THE WISCONSIN ACADEMY OF SCIENCES, ARTS, AND LETTERS.

OFFICERS.

President,
CHARLES S. SLICHTER,
University of Wisconsin, Madison.

Vice-President of Sciences,
ERASTUS G. SMITH,
Beloit College, Beloit.

Vice-President of Arts,
CHARLES H. CHANDER,
Ripon College, Ripon.

Vice-President of Letters,
HARRIET B. MERRILL,
Milwaukee Public Museum, Milwaukee.

Secretary,
ERNST B. SKINNER,
University of Wisconsin, Madison.

Treasurer,
HOMER W. HILLYER,
University of Wisconsin, Madison.

Curator,
SAMUEL WEIDMAN,
Madison.

COUNCIL.

The President, Vice-Presidents, Secretary, Treasurer, Librarian and Past Presidents retaining their residence in Wisconsin.
COMMITTEE ON PUBLICATION.

CHARLES S. SLICHTER, Madison, President.
ERNEST B. SKINNER, Madison, Secretary.
ALBERT S. FLINT, Madison.

COMMITTEE ON LIBRARY.

LOUIS KAHLERBEG, Madison, Librarian.
REUBEN G. THWAITES, Madison.
C. DWIGHT MARSH, Ripon.
JOHN I. JEGI, Milwaukee.
JOHN J. DAVIS, Racine.

COMMITTEE ON MEMBERSHIP.

ERNEST B. SKINNER, Madison, Secretary.
JOHN G. GREGORY, Milwaukee.
DEXTER P. NICHOLSON, Appleton.
HIRAM D. DENSMORE, Beloit.
JOHN J. DAVIS, Racine.

PAST PRESIDENTS.

HONORABLE JOHN W. HOYT, M. D., LL. D., Washington, D. C., 1870-75.
PROFESSOR P. R. HOY, M. D.,* 1876-78.
PROFESSOR ROLAND D. IRVING, Ph. D.,* 1882-84.
PROFESSOR THOMAS C. CHAMBERLIN, Ph. D., LL. D., Chicago, Ill., 1885-87.
PROFESSOR WILLIAM F. ALLEN,** 1888-89.
PROFESSOR EDWARD A. BIRGE, Ph. D., Madison, 1889-90.
LIBRARIAN GEORGE W. PECKHAM, LL. D., Milwaukee, 1891-93.
PROFESSOR CHARLES R. VAN HISE, Ph. D., Madison, 1894-96.

*Deceased. **Deceased December 9, 1899. Professor Birge elected to fill unexpired term.
HONORARY MEMBERS.


CHAMBERLIN, Thomas Chrowder, Hyde Park, Hotel, Chicago, Ill.
A. B. (Beloit); Ph. D. (Wisconsin, Michigan); LL. D. (Michigan, Beloit, Columbian). Head of Geological Department and Director of Walker Museum, University of Chicago.

GILMAN, Daniel Coit, 614 Park Av., Baltimore, Md.
A. B., A. M. (Yale); LL. D. (Yale, Harvard, Princeton, St. Johns, Columbia, North Carolina). Ex-President of Johns Hopkins University; President, Carnegie Institution.

HARRIS, William Torrey, 1303 P. St., N. W., Washington, D. C.
A. M. (Yale); Ph. D. (Brown, Jena); LL. D. (Missouri, Yale, Princeton, Pennsylvania). United States Commissioner of Education; Officer d'Instruction Publique de France.

SHALEK, Nathaniel Southgate, 25 Quincy St., Cambridge, Mass.
S. B., S. D. (Harvard). Professor of Geology, Harvard University; Dean of the Lawrence Scientific School.

WHITMAN, Charles Otis, University of Chicago, Chicago, Ill.
A. B., A. M. (Bowdoin); Ph. D. (Leipzig); LL. D. (Nebraska). Head Professor of Zoology, University of Chicago; Director of Marine Biological Laboratory, Woods Holl, Mass.

LIFE MEMBERS.

BARNES, Charles Reid, University of Chicago, Chicago, Ill.
A. B., A. M., Ph. D. (Hanover). Professor of Plant Physiology, University of Chicago.

BIRGE, Edward Asahel, 744 Langdon St., Madison.
A. B., A. M. (Williams); Ph. D. (Harvard); Sc. D., Honorary (Western University of Pennsylvania). Professor of Zoology and Dean of the College of Letters and Science, University of Wisconsin; Acting President, University of Wisconsin 1909-1902; Secretary of Commissioners of Fisheries, Wisconsin; Director and Superintendent Wisconsin Geological and Natural History Survey.

FLINT, Albert Stowell, 450 Charter St., Madison.
A. B. (Harvard); A. M. (Cincinnati). Assistant Astronomer, Washburn Observatory, University of Wisconsin.
Hastings, Samuel Dexter, 1202 Hinman Av., Evanston, Ill.
Ex-Treasurer of State of Wisconsin; Ex-Secretary of State Board of Charities and Reform.

Hobbs, William Herbert, 223 N. Carroll St., Madison.
B. S. (Worcester Polytechnic Institute); A. M., Ph. D. (Johns Hopkins).
Professor of Mineralogy and Petrology, University of Wisconsin;

 Hoyt, John Wesley, The Victoria, Washington, D. C.
A. M. (Ohio Wesleyan); M. D., LL. D. (Missouri). Chairman of the National Committee to Promote the Establishment of the University of the United States.

Marsh, Charles Dwight, Ripon.
A. B., A. M. (Amherst). Dean and Professor of Biology, Ripon College.

Mitchell, John Lendrum, Milwaukee.
Ex-U. S. Senator from Wisconsin; Vice-President of Board of Managers of National Home for Disabled Volunteer Soldiers, Milwaukee.

Peckham, George Williams, 646 Marshall St., Milwaukee.
LL. D. (Wisconsin). Librarian, Public Library.

Van Cleef, Frank Louis, 39 Fort Greene Pl., Brooklyn, N. Y.

Van Hise, Charles Richard, 630 Francis St., Madison.
B. Met. E., B. S., M. S., Ph. D. (Wisconsin). Geologist in charge of Division of pre-Cambrian and Metamorphic Geology, United States Geological Survey; Non-Resident Professor of Structural Geology, University of Chicago; Professor of Geology, University of Wisconsin; Consulting Geologist, Wisconsin Geological and Natural History Survey; Advisor, Carnegie Institution, Washington, D. C.

ACTIVE MEMBERS.

Adams, Charles Kendall, Redlands, Cal.
A. B., A. M. (Michigan); LL. D. (Harvard); J. U. D. (Glasgow). President of the University of Wisconsin; Member Ex-officio of Board of Commissioners, Wisconsin Geological and Natural History Survey, and President of Board.

Anderson, Mrs. W. E., 134 Twentieth St., Milwaukee.

Armstrong, Mary, 112 Emmet St., Portage.
B. S. (Wisconsin).

Anthony, Gertrude, 450 Charter St., Madison.
B. S. (Wisconsin). Teacher of Biology, Madison High School.
Allen, Charles Elmer, 222 Charter St., Madison.
B. S. (Wisconsin). Instructor in Botany, University of Wisconsin.

Austin, L. W., Physikalische Technische Reichs Anstalt, Charlottenburg, Berlin, Germany.
A. B. (Middlebury); Ph. D. (Strassburg).

Baetz, Henry, 2820 Highland Boulevard, Milwaukee.
Ex-Treasurer, State of Wisconsin. Purchasing Agent, Pabst Brewing Company.

Bennett, William Chase, 936 Hackett Av., Milwaukee.
B. S. (Wisconsin); M. D. (Rush). Professor of Embryology, Wisconsin College of Physicians and Surgeons; Registrar of Vital Statistics, Milwaukee Health Department.

Bille, John, Teacher, River Falls.

Blackstone, Dodge Pierce, 921 Wisconsin St., Berlin.

Blair, Emma Helen, University Heights, Madison.
B. S. (Ripon). Assistant in State Historical Library.

Blake, William Phipps, Tucson, Arizona.
A. M., Hon. (Dartmouth); Ph. B. (Yale). Professor of Geology and Mining, University of Arizona; Director, Arizona School of Mines; State Geologist, Arizona.

Bleyer, Willard Grovenor, 625 Langdon St., Madison.
M. L. (Wisconsin). Instructor in English, University of Wisconsin.

Brandel, Irving Walter, 117 So. Butler St., Madison.

Brown, Eugene Anson, 152 E. Johnson St., Madison.
M. D. (Hahnemann Medical). Physician and Surgeon; Secretary of Board of Federal Pension Examiners, Madison District.

Bruncken, Ernest, 2003 Cedar St., Milwaukee.
Attorney at Law, Room 18, Mack Block.

Buckley, Ernest Robertson, Rolla, Mo.
B. S., Ph. D. (Wisconsin). State Geologist and Director of the Missouri Bureau of Geology and Mines.


Burke, John F., 904 Pabst Building, Milwaukee.

CAIRNS, W. B., 606 Madison St., Madison.
A. B., Ph. D. (Wisconsin). Assistant Professor of English, University of Wisconsin.

CHANDLER, Charles Henry, 308 Thorne St., Ripon.
A. B., A. M. (Dartmouth). Professor of Mathematics and Astronomy, Ripon College.

CHANDLER, Elwyn Francis, University, N. D.
A. B., A. M. (Ripon). Assistant Professor of Mathematics, University of North Dakota.

CHAPIN, Robert Coit, 709 College St., Beloit.
A. B., A. M. (Beloit); D. B. (Yale). Professor of Political Economy, Beloit College.

CHENEY, Lellen Sterling, 318 Bruin St., Madison.
B. S., M. S. (Wisconsin). Assistant Professor of Pharmaceutical Botany, University of Wisconsin.

CLAS, Alfred Charles, 640 Van Buren St., Milwaukee.
Architect (Ferry & Clas), 419 Broadway, Milwaukee; Member, Board of Park Commissioners; Director, Merchants and Manufacturers Association, Milwaukee; Director, Milwaukee Industrial Exposition.

CLEMENTS, Julius Morgan, 609 Lake St., Madison.
A. B., A. M. (Alabama); Ph. D. (Leipzig). Assistant Professor of Geology, University of Wisconsin; Assistant Geologist, U. S. Geological Survey.

B. S., (Wisconsin). Principal, Houghton High School.

COMSTOCK, George Cary, Observatory Hill, Madison.
Ph. B. (Michigan); LL. B. (Wisconsin). Professor of Astronomy and Director of Washburn Observatory, University of Wisconsin; Secretary of the Astronomical and Astrophysical Society of America.

COPELAND, Edwin Bingham, Palo Alto, Calif.

COWLES, Emma, Milwaukee.
Ph. B. (Chicago). Professor of Mathematics, Milwaukee-Downer College.

CULVER, Garry Eugene, 1103 Main St., Stevens Point.
A. M. (Denison). Professor of Physical Science, State Normal School.

DANIELLS, William Willard, 515 N. Carroll St., Madison.

DAVIS, John Jefferson, 504 Monument Sq., Racine.
B. S. (Illinois); M. D. (Hahnemann). Physician.
DENSMORE, Hiram Delos, 718 Clary St., Beloit.
A. B., A. M. (Beloit). Professor of Botany, Beloit College.

DEREHN, Paul Herman, 942 Second St., Milwaukee.
Student, University of Wisconsin.

DESMOND, Humphrey J., 395 E. Water St., Milwaukee.
B. L. (Wisconsin); A. M. (Notre Dame). Lawyer.

DIETRICH, Otto, 805 Grand Av., Milwaukee.
Ph. D. (Halle). Principal, Milwaukee Latin School.

DOWLING, Linnaeus Wayland, University Heights, Madison.
Ph. D. (Clark). Assistant Professor of Mathematics, University of Wisconsin.

DOWNES, Robert Hugh, 53 W. Algoma St., Oshkosh.
B. L. (Wisconsin).

DUDLEY, William H., Platteville.
Instructor in Biology, State Normal School.

EATON, Edward Dwight, 847 College Av., Beloit.
A. B., A. M. (Beloit); B. D. (Yale); LL. D. (Wisconsin); D. D. (Northwestern). President and Professor of Ethics, Beloit College.

ELY, Richard Theodore, University Heights, Madison.
A. B., A. M. (Columbia); Ph. D. (Heidelberg); LL. D. (Hobart). Professor of Political Economy, and Director of the School of Economics and Political Science, University of Wisconsin.

EWING, Addison Luther, River Falls.
B. S., M. S. (Cornell). Professor of Natural Science, State Normal School.

FERRY, George Bowman, 19 Woodland Court, Milwaukee.
Architect (Ferry and Claus).

FISCHER, Richard, Madison.
Ph. C., B. S. (Michigan); Ph. D. (Marburg). Assistant Professor of Practical Pharmacy, University of Wisconsin.

FLAGG, Rufus Cushman, Berlin, N. H.

FOLKMAR, Daniel, A. B., A. M. (Western).

FRANKENBURGER, David Bower, 115 W. Gilman St., Madison.
Ph. B., LL. B., A. M. (Wisconsin). Professor of Rhetoric and Oratory, University of Wisconsin.

FROST, William Dodge, 311 Charter St., Madison.
B. S., M. S. (Minnesota). Instructor in Bacteriology, University of Wisconsin; Lecturer on Bacteriology, Wisconsin College of Physicians and Surgeons.
GAPEN, Clarke, M. D. (……..). Physician. Madison.

GIBBS, George, Park Row Building, New York, N. Y.
M. E. (Stevens Institute). Consulting Engineer, Rapid Transit Subway Construction Company; Member P. R. R. Board of Engineers New York Tunnel Line and Terminal; Member, Advisory Committee on Engineering, Carnegie Institution, Washington, D. C.

GIESE, William Frederick, 426 Bruen St., Madison.
A. B., A. M. (Harvard). Assistant Professor of Romance Languages, University of Wisconsin.

GORDON, Mrs. George, 1144 Humboldt Av., Milwaukee.

GRAENICHER, Sigmund, 551 Seventh St., Milwaukee.
Ph. D. (Basel); M. D. (Munich).

GREGORY, John Goadby, 717 Jefferson St., Milwaukee.
Associate Editor, The Evening Wisconsin.

GRIGGS, H. W., Portage.
Superintendent of Shops, C., M. & St. P. Ry.

HAESSLER, Luise, 467 Hanover St., Milwaukee.
Teacher of Modern Languages, South Division High School.

HALSEY, Rufus H., Oshkosh.

HANCOCK, Edward Lee, La Fayette, Ind.
B. S., M. S. (Wisconsin). Instructor in Mathematics, Purdue University.

HANKS, Lucien M., 525 Wisconsin Av., Madison.

HARPER, Robert Almer, 324 N. Carroll St., Madison.
Ph. D. (Bonn). Professor of Botany, University of Wisconsin.

HARVEY, Nathan Albert, West Superior.
Teacher of Natural Science, State Normal School.

HARWOOD, Mary Corinthia, Bartlett Cottage, Ripon.
B. L., M. L. (Lawrence). Preceptress and Instructor in French and German, Ripon College.

HASKINS, Charles Homer, Cambridge, Mass.
A. B., Ph. D. (Johns Hopkins). Professor of History, Harvard University.

HENRY, William Arnon, University Farm, Madison.
B. Agr. (Cornell). Dean of the College of Agriculture and Director of the Agricultural Experiment Station, University of Wisconsin.
Wisconsin Academy of Sciences, Arts, and Letters.

HILLYER, Homer Winthrop, University Heights, Madison.
B. S. (Wisconsin); Ph. D. (Johns Hopkins). Assistant Professor of Organic Chemistry, University of Wisconsin.

HODGE, Willard Addison, Madison.
A. B., A. M. (Ripon).

HOHLFELD, Alexander Rudolph, 145 W. Gilman St., Madison.
Ph. D. (Leipzig). Professor of German, University of Wisconsin.

HOLLISTER, Albert Henry, 17 Langdon St., Madison.
Pharmacist.

HOOK, Edward Alfred 23 Mellen St., Cambridge, Mass.
B. S., M. S. (Wisconsin). Graduate Student, Harvard University.

HOOPER, Sanford Adelbert, Los Angeles, Cal.
A. B., A. M. (Beloit).

HUBBARD, Frank Gaylord, 227 Langdon St., Madison.
A. B. (Williams); Ph. D. (Johns Hopkins). Professor of the English Language, University of Wisconsin.

HUNTINGTON, Ellsworth, Milton, Mass.
A. B. (Beloit). Graduate Student, Harvard University.

JASTROW, Joseph, 247 Langdon St., Madison.
A. B., A. M. (Pennsylvania); Ph. D. (Johns Hopkins). Professor of Psychology, University of Wisconsin.

JEGI, John I., 254 Twenty-ninth St., Milwaukee.
B. S. (Chicago); M. S. (Normal College, Dixon, Ill.). Professor of Physiology and Psychology, State Normal School.

JENNINGS, John Thompson Wilson, W. Gilman St., Madison.

JOHNSON, Roswell Hill, 435 Warren St., Madison.

JOHNSON, Warren Semour, 120 Sycamore St., Milwaukee.
Mechanical Engineer.

JOLLIFFE, William Morley, 604 Elmore St., Escanaba, Mich.
B. S. (Lawrence). Superintendent, Public Schools.

JUDAY, Chancey, Madison.

KAHLENBERG, Louis, 306 Lake St., Madison.
B. S., M. S. (Wisconsin); Ph. D. (Leipzig). Professor of Physical Chemistry, University of Wisconsin.
Active Members.

KIMBALL, Mather Dean, 528 Frederick St., Milwaukee.
B. A. (Northwestern).

KING, Franklin Hiram, 1540 University Av., Madison.
Chief of Division of Soil Management, Bureau of Soils, U. S. Department
Agriculture.

KNOWLTON, Amos Arnold, University Heights, Madison.
A. B., A. M. (Bowdoin). Assistant Professor of English, University of
Wisconsin.

KREEMERS, Edward, 320 Jackson St., Wingra Park, Madison.
Ph. G., B. S. (Wisconsin); Ph. D. (Göttingen). Professor of Pharma-
ceutical Chemistry and Director of the School of Pharmacy,
University of Wisconsin.

KREUGER, Henry, 376 Twenty-seventh Av., Milwaukee.
Principal, Tenth District School, No. 2.

KUHN, Harry,

LADOFF, Isidor, Milwaukee.

LARD, Arthur Gordon, 619 Langdon St., Madison.
Ph. D. (Cornell). Assistant Professor of Ancient Languages, Univer-
sity of Wisconsin.

LAMB, Francis Jones, 212 N. Carroll St., Madison.
Attorney at Law.

LANE, George Frederick, Ripon.
Director of Conservatory of Music, Ripon College.

LEAVEN WORTH, William Stowell, Ripon.
M. Sc. (Hamilton). Professor of Chemistry and Physics, Ripon College.

LEGLER, Henry E., City Hall, Milwaukee.
Secretary of School Board; Secretary, Parkman Club.

LENHERR, Victor, 148 W. Gorham St., Madison.
Ph. D. (Pennsylvania). Assistant Professor of General and Theoretical
Chemistry, University of Wisconsin.

LEITH, Charles Kenneth, 220 W. Gilman St., Madison.

LESSING, Otto Edward, 113 W. Gorham St., Madison.
Ph. D. (Michigan). Instructor in German, University of Wisconsin.

LIBBY, Orin Grant, State University, N. D.
B. L., M. L., Ph. D. (Wisconsin). Assistant Professor of History,
University of North Dakota.
LLOYD-JONES, Thomas R.,
B. S. (Wisconsin). Superintendent, Public Schools.
Hartford.

LOUGH, James E.,
Professor of Psychology and Pedagogy, State Normal School.
Oshkosh.

LUEDERS, Herman Frederick,
B. S. (Wisconsin).
Sauk City.

MALLORY, Mrs. R. B.,
909 Cambridge Av., Milwaukee.

MAGNUSSON, Carl Edward,
Albuquerque, New Mexico.
E. E. E., M. S. (Minnesota); Ph. D. (Wisconsin). Professor of Mathematics and Physics, University of New Mexico.

MARKS, Solon,
6 Prospect Av., Milwaukee.
M. D. (Rush). Professor of Fractures and Dislocations and Military Surgery, Wisconsin College of Physicians and Surgeons.

MARSHALL, Ruth,
M. S. (Wisconsin). Teacher, Ryan High School.
Appleton.

MARSHALL, William Stanley,
116 E. Gorham St., Madison.
B. S. (Swarthmore); Ph. D. (Leipzig). Assistant Professor of Zoology, University of Wisconsin.

MAURER, Edward Rose,
University Heights, Madison.
B. C. E. (Wisconsin). Professor of Mechanics, University of Wisconsin.

MCKENNA, Maurice,
78 Third St., Fond du Lac.
Attorney at Law; President of the Bar Association and Chairman of the Board of Supervisors, Fond du Lac County.

MCMINN, Amelia,
172 Twenty-first St., Milwaukee.
B. S. (Wisconsin). Instructor in Biology, West Side High School.

MEACHEM, John Goldsborough, Jr.,
745 College Av., Racine.

MERRELL, Edward Huntington,
Ripon.
A B., A. M. (Oberlin); D. D. (Lawrence); LL. D. (Middlebury). Professor of Moral Philosophy, Ripon College.

MERRILL, Harriet Bell,
Milwaukee Public Museum, Milwaukee.
B. S., M. S. (Wisconsin). Lecturer to Schools.

MERRILL, J. A.
State Normal School, West Superior.
B. S. (Harvard). Director of Science Courses, State Normal School.

MERRILL, Mary Ellen, (Mrs. S. S.),
3355 Grand Av., Milwaukee.

MEYER, Balthasar Henry,
University Heights, Madison.
B. L., Ph. D. (Wisconsin). Professor of Institutes of Commerce, University of Wisconsin.
Active Members.

Miller, William Snow, 422 N. Henry St., Madison.
M.D. (Yale). Assistant Professor of Vertebrate Anatomy, University of Wisconsin.

Mitchell, Andrew Stuart, 220 Greenbush St., Milwaukee.

Mitchell, Irving N., 2921 Cedar St., Milwaukee.
Ph. B. (Michigan). Professor of Biology, State Normal School.

Monaghan, James Charles, 28 E. Gilman St., Madison.
A. B. (Brown). Professor of Theory and Practice of Domestic and Foreign Commerce, University of Wisconsin.

Morris, William Augustus Pringle, 1 Howard Place, Madison.


Nader, John, 302 W. Main St., Madison.
Architect and Civil Engineer.

Nehrling, Henry, Gotha, Orange County, Fla.
(Palm Cottage Experiment Gardens.)

Neilson, Walter Hopper, 114 Garfield Ave., Milwaukee.
M.D. (Rush). Dean of the Medical Faculty and Professor of the Principles and Practice of Medicine and Clinical Medicine, Milwaukee Medical College.

Nicholson, Dexter Putnam, 504 John St., Appleton.
B. S., M. S. (Lawrence). Professor of Natural History, Lawrence University.

Norton, Richard Greenleaf, 117 W. Mifflin St., Madison.
Mechanician.

Noyes, George Henry, 204 Prospect Av., Milwaukee.
A. B., LL. B. (Wisconsin). Attorney; Ex-Judge, Superior Court.

O'Connor, Charles James, 1242 E. Dayton St., Madison.
A. B. (Wisconsin).

O'Shea, M. Vincent, 140 Langdon St., Madison.
B. L. (Cornell). Professor of the Science and Art of Education, University of Wisconsin.

Owen, Edward Thomas, 614 State St., Madison.
A. B., Ph. D. (Yale). Professor of the French Language and Literature, University of Wisconsin.
PABST, Fred, 2000 Grand Av., Milwaukee.
PALMER, Bernard Morey, 625 Francis St., Madison.
    B. L. (Wisconsin). Student in College of Law, University of Wisconsin.
PARKINSON, John Barber, 803 State St., Madison.
    A. M. (Wisconsin). Vice-President and Professor of Constitutional and
    International Law, University of Wisconsin.
PARKER, Fletcher Andrew, 14 W. Gilman St., Madison.
    Professor of Music and Director of School of Music, University of Wis-
    consin; Musical Director, Madison Choral Union; Vice-President,
    Music Teachers' National Association.
PEPPELL, S. V., Care Ohio Geological Survey, Columbus, O.
    Chemist and Assistant, Ohio Geological Survey.
PERELES, James M., 529 Astor St., Milwaukee.
    LL. B. Lawyer. Ex-President, Public School Board; President, Public
    Library; ex-County Judge, Milwaukee Co.; Regent, University of
    Wisconsin.
PERELES, Jennie W. (Mrs. J. M.), 529 Astor St., Milwaukee.
    Treasurer, Wisconsin Training School for Nurses; Secretary, Milwaukee
    Flower Mission and Mission Kindergarten.
PERELES, Nellie W. (Mrs. T. J.), 535 Astor St., Milwaukee.
PERELES, Thomas Jefferson, 535 Astor St., Milwaukee.
PERISHO, Ellwood Chappello, Platteville.
    B. S., M. S. (Earlham); M. S. (Chicago). Professor of Geology and
    Physics, State Normal School.
PLANTZ, Samuel, Appleton.
    A. M. (Lawrence); Ph. D. (Boston); D. D. (Albion). President of
    Lawrence University.
PORTER, William, 735 College St., Beloit.
POST, Harriet L., 1182 Humboldt Av., Milwaukee.
    M. D. (Woman's Medical College of New York Infirmary). Instructor in
    Biology, East Side High School.
PRETTS, William Walter, B. S. (Wisconsin.)
PRINGLE, Ralph W., Appleton.
    Principal, Ryan High School; Supervisor, Second District.
PULS, Arthur John, Wells Bldg., Milwaukee.
    B. L. (Wisconsin); M. D. (Heidelberg). Physician; Regent, University
    of Wisconsin.
Active Members.

PUTNEY, Frank Howell, 105 Park Av., Waukesha.
  Attorney at Law.

RANKIN, Walter L., 201 East Av., Waukesha.

REGAN, Katherine Patricia, 414 E. Washington Av., Madison.
  B. L. (Wisconsin). Assistant Principal, Jefferson High School.

REUL, Miss Matilda E., Baraboo.
  B. S., M. S. (Wisconsin). Teacher, Baraboo High School.

RICE, Ole S., Deerfield.
  B. S. (Wisconsin). Principal, Deerfield High School.

  B. M. E., M. E. (Wisconsin); M. M. E. (Cornell). Professor of Experimental Engineering, University of Wisconsin.

ROHDE, Hugo W., 635 Second St., Milwaukee.
  B. S. (Wisconsin).

ROESSLER, John Samuel, 1404 N. Fifth St., Sheboygan.
  B. L. (Wisconsin). Principal of High School.

ROGERS, Augustus J., 318 Ogden Av., Milwaukee.
  Ph. B. (Cornell). Principal of South Division High School.

RUENZEL, Henry Gottlieb, 753 Third St., Milwaukee.
  Ph. G. (Wisconsin). Pharmacist; Member, State Board of Pharmacy.

RUSSELL, Harry Luman, 1532 Univ. Av., Madison.
  B. S., M. S. (Wisconsin); Ph. D. (Johns Hopkins). Professor of Bacteriology, University of Wisconsin.

SALMON, Edward Payson, 618 Church St., Beloit.
  A. M. (Beloit). Congregational Minister; Second Vice-President of Board of Trustees, Beloit College.

SANBORN, John Bell, Madison.
  B. L., M. L., Ph. D. (Wisconsin).

SANFORD, Albert Hart, 1052 Clark St., Stevens Point.
  B. L. (Wisconsin); A. B. (Harvard). Instructor in History and Civics, State Normal School.

SAUNDERS, George William, Ripon.
  A. B., A. M. (Dartmouth); LL B. (Boston). Professor of English Literature and Oratory, Ripon College.

SCHLUNDT, Herman, 202 Bruen St., Madison.
  B. S., M. S., Ph. D. (Wisconsin). Instructor in Chemistry, University of Wisconsin.
Scott, William Amasa, 619 Langdon St., Madison.
A. B., A. M. (Rochester); Ph. D. (Johns Hopkins). Director of the School of Commerce and Professor of Economic History and Theory, University of Wisconsin.

Sessinghaus, Gustavus, 1360 Columbine St., Denver, Colo.
E. M. (Columbia); M. S. (Wisconsin).

Sharp, Frank Chapman, 27 Mendota Court, Madison.
A. B. (Amherst); Ph. D. (Berlin). Assistant Professor of Philosophy, University of Wisconsin.

Sherman, Lewis, 448 Jackson St., Milwaukee.
B. S., A. M. (Union); M. D. (New York).

Sieker, William Christian, 131 Fourteenth St., Milwaukee.
B. S. (Wisconsin).

A. B. (Ohio); Ph. D. (Chicago). Assistant Professor of Mathematics, University of Wisconsin.

Slaughter, Moses Stephen, 633 Francis St., Madison.
A. B., A. M. (DePauw); Ph. D. (Johns Hopkins). Professor of Latin, University of Wisconsin.

Slichter, Charles Sumner, 636 Francis St., Madison.
B. S., M. S. (Northwestern). Professor of Applied Mathematics, University of Wisconsin.

Smith, Erastus Gilbert, 649 Harrison Av., Beloit.
A. B., A. M. (Amherst); A. M., Ph. D. (Göttingen). Professor of Chemistry, Beloit College.

Smith, Howard Leslie, 222 Langdon St., Madison.
A. B., LL. B. (Wisconsin). Professor of Law, University of Wisconsin.

Smith, Leonard Sewell, 939 University Ave., Madison.
B. C. E., C. E. (Wisconsin). Assistant Professor of Topographic and Geodetic Engineering, University of Wisconsin.

Smith, Walter McMynn, 218 Park St., Madison.
A. B. (Wisconsin). Librarian, University of Wisconsin.

Snow, Benjamin Warner, 518 Wisconsin Ave., Madison.
Ph. D. (Berlin). Professor of Physics, University of Wisconsin.

Sparling, Samuel Edward, 505 N. Carroll St., Madison.
A. B. (Indiana); Ph. D. (Wisconsin). Assistant Professor of Political Science, University of Wisconsin.

Starr, William J., 135 Marston Av., Eau Claire.
LL. B. (Columbia). Member, Board of Commissioners of Fisheries, Wisconsin; President of the Eau Claire Public Library.
Active Members.

STANTON, Florence Belle, Lodi.
   B. L. (Wisconsin). Teacher in High School.

SUYYDAM, Vernon Andrew, Ripon.
   B. S. (Wisconsin). Teacher in Ripon High School.

TALBERT, G. A., Oshkosh.

TAWNEY, Guy Allan, Beloit.
   A. B., A. M. (Princeton); Ph. D. (Leipzig). Squier Professor of Mental
   Science and Philosophy, Beloit College.

TELLER, Edgar E., 170 Twenty-ninth St., Milwaukee.
   President, Wisconsin Natural History Society.

TETZEL, Fanny Grant, 817 Newhall St., Milwaukee.

THWAITES, Reuben Gold, 260 Langdon St., Madison.
   Secretary and Superintendent, State Historical Society of Wisconsin.

TIMBERLAKE, Hamilton Greenwood, 313 Mills St., Madison.
   M. S. (Michigan). Instructor in Botany, University of Wisconsin.

TRUE, Rodney Howard, Washington, D. C.
   B. S. (Wisconsin); Ph. D. (Leipzig).

TURNER, Frederick Jackson, 629 Francis St., Madison.
   A. B., A. M. (Wisconsin); Ph. D. (Johns Hopkins). Director of the School
   of History and Professor of American History, University of Wis-
   consin.

UTHELEIN, August, 332 Galena St., Milwaukee.

UPDIKE, Eugene Grover, 148 Langdon St., Madison.

UPHAM, Arthur Aquila, 106 Conger St., Whitewater.
   Professor of Natural Sciences, State Normal School.

VAN VEZLER, Charles Ambrose, 134 W. Gorham St., Madison.
   B. S. (Cornell); Ph. D. (Hillsdale). Professor of Mathematics, University
   of Wisconsin.

VIEBAHN, Charles Frederick, 703 Western Av., Watertown.
   Superintendent of Schools and Principal of High School.

VOGEL, Guido Charles, Milwaukee.
   B. S. (Wisconsin).

VÖSS, Ernst Karl Johann Heinrich, 23 E. Johnson St., Madison.
   Ph. D. (Leipzig). Professor of German Philology, University of Wisconsin.

WATSON, Walter S., Whitewater.
   M. S. (..........). Professor of Biology and German, State Normal
   School.
WEIDMAN, Samuel, 229 W. Gilman St., Madison.

WHITCOMB, Annabell Cook (Mrs. Henry F.), 721 Franklin St., Milwaukee.

WHITSON, Andrew Robinson, 420 Charter St., Madison.
B. S. (Chicago). Professor of Agricultural Physics, University of Wisconsin.

WINGATE, Uranus O. B., 204 Biddle St., Milwaukee.
M. D. (Dartmouth). Professor of Diseases of the Mind and Nervous System, Wisconsin College of Physicians and Surgeons; Secretary of State Board of Health.

WINKENWERDER, Hugo August, 217 Murray St., Madison.
Assistant in Biology, University of Wisconsin.

WOLCOTT, Edson Ray, 202 Langdon St., Madison.
B. S. (Wisconsin). Fellow in Physics, University of Wisconsin.

WOLFF, Henry C., 225 State St., Madison.
B. S., M. S. (Wisconsin). Instructor in Mathematics, University of Wisconsin.

B. S., Ph. B. (Christiania); M. S. (Wisconsin). Assistant Professor of Agricultural Chemistry and Chemist to the Agricultural Experiment Station, University of Wisconsin.

ZIMMERMANN, Charles Frederick A., 622 Otjen St., Milwaukee.
Ph. B. (Illinois Wesleyan); A. M. (Charles City). Principal, Seventeenth District School.

ZIMMERMANN, Oliver Bruner, 209 Brooks St., Madison.

CORRESPONDING MEMBERS.

ABBOTT, Charles Conrad, Trenton, N. J.
M. D. (Pennsylvania).

ANDREWS, Edmund, 100 State St., Chicago, Ill.
A. B., A. M., M. D., LL. D. (Michigan). Professor of Clinical Surgery, Northwestern University; Surgeon, Mercy Hospital; Consulting Surgeon, Michael Reese Hospital and Illinois Hospital for Women and Children.

ARMSBY, Henry Prentiss, State College, Pa.
B. S. (Worcester Polytechnic); Ph. B., Ph. D. (Yale). Director of Experiment Station.
Corresponding Members. 643

BASCOOM, John, Park St., Williamstown, Mass.
A. B., A. M. (Williams); D. D. (Iowa); LL. D. (Amherst, Williams). Professor of Political Science, Williams College.

BENNETT, Charles Edwin, 1 Grove Place, Ithaca, N. Y.
A. B. (Brown). Professor of Latin Language and Literature, Cornell University.

BRIDGE, Norman,
217 S. Broadway, Los Angeles, Calif.; Oct. and Nov. each year, Rush Medical College, Chicago, Ill.
A. M. (Lake Forest); M. D. (Northwestern, Rush). Emeritus Professor of Medicine, Rush Medical College.

CAVERNO, Charles, Lombard, Ill.
A. B., A. M. (Dartmouth); LL. D. (Colorado). Clergyman, retired.

COULTER, John Merle, University of Chicago, Chicago, Ill.
A. B., A. M., Ph. D. (Hanover); Ph. D. (Indiana). Head Professor of Botany, University of Chicago.

CROOKER, Joseph Henry, 110 N. State St., Ann Arbor, Mich.
D. D. (St. Lawrence, Nashville). Minister, Unitarian Church.

DAVIS, Floyd, 317 Iowa Loan and Trust Bldg., Des Moines, Ia.
Ph. B., C. E., E. M. (Missouri); Ph. D. (Miami). Analytical and Consulting Chemist.

A. B., A. M. (Dickinson); Ph. D. (Johns Hopkins). Professor of Greek, Miami University.

FALLOWS, Samuel, 967 W. Monroe St., Chicago, Ill.
A. B., A. M., LL. D. (Wisconsin); D. D. (Lawrence). Presiding Bishop of the Reformed Episcopal Church; Chancellor of the University Association; President of Board of Managers, Illinois State Reformatory.

HENDRICKSON, George Lincoln, 5515 Woodlawn Av., Chicago.
A. B. (Johns Hopkins). Professor of Latin, University of Chicago.

HIGLEY, William Kerr, Lincoln Park, Chicago, Ill.
Ph. M. (Michigan). Secretary, Chicago Academy of Sciences; Editor, Birds and Nature.

HODGE, Clifton Fremont, 3 Charlotte St., Worcester, Mass.
A. B. (Ripon); Ph. D. (Johns Hopkins). Assistant Professor of Physiology and Neurology, Clark University.

HOEOLDEN, Edward Singleton, U.S. Military Academy, West Point, N. Y.
B. S., A. M. (Washington); S. D. (Pacific); LL. D. (Wisconsin and Columbia). Astronomer.
HOLLAND, Frederic May, Main St., Concord, Mass.
A. B. (Harvard).

HOSKINS, Leander Miller, Palo Alto, Calif.

IDDINGS, Joseph Paxson, 5730 Woodlawn Av., Chicago, Ill.
Ph. B. (Yale). Professor of Petrology, University of Chicago.

KINLEY, David, Urbana, Ill.
A. B. (Yale); Ph. D. (Wisconsin). Dean of the College of Literature and Arts, and Professor of Economics, University of Illinois.

LEVERETT, Frank, Ann Arbor, Mich.

LURTON, Freeman Ellsworth, Spring Valley, Minn.
B. S., M. S. (Carleton); Ph. D. (Gale). Superintendent of Public Schools.

LUTHER, George Elmer,
266 S. College Av., Grand Rapids, Mich.

MARX, Charles David, Palo Alto, Calif.

McCULUMPHA, Charles Flint, Minneapolis, Minn.
A. B., A. M. (Princeton); Ph. D. (Leipzig). Professor of English Language and Literature, University of Minnesota.

MOOREHOUSE, George Wilton, 39 Cutler St., Cleveland, O.
B. L., M. L. (Wisconsin); M. D. (Harvard). Physician to the Dispensary of Lakeside Hospital and Western Reserve University.

PEET, Stephen Denison, 5817 Madison Av., Chicago.
A. M., Ph. D. (Beloit). Clergyman; Editor, American Antiquarian.

POTTER, William Bleecker, 1225 Spruce St., St. Louis, Mo.

POWIEI, Frederick Belding, 535 Warren St., Hudson, N. Y.

RAYMOND, Jerome Hall, Chicago, Ill.
A. B., A. M. (Northwestern); Ph. D. (Chicago). Associate Professor of Sociology, University of Chicago.

SALISBURY, Rollin D., University of Chicago, Chicago, Ill.
A. M. (Beloit). Professor of Geographic Geology and Dean of the Graduate School of Science, University of Chicago; Geologist, U. S. Geological Survey, State Geological Survey, New Jersey.
Corresponding Members.

Sawyer, Wesley Caleb, Elm and Asbury Sts., San Jose, Calif.
A. B., A. M. (Harvard); A.M., Ph. D. (Göttingen).

Shipman, Stephen Vaughn, 269 Warren Av., Chicago, Ill.
Colonel, — Regiment, U. S. Volunteers, Civil War; Architect.

Stone, Ormond, University Station, Charlottesville, Va.
M. A. (Chicago). Director, Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia.

Tatlock, John, Jr., 32 Nassau St., New York, N. Y.
A. B., A. M. (Williams); F. R. A. S. Assistant Actuary, Mutual Life Insurance Co.

Tolman, Albert Harris, 5750 Woodlawn Av., Chicago, Ill.
A. B. (Williams); Ph. D. (Strassburg). Assistant Professor of English Literature, University of Chicago.

Tolman, Herbert Cushing, Nashville, Tenn.
A. B., Ph. D. (Yale); D. D. (Nashville). Professor of Greek, Vanderbilt University.

Townley, Sidney Dean, 2023 Bancroft Way, Berkeley, Cal.
B. S., M. S. (Wisconsin); S. D. (Michigan). Instructor in Practical Astronomy, University of California.

Trelease, William, Botanical Garden, St. Louis, Mo.
B. S. (Cornell); S. D. (Harvard); LL. D. (Wisconsin). Director of Missouri Botanical Garden and Henry Shaw School of Botany, Engelmann Professor of Botany, Washington University; Secretary, Academy of Science of St. Louis; Secretary, The Round Table, St. Louis; Honorary President, Engelmann Botanical Club, St. Louis.

Van de Water, Ely, 404 Fayette Park, Syracuse, N. Y.
M. D. (Albany Medical and Union). Surgeon Central New York Hospital for Women; Consulting Physician St. Ann's Maternity Hospital; Senior Surgeon Women's and Children's Hospital; Commissioner of Education, Syracuse; Member of the Holland Society.

Van Vleck, Edward Burr, Middletown, Ct.
A. B., A. M. (Wesleyan); Ph. D. (Göttingen). Professor of Mathematics, Wesleyan University.

Verrill, Addison Emory, 86 Whalley Av., New Haven, Ct.
S. B. (Harvard); A. M. (Yale). Professor of Zoology, Yale University.

Winchell, Newton Horace, 113 State St., Minneapolis, Minn.
A. M. (Michigan).

Young, Albert Adams, 531 S. Claremont Av., Chicago, Ill.
A. B., A. M. (Dartmouth); D. B. (Andover). Clergyman.
MEMBERS DECEASED.

INFORMATION OF WHOSE DECEASE HAS BEEN RECEIVED SINCE THE ISSUE OF VOLUME XII.

Orton, Edward, A. M., Ph. D., LL. D., Columbus, Ohio.
Professor of Geology, Ohio State University, State Geologist of Ohio, 1899.

Davies, John Eugene, A. M., M. D., LL. D., Madison, Wis.
Professor of Electricity and Magnetism and Mathematical Physics, University of Wisconsin; Jan. 22, 1900.

Chandler, Willard Harris, Madison, Wis.
State Inspector of High Schools; March 24, 1901.

Safford, Truman Henry, Ph. D., Williamstown, Mass.
Field Memorial Professor of Astronomy, Williams College; June 12, 1901.

Bacon, Charles Alfred, A. B., A. M., Beloit, Wis.
Professor of Astronomy, Beloit College, and Director of Smith Observatory; Sept., 1901.

Steele, George McKendrae, D. D., LL. D., Chicago, Ill.
President of Lawrence University, 1865-1879; Principal Wesleyan Academy, Wilbraham, Mass., 1879-1893; Jan., 1902.

Conrath, Adam, Ph. C., Milwaukee, Wis.
Pharmacist; Jan., 1901.

Goodhue, William Fletcher, Milwaukee, Wis.
Civil Engineer; 1901.

Johnson, John Butler, C. E., Madison, Wis.
Dean of the College of Mechanics and Engineering, University of Wisconsin; June 30, 1902.