head of the Department of Mathematics, State Normal School, Springfield, Mo. *600 Broadway, Jefferson City, Mo.* [Apr., 1909.]

MENDIZÁBAL-TAMBORREL, JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Captain of Engineer Corps. *Sociedad ''Alzate,'' Palma No. 13,* Mexico, D. F., Mexico. [Mar., 1892.]

*MERRILL, HELEN, ABBOT, B.A., Ph.D. (Yale); Associate Professor of Mathematics, Wellesley College, Wellesley, Mass. [Oct., 1903.]

MERRIMAN, MANSFIELD, Ph.D., Sc.D.; Consulting Engineer. *1071 Madison Avenue*, New York, N. Y. [Apr., 1891.]

MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Actuary of the Travelers Insurance Company, Hartford, Conn. [June, 1889.]

MESSICK, JOHN FREDERICK, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala. [Sept., 1907.]

*METZLER, WILLIAM H., B.A., Ph.D. (Clark); Editor of the *Mathematics Teacher;* Associate Editor of the *Journal of Pedagogy;* Francis H. Root Professor of Mathematics and Dean of the Graduate School, Syracuse University, Syracuse, N. Y. *760 Comstock Avenue.* [Oct., 1891.]

MIKESH, JAMES STEPHEN, B.A.; Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. [Feb., 1910.]

MILES, EGBERT J., M.A., Ph.D. (Chicago); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *115 Brownell Street.* [Apr., 1908.]

MILLER, ERNEST ALLEN, B.Sc., M.A.; *113 North Tioga Street*, Ithaca, N. Y. [Oct., 1903.]

MILLER, FRANK ELLSWORTH, M.A., Ph.D.; Professor of Mathematics, Otterbein University, Westerville, Ohio. [Apr., 1910.]

*MILLER, GEORGE A., Ph.D.; Editor of the *American Mathematical Monthly;* Professor of Mathematics, University of Illinois, Urbana, Ill. *1103 West Illinois Street.* [Apr., 1898.]

MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa. [Oct., 1899.]

MILNE, WILLIAM J., M.A., Ph.D., LL.D.; President of the New York State Normal College, Albany, N. Y. *5 Elk Street.* [Feb., 1906.]

MITCHELL, HENRY BEDINGER, E.E., M.A.; Professor of Mathematics, Columbia University, New York, N. Y. *The Benedick, 80 Washington Square East.* [Dec., 1900.]

MITCHELL, HOWARD HAWKS, B.Ph., Ph.D. (Princeton); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Oct., 1909.]

MITCHELL, ULYSSES GRANT, M.A., Ph.D. (Princeton); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. *1313 Massachusetts Street.* [Oct., 1909.]

MONTGOMERY, WILLIAM JOHN, M.A., Ph.D. (Clark); State Actuary of the Commonwealth of Massachusetts, Boston, Mass. *161 Devonshire Street.* [Oct., 1910.]

MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.* [May, 1891.]

MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A., Ph.D. (Cornell); Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Feb., 1903.]

MOORE, CHARLES NAPOLEON, B.A., M.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *1123 East Third Street.* [Dec., 1907.]

*MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary), LL.D. (Wisconsin), Sc.D. (Yale), Math.D. (Clark); EX-PRESIDENT; Editor of the *Rendiconti del Circolo Matematico di Palermo;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.* [May, 1891.]

MOORE, ROBERT LEE, B.Sc., M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *5936 Washington Avenue.* [Oct., 1906.]

MOREHEAD, JAMES CADDALL, M.A., M.Sc., Ph.D. (Yale); Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.* [Apr., 1905.]

MORENO, HALCOTT C., M.A., Ph.D. (Clark); Associate Professor of Applied Mathematics, Stanford University, Cal. [Apr., 1902.]

MORGAN, FRANK MILLETT, M.A., Ph.D. (Cornell); Instructor in Mathematics, Dartmouth College, Hanover, N. H. *5 Prospect Street.* [Oct., 1912.]

MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Nebraska), Ph.N.D. (Strassburg); Professor and Head of the Department of Mathematics, University of Washington, Seattle, Wash. [Dec., 1904.]

MORLEY, FRANK, M.A., Sc.D. (Cambridge); Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md. [May, 1891.]

MORRIS, CHARLES CLEMENTS, M.A.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. [Oct., 1910.]

MORRIS, RICHARD, M.Sc., Ph.D. (Cornell); Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. *94 Easton Avenue.* [Feb., 1906.]

MORRISON, FRANK MARION, B.A.; Assistant Professor of Mathematics, University of Washington, Seattle, Wash. *4719 Fifteenth Avenue, N. E.* [Apr., 1904.]

MORROW, EMERSON BOYD, M.A.; Senior Master and Head of the Department of Mathematics, Gilman Country School for Boys, Baltimore, Md. [Sept., 1906.]

MOULTON, ELTON JAMES, B.Sc., M.A.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *820 Hamline Street.* [Apr., 1911.]

MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Associate Professor of Astronomy, University of Chicago, Chicago, Ill. [Feb., 1900.]

*MUKHOPÂDHYÂY ASUTOSH, M.A., LL.D.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta, India. [Dec., 1900.]

MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Girls' High School, Brooklyn, N. Y. *Nostrand Avenue.* [Oct., 1898.]

MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Applied Mathematics, McGill University, Montreal, Canada. [Dec., 1890.]

MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Departmental Editor of *School Science and Mathematics;* Professor of the Teaching of Mathematics, and Mathematical Supervisor of the School of Education, University of Chicago, Chicago, Ill. *1953 East 72nd Street (Bryn Mawr).* [Apr., 1904.]

NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Washington, Seattle, Wash. [Aug., 1903.]

NELSON, ALFRED BRIERLEY, M.A., M.D.; Emeritus Professor of Mathematics, Central University, Danville, Ky. *443 West Lexington Avenue.* [June, 1891.]

NEWCOMER, HARRY SIDNEY, M.A.; *Schreiberstrasse 14,* Freiburg i. B., Germany. [Oct., 1910.]

NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Assistant Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. [Dec., 1904.]

NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1620 Massachusetts Street,* Lawrence, Kan. [Jan., 1897.]

NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Engineer, State Engineer's Office, Clinton, N. Y. [Aug., 1899.]

NICHOLS, WALTER SMITH, M.A; Editor of the *Insurance Monitor* and the *Insurance Law Journal;* Consulting Actuary. *100 William Street,* New York, N. Y. [Dec., 1900.]

NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, University of California, Berkeley, Cal. *2224 Piedmont Avenue.* [Dec., 1899.]

NOWLAN, FREDERICK STANLEY, M.A.; Columbia University, New York, N. Y. *Livingston Hall.* [Feb., 1912.]

OBEAR, GEORGE BARROWS, M.Sc., Ph.D.; Professor of Physics, Colby College, Waterville, Me. [Sept., 1906.]

OLDS, GEORGE DANIEL, M.A., LL.D.; Professor of Mathematics, Amherst College, Amherst, Mass. [Dec., 1891.]

OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics Emeritus, Massachusetts Institute of Technology, Boston, Mass. [Apr., 1891.]

OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen), LL.D. (Clark); EX-PRESIDENT; Editor of the *Rendiconti del Circolo Matematico di Palermo;* Professor of Mathematics, Harvard University, Cambridge, Mass. *74 Avon Hill Street.* [Feb., 1895.]

O'SHAUGHNESSY, LOUIS, C.E., M.A., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *Box 6, College Hall.* [Oct., 1912.]

OWENS, FREDERICK W., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *37 West Avenue, Cornell Heights.* [Apr., 1906.]

PAGE, JAMES MORRIS, M.A., Ph.D. (Leipzig); Professor of Mathematics and Dean of the University of Virginia, Charlottesville, Va. [Dec., 1900.]

PAINE, GEORGE PORTER, M.A.; Assistant Professor of Mathematics, Middlebury College, Middlebury, Vt. *20 South Street.* [Feb., 1910.]

PALMER, ERIK SCHJÖTH, Ph.B.; Professor of Mathematics, Rollins College, Winter Park, Fla. [Dec., 1911.]

PALMER, THOMAS WAVERLY, M.A., LL.D.; President of the Alabama Girls Technical Institute, Montevallo, Ala. [Feb., 1907.]

PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *422 Mayfield Road.* [May, 1897.]

*PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Head of the Department of Science and Professor of Physics, West Philadelphia High School for Boys, Philadelphia, Pa. *48th and Walnut Streets.* [Mar., 1894.]

PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton, honorary); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa. [Dec., 1896.]

PATTILLO, NATHAN ALLEN, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Randolph-Macon Woman's College, Lynchburg, Va. [Feb., 1907.]

PEDERSEN, FREDERICK MALLING, E.E., D.Sc.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. *452 West 144th Street.* [Sept., 1906.]

PEED, MANSFIELD THEODORE, M.A.; Professor of Pure Mathematics and Astronomy, Emory College, Oxford, Ga. [Oct., 1908.]

PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig), Sc.D. (Harvard); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *Jefferson Physical Laboratory.* [May, 1891.]

PELL, ALEXANDER, Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Armour Institute, Chicago, Ill. [Oct., 1898.]

PELL, ANNA JOHNSON (MRS. ALEXANDER), Ph.D. (Chicago); Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. [Feb., 1906.]

PEMBERTON, WALKER S., B.Sc.; Professor of Mathematics, Wheaton College, Wheaton, Ill. *814 College Avenue.* [Feb., 1908.]

PETTEGREW, DAVID LYMAN. *P. O. Box 75,* Worcester, Mass. [Oct., 1893.]

PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Emeritus Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *324 York Street.* [Nov., 1896.]

PHILLIPS, HENRY BAYARD, B.Sc., Ph.D. (Johns Hopkins); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Feb., 1906.]

PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Assistant Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. *1027 Ferdon Road.* [Aug., 1903.]

PIERPONT, JAMES, Ph.D. (Vienna), LL.D. (Clark); Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.* [Oct., 1894.]

PITCHER, ARTHUR DUNN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. [Oct., 1910.]

PLANT, LOUIS CLARK, Ph.M.; Professor of Mathematics, University of Montana, Missoula, Mont. *412 Eddy Avenue.* [Oct., 1911.]

PLIMPTON, GEORGE ARTHUR, B.A., LL.D.; President of the Board of Trustees, Amherst College; Trustee of Constantinople College and of Phillips Exeter Academy; Treasurer of the Academy of Political Science; Treasurer of Barnard College. Ginn and Company, *70 Fifth Avenue,* New York, N. Y. [Feb., 1905.]

PONZER, ERNEST WILLIAM, M.Sc.; Assistant Professor of Applied Mathematics, Stanford University, Cal. [Feb., 1905.]

POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Professor of Celestial Mechanics, Columbia University, New York, N. Y. *35 Thomas Street.* [Dec., 1890.]

POOR, JOHN MERRILL, B.A., Ph.D. (Princeton); Assistant Professor of Astronomy, Dartmouth College, Hanover, N. H. [Sept., 1905.]

POOR, VINCENT COLLINS, B.A., M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1018 Church Street.* [Apr., 1912.]

PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Professor of Mathematics, University of Texas, Austin, Texas. [Feb., 1897.]

POSEY, FRANCIS DUNNINGTON, B.A. *409 Higgins Building,* Los Angeles, Cal. [Feb., 1907.]

POWELL, H. WHEELER, B.Sc.; Tutor in Mathematics, College of the City of New York. *St. Nicholas Terrace,* New York, N. Y. [Sept., 1907.]

POWERS, RALPH ERNEST. Treasurer's Office, Denver and Rio Grande Railroad Company, Denver, Colo. [Oct., 1911.]

PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *7 Grant Avenue, Highland Park.* [May, 1892.]

*PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin), Sc.D. (Columbia, honorary); Professor of Electro-Mechanics, Columbia University, New York, N. Y. [Dec., 1889.]

PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. [Apr., 1902.]

PUTNAM, WILLIAM LOWELL, B.A., LL.B.; Attorney at Law; Chairman of the Committee appointed by the Overseers of Harvard University to visit the Department of Mathematics. *60 State Street,* Boston, Mass. [Feb., 1910.]

RAGSDALE, VIRGINIA, B.A., Ph.D. (Bryn Mawr). Jamestown, N. C. [Dec., 1903.]

RANUM, ARTHUR, Ph.D. (Chicago); Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *113 Osmun Place.* [Oct., 1904.]

RASOR, S. EUGENE, M.A., M.Sc.; Associate Professor of Mathematics, Ohio State University, Columbus, Ohio. [Dec., 1903.]

RAYSON, AMY, M.A.; Joint Principal of School for Girls, New York, N. Y. *168 West 75th Street.* [Dec., 1891.]

RAYWORTH, JOSEPH CHAPPELL, M.A.; Instructor in Mathematics, Washington University, St. Louis, Mo. [Sept., 1911.]

REAVES, SAMUEL WATSON, B.Sc., M.A.; Professor of Mathematics, University of Oklahoma, Norman, Okla. *407 Boyd Street*. [Feb., 1908.]

*REDDICK, HARRY WILFRED, M.A., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y. *Livingston Hall*. [Feb., 1905.]

REGIS, BROTHER FRANCIS, M.A.; Professor of Mathematics, Christian Brothers College, St. Louis, Mo. [Apr., 1907.]

REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Professor of Mathematics, Haverford College, Haverford, Pa. [Apr., 1900.]

REYNOLDS, FREDERICK GREGORY, LL.B., Sc.D.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. *St. Nicholas Terrace*. [Feb., 1903.]

RICE, CHARLES MOEN, B.A. *P. O. Box 215*, Worcester, Mass. [Apr., 1893.]

RICHARDSON, MICHAEL RALPH, M.A.; University of Chicago, Chicago, Ill. *5514 Madison Avenue*. [Sept., 1912.]

*RICHARDSON, R. G. D., B.A., Ph.D. (Yale); Associate Professor of Mathematics, Brown University, Providence, R. I. [Apr., 1905.]

RICHARDSON, SOPHIA FOSTER, B.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y. [Apr., 1905.]

*RICHMOND, HERBERT WILLIAM, M.A.; University Lecturer, Fellow and Mathematical Lecturer of King's College, Cambridge University, Cambridge, England. [Aug., 1899.]

RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Associate Professor of Mathematics and Statistician of the Agricultural Experiment Station, University of Illinois, Urbana, Ill. *708 South Goodwin Avenue*. [Oct., 1902.]

RIGGS, NORMAN C., M.Sc.; Associate Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. [Apr., 1903.]

RISLEY, WALTER JOHN, B.Sc., M.A.; Professor of Mathematics, James Millikin University, Decatur, Ill. *1340 West Macon Street*. [Apr., 1906.]

ROBERTS, MARIA M., B.L.; Associate Professor of Mathematics and Vice-Dean of the Junior Colleges, Iowa State College, Ames, Ia. [Dec., 1907.]

ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Emeritus Professor of Mathematics, Princeton University, Princeton, N. J. [May, 1891.]

ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *123 West Ostrander Avenue*. [Apr., 1896.]

ROE, JOSEPHINE ROBINSON (MRS. E. D.), M.A.; *123 West Ostrander Avenue,* Syracuse, N. Y. [Sept., 1910.]

ROEVER, WILLIAM HENRY, B.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, Washington University, St. Louis, Mo. [Apr., 1902.]

ROOSEVELT, GEORGE EMLEN, B.A. *33 Wall Street,* New York, N. Y. [Oct., 1908.]

ROOT, RALPH EUGENE, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Missouri, Columbia, Mo. *1615 Canthorn Avenue.* [Feb., 1911.]

RORER, JONATHAN TAYLOR, B.A., Ph.D. (Pennsylvania); Head of the Department of Mathematics, William Penn High School and Central Evening High School, Philadelphia, Pa. *333 North 34th Street.* [Dec., 1912.]

ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipzig); Professor of Mathematics, Indiana University, Bloomington, Ind. *1000 Atwater Avenue.* [Feb., 1897.]

ROWE, JOSEPH EUGENE, M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Dartmouth College, Hanover, N. H. *5 College Street.* [Apr., 1910.]

RUNNING, THEODORE RUDOLPH, M.Sc., Ph.D. (Wisconsin); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1019 Michigan Avenue.* [Feb., 1904.]

RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Grinnell College, Grinnell, Ia. *1022 Park Street.* [Aug., 1903.]

RUSSELL, WILLIAM POLK, M.A.; Associate Professor of Mathematics, Pomona College, Claremont, Cal. [Oct., 1906.]

RUTLEDGE, GEORGE, B.A.; Research Assistant in Mathematics, University of Illinois, Urbana, Ill. *902 West Illinois Street.* [Oct., 1910.]

SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.* [Aug., 1898.]

SAUREL, PAUL LOUIS, D.Sc. (Bordeaux); Associate Professor of Mathematics, College of the City of New York, New York, N. Y. *St. Nicholas Terrace.* [Dec., 1897.]

SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Mathematics, University of Alabama, University, Ala. [Nov., 1891.]

SCARBOROUGH, JAMES HARRIS, M.Sc., M.A., Ph.D.; Professor of Mathematics, Missouri State Normal School, Warrensburg, Mo. [Oct., 1906.]

*SCHMIEDEL, OSCAR, B.Sc., M.A.; Professor of Mathematics, Bellevue College, Bellevue, Neb. [Feb., 1892.]

SCHOTTENFELS, IDA MAY, M.A. *447 East 49th Street,* Chicago, Ill. [Oct., 1900.]

SCHWATT, ISAAC JOACHIM, Ph.D.; Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. [Oct., 1893.]

SCHWEITZER, ARTHUR RICHARD, B.Ph., M.Sc. *452 Oakdale Avenue,* Chicago, Ill. [Feb., 1906.]

SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Co-editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa. [May, 1891.]

SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, So. Dak. [Oct., 1902.]

SEARLE, REV. GEORGE MARY, M.A., Ph.D.; Catholic University, Washington, D. C. [June, 1889.]

SEE, THOMAS JEFFERSON JACKSON, M.A., M.Sc., Ph.D. (Berlin); Professor of Mathematics, U. S. Navy, Mare Island, Cal. *Naval Observatory.* [Aug., 1895.]

SÉGUIER, JEAN ARMAND MARIE JOSEPH DE, D.Sc. *56 Rue des Saints Pères,* Paris, France. [Feb., 1902.]

SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill. [Aug., 1899.]

SHARPE, FRANCIS ROBERT, B.A., Ph.D. (Cornell); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *213 Mitchell Street.* [Apr., 1905.]

SHATTUCK, SAMUEL WALKER, C.E., LL.D.; Professor of Mathematics, University of Illinois, Champaign, Ill. [Apr., 1891.]

SHAW, JAMES BYRNIE, M.Sc., D.Sc.; Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. [Mar., 1894.]

SHELDON, ERNEST WILSON, M.A., Ph.D. (Yale); Professor of Mathematics, University of Alberta, Strathcona, Alberta, Canada. [Dec., 1907.]

SHEPARD, ELMER I., M.A.; Assistant Professor of Mathematics, Williams College, Williamstown, Mass. [Dec., 1906.]

SHORT, ROBERT L., B.A.; Principal of the West Technical High School, Cleveland, Ohio. [Sept., 1906.]

SHUMWAY, ROYAL R., B.A.; Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. *716 Twelfth Avenue, S. E.* [Oct., 1909.]

SICELOFF, LEWIS PARKER, B.A., Ph.D. (Columbia); Assistant Professor of Mathematics, Columbia University, New York, N. Y. [Oct., 1906.]

SILVERMAN, LOUIS LAZARUS, M.A., Ph.D. (Missouri); Instructor in Mathematics, Cornell University, Ithaca, N. Y. [Feb., 1908.]

SIMPSON, CHARLES GAMBLE, B.Ph., M.A. *505 West 122nd Street,* New York, N. Y. [Feb., 1906.]

SIMPSON, THOMAS MARSHALL, M.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis. *308 Breeze Terrace.* [Oct., 1911.]

SINCLAIR, MARY EMILY, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. [Feb., 1905.]

*SISAM, CHARLES HERSCHEL, Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *609 South Busey Avenue.* [Oct., 1904.]

SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Associate Professor of Mathematics, University of Wisconsin, Madison, Wis. *210 Lathrop Street.* [Aug., 1899.]

SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago), Sc.D. (honorary, Colgate); Editor of the *American Mathematical Monthly;* Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5548 Monroe Avenue.* [Oct., 1899.]

*SLICHTER, CHARLES S., M.Sc.; Consulting Engineer, U. S. Reclamation Service; Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. *636 Frances Street.* [May, 1891.]

SLOBIN, HERMON LESTER, B.A., Ph.D. (Clark); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. [Oct., 1909.]

SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Professor of Applied Mathematics, University of Cincinnati, Cincinnati, Ohio. [Apr., 1901.]

SMAIL, LLOYD LEROY, M.A.; Fellow in Mathematics, Columbia University, New York, N. Y. *510 West 124th Street.* [Sept., 1911.]

SMITH, ARTHUR WHIPPLE, M.Sc., Ph.D. (Chicago); Associate Professor of Mathematics, Colgate University, Hamilton, N. Y. [Feb., 1905.]

*SMITH, CLARA ELIZA, B.A., Ph.D. (Yale); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *90 Shafer Hall.* [Sept., 1904.]

*SMITH, DAVID EUGENE, M.Ph., Ph.D., LL.D.; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y. [Oct., 1893.]

SMITH, EDWIN RAYMOND, M.A., Ph.D. (Munich); Assistant Professor of Mathematics, Pennsylvania State College, State College, Pa. [Dec., 1911.]

SMITH, EUGENE RANDOLPH, M.A.; Associate Editor of the *Mathematics Teacher;* Headmaster of the Park School, Baltimore, Md. [Apr., 1898.]

SMITH, EVA MARIA, B.A.; Associate of Newnham College, Cambridge, England; Lecturer in Mathematics, Ladies' College, Cheltenham, England. [Dec., 1909.]

SMITH, FRANKLIN HANS, M.A.; Instructor in Mathematics, Eastern District High School, Brooklyn, N. Y. *414 West 120th Street, New York, N. Y.* [Oct., 1905.]

SMITH, GERTRUDE, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y. [Feb., 1907.]

SMITH, IRVIN WEBSTER, M.A.; Assistant Professor of Mathematics, College of Agriculture and Mechanic Arts, Fargo, N. Dak. *1108 Tenth Street North.* [Oct., 1909.]

SMITH, JAMES BROOKES, M.A.; Professor of Mathematics, Hampden Sidney College, Hampden Sidney, Va. [Feb., 1909.]

SMITH, PERCY F., Ph.D.; Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *330 Willow Street.* [Nov., 1891.]

SMITH, SARAH EFFIE, B.Sc.; Professor of Mathematics, Mount Holyoke College, South Hadley, Mass. [Feb., 1911.]

SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen), LL.D. (Kentucky); Professor of Philosophy, Tulane University, New Orleans, La. [Apr., 1891.]

SMITH, WILLIAM MACKEY, B.Ph., Ph.D. (Columbia); Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. [Feb., 1908.]

SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Dean of the University and Professor of Mathematics, University of Georgia, Athens, Ga. *P. O. Box 283.* [Oct., 1904.]

SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *261 Broadway, New York, N. Y.* [Dec., 1889.]

SNYDER, MONROE BENJAMIN, M.A.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.* [Apr., 1895.]

SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Cornell University, Ithaca, N. Y. *214 University Avenue.* [Nov., 1896.]

SPARROW, CARROLL MASON, B.A., Ph.D.; Adjunct Professor of Physics, University of Virginia, Charlottesville, Va. [Feb., 1909.]

SPITZER, GEORGE, B.Sc.; Dairy Chemist, Purdue University Agricultural Experiment Station, Lafayette, Ind. [Apr., 1911.]

SPUNAR, VALENTIN MAX, Mech.E., E.E.; Western Electric Company, Chicago, Ill. *1135 West Chicago Avenue.* [Feb., 1910.]

STAGER, HENRY WALTER, M.A., Ph.D. (California); Head of the Department of Mathematics, Fresno Junior College, Fresno, Cal. *3036 Fresno Street.* [Feb., 1908.]

STAMPER, ALVA WALKER, B.Sc., M.A., Ph.D. (Columbia); Head of the Department of Mathematics, State Normal School, Chico, Cal. *326 Salem Street.* [Feb., 1906.]

*STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Associate Professor of Mathematics, Pennsylvania State College, State College, Pa. *306 Mills Street.* [Nov., 1894.]

STEINMETZ, CHARLES PROTEUS, Ph.D.; Chief Consulting Engineer of the General Electric Company; Professor of Electrical Engineering, Union University, Schenectady, N. Y. *Wendell Avenue.* [Jan., 1891.]

STÉPHANOS, CYPARISSOS, Ph.D. (Athens), D.Sc. (Paris); Professor of Mathematics, University of Athens, Athens, Greece. *20 Rue de Solon.* [Oct., 1906.]

STEPHENS, ROSWELL POWELL, B.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, University of Georgia, Athens, Ga. [Apr., 1906.]

STONE, JOHN C., M.A.; Head of the Department of Mathematics, State Normal School, Montclair, N. J. *653 Valley Road.* [Sept., 1908.]

STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Emeritus Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia. Manassas, Va. [May, 1891.]

STONE, RALPH BUSHNELL, M.A.; Instructor in Mathematics, Purdue University, Lafayette, Ind. *629 Russell Street,* West Lafayette. [Apr., 1912.]

STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Professor of Mathematics, Clark University, Worcester, Mass. [Feb., 1897.]

STOUFFER, ELLIS BAGLEY, M.Sc., Ph.D. (Illinois); Instructor in Mathematics, University of Illinois, Urbana, Ill. *711 West Illinois Street.* [Sept., 1911.]

STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Professor of Mathematics, University of Wyoming, Laramie, Wy. *12th and Thornburg Streets.* [Feb., 1903.]

STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Editor of the *Transactions of the Actuarial Society of America;* Associate Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street.* [Dec., 1895.]

STUDY, EDUARD, Ph.D.; Professor of Mathematics, University of Bonn, Bonn, Germany. *Argelanderstrasse 126.* [Oct., 1904.]

SULLIVAN, CHARLES THOMPSON, B.A., M.Sc., Ph.D. (Chicago); Lecturer in Mathematics, McGill University, Montreal, Canada. *Engineering Building.* [Oct., 1912.]

SWARTZEL, KARL DALE, M.Sc.; Professor of Mathematics, Ohio State University, Columbus, Ohio. *1952 Iuka Avenue.* [Apr., 1903.]

*SWIFT, ELIJAH, M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Assistant Professor, Preceptor in Mathematics, Princeton University, Princeton, N. J. *80 Murray Place.* [Apr., 1904.]

*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Professor of Mathematics, Clark University, Worcester, Mass. [May, 1891.]

*TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.* [Nov., 1896.]

TAYLOR, EDSON HOMER, B.Sc., M.A., Ph.D. (Harvard); Teacher of Mathematics, Eastern Illinois State Normal School, Charleston, Ill. [Oct., 1903.]

TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y. [Apr., 1891.]

TAYLOR, WILLIAM ERASTUS, M.Ph., Ph.D. (Syracuse); Professor of Applied Mathematics, College of Applied Science, Syracuse University, Syracuse, N. Y. *822 Irving Avenue.* [Feb., 1903.]

THOMAS, EVAN, B.Sc.; Assistant Professor of Mathematics, University of Vermont, Burlington, Vt. [Oct., 1911.]

*THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.* [Apr., 1891.]

THOMPSON, JOHN SPENCER, M.A.; Assistant Actuary of the Mutual Life Insurance Company, *32 Nassau Street,* New York, N. Y. [Apr., 1908.]

THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *2 University Park.* [Jan., 1897.]

TORY, HENRY M., M.A., D.Sc., LL.D.; President of the University of Alberta, Canada. [Oct., 1901.]

TOUTON, FRANK CHARLES, B.Ph.; Principal of the Central High School, St. Joseph, Mo. [Feb., 1906.]

TOWNSEND, EDGAR JEROME, M.A., Ph.D. (Göttingen); Professor of Mathematics and Dean of the College of Science, University of Illinois, Champaign, Ill. *510 John Street.* [Nov., 1895.]

TRACEY, JOSHUA IRVING, B.Sc., Ph.D. (Johns Hopkins); Instructor in Mathematics, Yale University, New Haven, Conn. *761 Yale Station.* [Sept., 1912.]

TRAVIS, JOHN FRANCIS, M.A. *3927 Forbes Street*, Pittsburgh, Pa. [Dec., 1905.]

TRIPP, MYRON OWEN, B.Sc., B.A., Ph.D. (Columbia); Instructor in Mathematics, High School of Commerce, New York, N. Y. *90 Sedgwick Avenue, Yonkers, N. Y.* [Feb., 1906.]

TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Aug., 1894.]

UNDERHILL, ANTHONY LISPENARD, B.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. *615 Sixth Street, S. E.* [Feb., 1907.]

UPTON, CLIFFORD BREWSTER, M.A.; Assistant Professor of Mathematics and Secretary, Teachers College, Columbia University, New York, N. Y. [Aug., 1903.]

URNER, SAMUEL EVERETT, Ph.B., Ph.D. (Harvard); Assistant Professor of Mathematics, Miami University, Oxford, Ohio. [Sept., 1911.]

VAN AMRINGE, J. HOWARD, M.A., Ph.D., L.H.D., LL.D.; EX-PRESIDENT; Emeritus Professor of Mathematics, Columbia University, New York, N. Y. *48 West 59th Street.* [Nov., 1888.]

VAN BENSCHOTEN, ANNA LAVINIA, M.Sc., Ph.D. (Cornell); Professor of Mathematics, Wells College, Aurora, N. Y. [Oct., 1903.]

VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.* [Feb., 1902.]

VAN DER VRIES, JOHN NICHOLAS, M.A., Ph.D. (Clark); Associate Professor of Mathematics, University of Kansas, Lawrence, Kan. [Sept., 1911.]

VANDIVER, HARRY SHULTZ. *125 South Fifth Street*, Philadelphia, Pa. [Sept., 1912.]

VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey; Lecturer on Mechanics, George Washington University, Washington, D. C. *Geophysical Laboratory, Carnegie Institution.* [Feb., 1903.]

VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen), LL.D. (Clark); Professor of Mathematics, University of Wisconsin, Madison, Wis. *519 North Pinckney Street.* [Apr., 1893.] .

*VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Editor of the *Annals of Mathematics;* Professor of Mathematics, Princeton University, Princeton, N. J. [Aug., 1903.]

VIVIAN, ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Associate Professor of Mathematics, Wellesley College, Wellesley, Mass. [Dec., 1900.]

VOLTERRA, VITO, Phys.D. (Pisa), Math.D. (Christiania), Sc.D. (Cambridge), Ph.D. (Stockholm), Phys.D. (Clark); Senator of the Kingdom of Italy; Professor of Mathematical Physics and Celestial Mechanics, University of Rome, Rome, Italy. *Via in Lucina, 17.* [Dec., 1905.]

WADDELL, MARY EVELYN GERTRUDE, M.A. Toronto, Canada. *596 Spadina Avenue.* [Dec., 1905.]

WAHLIN, GUSTAF ERIC, B.A., Ph.D. (Yale); Instructor in Mathematics, University of Illinois, Urbana, Ill. *Marburg, Germany.* [Sept., 1909.]

WAIT, LUCIEN AUGUSTUS, B.A.; Emeritus Professor of Mathematics, Cornell University, Ithaca, N. Y. *Rockledge.* [Oct., 1891.]

WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Thayer Professor of Mathematics and Applied Mechanics, Washington University, St. Louis, Mo. [Apr., 1891.]

WALKER, BUZZ M., M.Sc., Ph.D. (Chicago); Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss. [Dec., 1898.]

WALSH, CHARLES BURTON, B.A.; Teacher of Mathematics, Ethical Culture High School, New York, N. Y. *33 Central Park West.* [Apr., 1908.]

WASHBURNE, ALVA COURTENAY, Actuary of the Berkshire Life Insurance Company, Pittsfield, Mass. [Apr., 1898.]

WATKEYS, CHARLES WILLIAM, M.A.; Assistant Professor of Mathematics, University of Rochester, Rochester, N. Y. [Feb., 1912.]

WEBB, HARRISON EMMETT, B.A.; Head of the Department of Mathematics, Central Commercial and Manual Training High School, Newark, N. J. *12 Irving Place, Summit, N. J.* [Apr., 1902.]

WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin), Sc.D. (Tufts), LL.D. (Hobart); Professor of Physics, Clark University, Worcester, Mass. [May, 1891.]

WEEKS, RUFUS WELLS, Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway*, New York, N. Y. [June, 1891.]

WELD, LAENAS GIFFORD, B.Sc., M.A., LL.D.; Director of the Pullman Free School of Manual Training, Pullman, Chicago, Ill. [Feb., 1892.]

WELLS, MARY EVELYN, B.A., M.Sc.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. [Dec., 1908.]

WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Apr., 1891.]

WENTWORTH, GEORGE. Exeter, N. H. [Apr., 1910.]

WEST, CARL JOSEPH, M.A.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. [Apr., 1911.]

WESTER, CHARLES WILLIAM, B.Sc.; University of Chicago, Chicago, Ill. [Sept., 1911.]

*WESTERN, ALFRED EDWARD, ScD. *24 Pembridge Square*, London, W. England. [Dec., 1897.]

WESTFALL, W. D. A., B.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. [Dec., 1902.]

WESTLUND, JACOB, Ph.D. (Yale); Professor of Mathematics, Purdue University, Lafayette, Ind. *439 Salisbury Street, West Lafayette.* [Aug., 1898.]

WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); EX-PRESIDENT; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Vassar College, Poughkeepsie, N. Y. [Nov., 1892.]

WHITE, MARION BALLANTYNE, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kan. *1304 Ohio Street.* [Dec., 1910.]

WHITFORD, EDWARD EVERETT, M.A., Ph.D. (Columbia); Instructor in Mathematics, College of the City of New York, New York, N. Y. *180 Claremont Avenue.* [Sept., 1909.]

WHITNEY, ALBERT WURTS, B.A.; Associate Professor of Mathematics and Insurance, University of California, Berkeley, Cal. *33 Canyon Road.* [Apr., 1902.]

*WHITTAKER, EDMUND TAYLOR, M.A., Hon.Sc.D. (Dublin); Professor of Mathematics, University of Edinburgh, Edinburgh, Scotland. *35 George Square.* [Dec., 1897.]

*WHITTEMORE, JAMES KELSEY, M.A.; Assistant Professor of Mathematics, Western Reserve University, Cleveland, Ohio. [Feb., 1897.]

WILCZYNSKI, ERNEST JULIUS, Ph.D. (Berlin); Associate Editor of the *Transactions of the American Mathematical Society;* Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5332 Kimbark Avenue.* [Feb., 1899.]

WILLARD, JOSEPH MOODY, M.A.; Professor of Mathematics and Secretary to the Council of Administration, Pennsylvania State College, State College, Pa. [May, 1892.]

WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *214 Stuart Avenue.* [May, 1895.]

WILLIAMS, ELLA CORNELIA, M.A. *30 West 55th Street*, New York, N. Y. [May, 1892.]

WILLIAMS, JOHN EDWARD, M.A., Ph.D. (Virginia); Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. [Sept., 1905.]

WILLIAMS, KENNETH POWERS, M.A.; Instructor in Mathematics, Indiana University, Bloomington, Ind. [Apr., 1912.]

WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis. [Apr., 1898.]

WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.* [May, 1891.]

WILSON, ALBERT HARRIS, Ph.D. (Chicago); Associate Professor of Mathematics, Haverford College, Haverford, Pa. [Oct., 1901.]

WILSON, DELONZA TATE, M.A., Ph.D. (Chicago); Associate Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio. [Sept., 1904.]

WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Supervisory Board of the *American Year Book;* Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. [Dec., 1899.]

WILSON, NORMAN RICHARD, M.A., Ph.D. (Chicago); Professor of Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada. *Suite 2, 389 Graham Avenue.* [Dec., 1900.]

WILSON, ROBERT EDWARD, B.Ph., M.A.; Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *2015 Sherman Avenue.* [Oct., 1903.]

WILSON, WALLACE ALVIN, B.A., Ph.D. (Yale); Assistant Professor of Mathematics, Yale University, New Haven, Conn. *705 Elm Street.* [Apr., 1910.]

WINGER, ROY MARTIN, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, University of Illinois, Urbana, Ill. [Dec., 1912.]

WOLFF, HENRY CHARLES, M.Sc., Ph.D. (Wisconsin); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *6 South Prospect Avenue.* [Oct., 1911.]

WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Associate Professor of Mathematics, Smith College, Northampton, Mass. *249 Crescent Street.* [Dec., 1899.]

WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *123 Sumner Street, Newton Centre, Mass.* [Oct., 1895.]

*WOODWARD, ROBERT SIMPSON, C.E., Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Associate Editor of *Science;* President of the Carnegie Institution, Washington, D. C. [May, 1891.]

WORTHEN, THOMAS WILSON DORR, M.A.; Emeritus Professor of Mathematics, Dartmouth College, Hanover, N. H.; Member of the State Public Service Commission, Concord, N. H. [May, 1891.]

WORTHINGTON, EUPHEMIA RICHARDSON, B.A., Ph.D. (Yale); Instructor in Mathematics, Wellesley College, Wellesley, Mass. [Apr., 1908.]

WRIGHT, WALTER CHANNING, Consulting Actuary. *141 Milk Street, Room 948,* Boston, Mass. [Oct., 1898.]

YANNEY, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, University of Wooster, Wooster, Ohio. [Oct., 1902.]

YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Professor of Mathematics, Miami University, Oxford, Ohio. [Dec., 1903.]

YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Associate Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5422 Washington Avenue.* [May, 1891.]

YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Dartmouth College, Hanover, N. H. *22 Occom Ridge.* [Feb., 1902.]

YOWELL, EVERRETT IRVING, M.Sc., C.E., Ph.D.; First Astronomer in the Cincinnati Observatory, Cincinnati, Ohio. [Mar., 1893.]

ZEHRING, WILLIAM ARTHUR, M.A.; Assistant Professor of Mathematics, Purdue University, Lafayette, Ind. *303 Russell Street, West Lafayette.* [Oct., 1911.]

ZIWET, ALEXANDER, C.E.; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.* [Apr., 1891.]

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Number of members, January 1, 1912........................... 668
Number of members, January 1, 1913........................... 681
Members admitted during the year 1912...................... 33
Members withdrawing during the year 1912..................... 20
Number of life members 64