

Proceedings of the Iowa Academy of Science

Volume 44 | Annual Issue

Article 2

1937

Officers, Committees, and Past Presidents, Iowa Academy of Science

Let us know how access to this document benefits you

Copyright ©1937 Iowa Academy of Science, Inc.

Follow this and additional works at: <https://scholarworks.uni.edu/pias>

Recommended Citation

(1937) "Officers, Committees, and Past Presidents, Iowa Academy of Science," *Proceedings of the Iowa Academy of Science*, 44(1).

Available at: <https://scholarworks.uni.edu/pias/vol44/iss1/2>

This Front Matter is brought to you for free and open access by the IAS Journals & Newsletters at UNI ScholarWorks. It has been accepted for inclusion in Proceedings of the Iowa Academy of Science by an authorized editor of UNI ScholarWorks. For more information, please contact scholarworks@uni.edu.

Offensive Materials Statement: Materials located in UNI ScholarWorks come from a broad range of sources and time periods. Some of these materials may contain offensive stereotypes, ideas, visuals, or language.

IOWA ACADEMY OF SCIENCE

OFFICERS OF THE ACADEMY

1936-1937

| | |
|--|-----------|
| <i>President</i> , L. P. SHERMAN----- | Grinnell |
| <i>Vice-President</i> , A. C. TROWBRIDGE----- | Iowa City |
| <i>Editor</i> , F. W. NICHOLS----- | Ames |
| <i>Secretary-Treasurer</i> , J. C. GILMAN----- | Ames |

CHAIRMEN OF THE STANDING COMMITTEES

| | |
|--|---------|
| <i>Biological Survey</i> , H. S. CONARD, Grinnell----- | 1933-40 |
| <i>Conservation</i> , A. C. TROWBRIDGE, Iowa City----- | 1935-41 |
| <i>High School Relations</i> , C. W. LANTZ, Cedar Falls----- | 1936-42 |
| <i>Membership</i> , W. F. LOEHWING, Iowa City----- | 1933-37 |
| <i>Finance</i> , G. W. MARTIN, Iowa City----- | 1933-38 |
| <i>Legislation</i> , D. W. MOREHOUSE, Des Moines----- | 1933-39 |

SECTION OFFICERS

| SECTION | CHAIRMAN | EXECUTIVE COMMITTEE | |
|---------------------------------------|-----------------|---------------------|---------|
| <i>Botany and Bacteriology</i> | R. A. FRENCH | M. LEVINE | 1935-39 |
| <i>Chemistry, General, Physical</i> | A. J. RIDER | J. A. WILKINSON | 1933-37 |
| <i>Chemistry, Organic, Biological</i> | G. A. LILLIS | G. H. COLEMAN | 1935-39 |
| <i>Geology</i> | J. T. LONSDALE | E. J. CABLE | 1934-38 |
| <i>Mathematics</i> | R. B. MCCLENON | C. GOUVENS | 1936-40 |
| <i>Physics</i> | WILLIAM KADESCH | M. E. GRABER | 1934-38 |
| <i>Psychology</i> | E. E. EMME | C. A. RUCKMICK | 1933-37 |
| <i>Zoology</i> | K. A. STILES | H. E. JAQUES | 1936-40 |

PAST PRESIDENTS

| | | | |
|-------------------------------|-----------|-------------------------|-----------|
| OSBORN, HERBERT----- | 1887-1888 | KINNEY, C. N.----- | 1913-1914 |
| TODD, J. E.----- | 1888-1889 | CONARD, HENRY S.----- | 1914-1915 |
| WITTER, F. M.----- | 1889-1890 | KELLY, HARRY M.----- | 1915-1916 |
| NUTTING, C. C. (2 terms)----- | 1890-1892 | STEWART, GEORGE W.----- | 1916-1917 |
| PAMMEL, L. H.----- | 1892-1893 | ROSS, L. S.----- | 1917-1918 |
| ANDREWS, L. W.----- | 1893-1894 | BEYER, S. W.----- | 1918-1919 |
| NORRIS, H. W. (1 term)----- | 1894-1896 | STEPHENS, T. C.----- | 1919-1920 |
| HALL, T. P.----- | 1896 | KNIGHT, NICHOLAS----- | 1920-1921 |
| FRANKLIN, W. S.----- | 1896-1897 | MOREHOUSE, D. W.----- | 1921-1922 |
| MACBRIDE, T. H.----- | 1897-1898 | WYLIE, R. B.----- | 1922-1923 |
| HENDRIXSON, W. S.----- | 1898-1899 | PAMMEL, L. H.----- | 1923-1924 |
| NORTON, W. H.----- | 1899-1900 | SMITH, O. H.----- | 1924-1925 |
| VEBLEN, A. A.----- | 1900-1901 | CRATTY, R. I.----- | 1925-1926 |
| SUMMERS, H. E.----- | 1901-1902 | SEASHORE, C. E.----- | 1926-1927 |
| FINKE, BRUCE----- | 1902-1904 | WELD, L. D.----- | 1927-1928 |
| SHIMEK, B.----- | 1904-1905 | KAY, GEORGE F.----- | 1928-1929 |
| AREY, M. F.----- | 1905-1906 | SPINNEY, L. B.----- | 1929-1930 |
| BATES, C. O.----- | 1906-1907 | RIETZ, H. L.----- | 1930-1931 |
| TILTON, JOHN L.----- | 1907-1908 | LEES, JAMES H.----- | 1931-1932 |
| CALVIN, SAMUEL----- | 1908-1909 | JAQUES, H. E.----- | 1932-1933 |
| ALMY, FRANK F.----- | 1909-1910 | CABLE, E. J.----- | 1933-1934 |
| HOUSER, GILBERT L.----- | 1910-1911 | BARTOW, E. W.----- | 1934-1935 |
| BEGEMAN, L.----- | 1911-1912 | BUCHANAN, R. E.----- | 1935-1936 |
| BENNETT, A. A.----- | 1912-1913 | SHERMAN, L. P.----- | 1936-1937 |

MEMORIALS

| | |
|-----------------------------|----|
| Ernest Otto Dieterich----- | 21 |
| Julia Trueman Colpitts----- | 22 |
| Lucy M. Cavanagh----- | 23 |
| Harry McCormick Kelly----- | 24 |
| James Newton Pearce----- | 26 |
| Albert B. Reagan----- | 30 |
| Bohumil Shimek----- | 31 |

TITLES OF PAPERS PRESENTED

Address of the President — Education and Industry. L. P. Sherman--
 Address of the Guest Speaker — Studies on the mechanisms of hunger,
 appetite and thirst. A. J. Carlson ¹-----

Some Selected Papers of General Interest

The flow of water in unsaturated soils. L. A. Richards-----
 The mammals of Iowa. Roy L. Abbott-----
 Report of the International Congress on Microbiology. R. E. Buchanan

Botany and Bacteriology

| | |
|--|-----|
| Some molds associated with meat in cold storage lockers in Iowa. G. Semeniuk and W. C. Ball----- | 37 |
| Notes on Iowa fungi VII. G. W. Martin----- | 45 |
| The effect of drought and heat in 1936 on the functioning of the stamine flowers of maize. J. N. Martin----- | 55 |
| The banana floating heart (<i>Nymphaeoides aquaticum</i>). Henry S. Conard----- | 61 |
| The woody plants of southeastern Iowa. Malcolm McDonald. (Introduced by Charles Carter)----- | 65 |
| A visionary list of the Cruciferae of Henry, Jefferson and Van Buren counties, Iowa. Charles Gilly. (Introduced by Charles Carter)----- | 75 |
| The effects of carbon dioxide on the yield, phosphorus and calcium contents of wheat. F. B. Smith, P. E. Brown, and H. C. Millar----- | 79 |
| The effect of replacing bases with hydrogen on microbiological action in soils. J. R. Johnston, F. B. Smith, and P. E. Brown----- | 85 |
| The effect of various treatments on the rate of decomposition of organic matter in soils under continuous corn. W. J. Peevy, F. B. Smith, and P. E. Brown----- | 91 |
| Lignin decomposition in soils. J. B. Bartlett, F. B. Smith and P. E. Brown----- | 97 |
| <i>Funaria flavicans</i> Michx. in Iowa. (Abstract). Clark D. Paris----- | 103 |
| Fruit hypertrophy following haustorial invasion by <i>Cuscuta</i> . (Abstract). H. L. Dean----- | 103 |
| The strophiole in sweet clover and alfalfa seeds. (Abstract). J. N. Martin----- | 104 |
| The vegetative growth phases of apple shoots and their relation to root formation. (Abstract). V. T. Stoutemeyer----- | 104 |
| Notes on seed production in the smooth perennial sow thistle. (<i>Sonchus arvensis</i> var. <i>glabrescens</i> Wimm. and Graeb). (Abstract). Ada Hayden----- | 105 |
| Nomenclature of the phytopathogenic species of <i>Bacillus</i> . (Title). I. E. Melhus, G. C. Kent, E. L. Waldee----- | |

¹ Professor of Physiology, University of Chicago, and President of the American Association of University Professors.

Chemistry, Inorganic and Physical

| | |
|--|-----|
| Automatic hydrogen-sulphide generator. George Atchison----- | 107 |
| The determination of the dielectric constants of aqueous salt solutions of ultra high frequencies. (Abstract). W. C. Oelke and A. Singer----- | 109 |
| Electrokinetic potentials at liquid surfaces. (Abstract). W. G. Eversole and D. I. Deardorff----- | 109 |
| Binary systems of acetamide with four higher amides. (Title). Ben H. Peterson, George A. Nelson and John A. Palmer----- | |
| The analysis of mixtures of iodine and chlorine. (Title). Jacob Cor- nog and L. E. Olsen----- | |
| Activity coefficients of acetamide in aqueous solution by freezing point and vapor pressure method. (Title). Ben H. Peterson, John A. Blom- quist and Kenneth E. Schluntz----- | |
| The heat capacity and heat of fusion of acetamide. (Title). Ben. H. Peterson and Victor R. Hurka----- | |
| The silica-sesquioxide ratio and calcium content of some Iowa soils. (Title). C. D. Hoover, F. B. Smith and P. E. Brown----- | |

Chemistry, Organic and Biological

| | |
|---|-----|
| Variations in the composition of Steffens waste. II. H. E. Redman, Edward Bartow, and George H. Coleman----- | 111 |
| Growth, reproduction, and blood changes produced in rats by means of zinc carbonate. W. R. Sutton and Victor E. Nelson----- | 117 |
| Formation of heterocyclic compounds from haloamines. (Abstract). George H. Coleman and Gilbert E. Goheen----- | 123 |
| High molecular weight fatty acid derivatives. (Abstract). Grover M. Ford and Henry Gilman----- | 123 |
| Modification of the directive influence of substituents in certain benzene derivatives. (Abstract). L. Charles Raiford and M. F. Ravely----- | 124 |
| n-Octadecylamine and di-n-octadecylamine and their derivatives. (Ab- stract). William Harber and Henry Gilman----- | 125 |
| Nitration of the tribromo substitution product of sym-xlenol. (Ab- stract). L. Charles Raiford and Donald W. Kaiser----- | 125 |
| The efficiency of the Widmer column as compared to other laboratory fractionating columns. (Title). George Schulte----- | |

Geology

| | |
|---|-----|
| Plant microfossils of an Iowa coal deposit. L. R. Wilson and A. L. Brokaw----- | 127 |
| Recency of origin of upper Des Moines river. (Abstract). Charles R. Keyes----- | 131 |
| Dakota Sandstone as a basinal basinum. (Abstract). Charles R. Keyes----- | 131 |
| Original great magnitude of our coal measures. (Abstract). Charles R. Keyes----- | 132 |
| New mapping of geologic boundaries of northwest Iowa. (Abstract). A. C. Tester----- | 133 |
| New subsurface data from Lyon County, northwest Iowa. (Abstract). A. C. Tester----- | 134 |
| Earthquake history in Iowa. (Abstract). Mrs. M. M. Seeburger----- | 134 |
| Iowa earthquake recordings during the last year. (Abstract). Mrs. M. M. Seeburger----- | 135 |
| Geography of the beet-sugar industry in Iowa. (Abstract). John E. Smith----- | 135 |
| Plantersville meteorite, Grimes County, Texas. (Abstract). J. T. Lonsdale----- | 135 |
| The log of a deep well at Glenwood, Iowa. (Title). John M. Lindley----- | 135 |

Mathematics

| | |
|---|-----|
| On the decomposition of $4(x^p - 1)/(x - 1)$, (continued) for a prime p , $20 < p < 225$. Cornelius Gouwens----- | 137 |
| General formulae for homozygosis. (Title). H. W. Norton, III----- | 139 |
| A proof of Budan's theorem. (Title). N. B. Conkwright----- | |
| Descartes' rule of signs. (Title). N. B. Conkwright----- | |

- Airfoil theory. (Invited address). (Title). E. W. Anderson-----
 Tests for homogeneity of variances. (Title). A. E. Brandt-----
 On the complete independence of Huntington's postulates for Boolean
 algebras. (Title). F. D. Rigby-----
 Volterra's biological dynamics. (Title). E. S. Allen-----
 Correlations between grades in freshman mathematics and pre-test
 scores. (Title). E. W. Chittenden-----

Physics

| | |
|---|-----|
| A description glossary of physics. LeRoy D. Weld----- | 145 |
| Growth conditions for zinc crystals. (Abstract). J. S. Kellough----- | 147 |
| Hysteresis in zinc crystals. (Abstract). E. P. T. Tyndall----- | 147 |
| Wetting of hot metal filaments by molten metals. (Abstract). M. Al- den Countryman----- | 147 |
| Optical excitation of mercury-hydride. (Abstract). L. O. Olsen----- | 147 |
| The Zeeman effect on the hyperfine structure of optically excited mer- cury resonance radiation. (Abstract). E. Hobart Collins----- | 148 |
| Current views with reference to the nature of liquid structure. (Ab- stract). G. W. Stewart----- | 149 |
| Physical development of photographic plates (Abstract). George M. Higgins ----- | 149 |
| Comparison of some commercially available photographic negative ma- terials. (Abstract). Harris Hug----- | 150 |
| A study of some of the modern natural color photographic processes. (Abstract). P. H. Carr----- | 150 |
| Large angle scattering and energy loss of potassium ions scattered by argon, krypton, xenon, and mercury vapor. (Abstract). Arthur G. Rouse ----- | 150 |
| Photomicrographs of snow crystals. (Abstract). George C. Higgins-- | 151 |
| A semi-automatic film slide projector. (Abstract). H. C. Gilbertson-- | 151 |
| Position of the vibrator in the experiment of Melde and Knudt. (Ab- stract). B. J. Miller and L. O. Olsen----- | 151 |
| Apparatus for measuring Young's modulus at small strains. (Ab- stract). James A. Van Allen----- | 152 |
| Two experiments for first year students of Physics. (Abstract). W. H. Kadesch----- | 152 |
| Some findings in the nation-wide teaching program. (Abstract). C. J. Lapp ----- | 152 |
| Effect of previous training on grades in elementary physics. (Ab- stract). E. C. McCracken----- | 153 |
| A study of the effectiveness of a motion picture on immediate and long-time retention. (Abstract). C. J. Lapp----- | 153 |
| A repetition of the experiment on teaching the Vernier gauge. (Ab- stract). C. J. Lapp----- | 153 |
| A study in learning electrodynamics by motion pictures. (Abstract). C. J. Lapp----- | 153 |

Psychology Section

| | |
|---|-----|
| An item analysis of the adjustment questionnaire. (Abstract). Emma McCloy Layman----- | 155 |
| The stability and adaptation of the human brain rhythm. (Abstract). B. K. Bagchi----- | 155 |
| Brain potentials during silent and oral reading. (Abstract). John R. Knott ----- | 156 |
| The relationship between brain rhythms and certain muscular rhythms. (Abstract). Charles N. Cofer----- | 156 |
| Effect of auditory and visual stimuli on brain potential rhythms. (Ab- stract). Betty Martinson----- | 157 |
| The effect of training in phonics upon reading ability at the college level. (Abstract). Maurine Rogers----- | 158 |
| Quantitative measurement of some psychological and phonetic factors affecting the incidence of stuttering. (Abstract). Spencer F. Brown----- | 158 |
| The effect of training upon the handedness preference of the rat in an eating activity. (Abstract). Robert J. Milisen----- | 159 |

| | |
|--|-----|
| The effect of different styles of mutes upon the intensity and the harmonic structure of the violin tone. (Abstract). E. P. Horne----- | 160 |
| Intensity of the violin tone as a function of bow speed, pressure, and point of application of the bow. (Abstract). Arnold M. Small----- | 160 |
| Interval preference. (Abstract). Curtis Tuthill----- | 160 |
| The phenomenon of "increased" bone conductance. (Abstract). Noble H. Kelley----- | 161 |
| The relation of orthopedic disability to personality adjustment. (Abstract). H. E. Scarbrough----- | 162 |
| The comparison between electrodermal response and hedonic tone. (Abstract). Clifford E. Jurgensen----- | 162 |
| Trends of research in the psychology of art. (Abstract). Mildred Dow Voss----- | 163 |
| The mental development of children of the same I. Q. in differing institutional environments. (Abstract). Orlo L. Crissey----- | 164 |
| The reliability of certain scales for measuring attitudes. (Abstract). A. R. Lauer and Robert Taylor----- | 165 |
| Do university and college students have dislike or affection for their parents? E. E. Emme----- | 167 |
| Some observations on a new type of introductory course in elementary psychology. (Title). Robert Leeper----- | |
| Recent developments in the project method of teaching elementary psychology. (Title). D. D. Feder----- | |

Zoology

| | |
|---|-----|
| Beaver in Iowa. W. W. Aitken----- | 175 |
| Bird banding at Parsons College. (Introduced by Charles Carter). Wesley Bartlett----- | 183 |
| Grasshoppers in Iowa in 1936. Carl J. Drake and George C. Decker----- | 189 |
| Some methods of teaching taxonomy. H. E. Jaques----- | 193 |
| Additional species of Iowa Syrphidae. Mabel Jaques----- | 197 |
| The pocket mouse (<i>Perognathus flavus</i>) a new species in Iowa? Emmet Polderboer (Introduced by Roy L. Abbott)----- | 199 |
| The effects of jarring upon the embryogeny of chick embryos. (Abstract). Karl A. Stiles and Ray L. Watterson----- | 203 |
| Effects of temperature on oocysts of <i>Eimeria</i> (Coccidia, Protozoa). (Abstract). K. Chang (Introduced by E. R. Becker)----- | 204 |
| Effects of ultra-violet light on diapause and postdiapause grasshopper eggs (Orthoptera). Malcolm Ray (Introduced by J. H. Bodine)----- | 205 |
| A comparative study in the embryology of the turkey. (Abstract). N. W. Fugo (Introduced by Emil Witschi)----- | 206 |
| Spermatogenesis in the ovariotomized hen, a cytological study. (Abstract). Richard Avery Miller (Introduced by Emil Witschi)----- | 206 |
| Effect of nitrophenols on the respiratory metabolism of Orthopteran embryos. (Abstract). J. H. Bodine and E. J. Boell----- | 207 |
| A study of the gonadotrophic potency of bird pituitary (Domestic turkey). (Abstract). A. J. Stanley, G. M. Riley and E. Witschi----- | 207 |
| Effects of anterior pituitary thyrotropic hormone in the house sparrow (<i>Passer domesticus</i>). (Abstract). Dorothea Starbuck Miller (Introduced by E. Witschi)----- | 208 |
| Comparative effects of light stimulation and administration of gonadotrophic hormones on female sparrows. (Abstract). G. M. Riley (Introduced by Emil Witschi)----- | 208 |
| Inoculation against the development of spring fever in elementary zoology. Fae M. Shawhan----- | 209 |
| The first record of the black widow spider (<i>Lactrodectus mactans texanus</i>) for Iowa. (Abstract). Karl A. Stiles----- | 213 |
| The effects of filtered light on gastric secretion in dogs. (Title). George M. Cumins, Jr., and Paul Johnston (Introduced by W. A. Hauber)----- | |
| Melanism in birds. (Title). E. Witschi----- | |
| Induced development of tail and related structures in amphibia. (Title). Paul L. Risley ----- | |
| A strange-headed saurus. (Title). C. B. Campbell----- | |