Proceedings of the Iowa Academy of Science

Volume 43 | Annual Issue

Article 3

1936

Table of Contents

Let us know how access to this document benefits you

Copyright ©1936 Iowa Academy of Science, Inc.

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

Recommended Citation

(1936) "Table of Contents," *Proceedings of the Iowa Academy of Science, 43(1),* 17-22. Available at: https://scholarworks.uni.edu/pias/vol43/iss1/3

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.

et al.: Table of Contents

MEMORIALS

Charles Sherman Cobb 3 Elbert William Rockwood 3 Franklin Scott Wilkins 3
Alonzo A. Miller
TITLES OF PAPERS PRESENTED
Address of the President — Paul Bunyon turns scientist. R. E.
Buchanan 4 Address of the Guest Speaker — The relation of light to plant growth and movement. William J. Robbins 1
Some Selected Section Papers of General Interest
Research vs. conservation. W. W. Aitken
Botany and Bacteriology
The life cycle of Cryptococcus hominis. Ramona L. Todd 8 Progress in the regeneration of the prairie at the Iowa Lakeside Laboratory. W. A. Anderson 8
The radiometer: A simple instrument for the measurement of radiant energy in field studies, J. M. Aikman9 A Fusarium following frost injury of Robinia. J. C. Gilman and
B. B. Sproat
The vascular flora of the area to be submerged by Lake MacBride.
Edgar F. Pierson
Records of a dodder gall-weevil in Iowa. Henry Lee Dean 13 Rare and unusual plants of southeastern Iowa. Charles Gilly and Malcolm McDonald 14
Floral associations of a railroad switchyard. Charles Gilly 15 Specificity of three wood-destroying fungi for Gymnosperm and Angiosperm woods. (Abstract). H. H. LaFuze 15 The microfossil succession in a bog in northern Wisconsin. (Abstract).
Eleanor Galloway 15 The postglacial history of the forest of northwestern Wisconsin. (Abstract). L. R. Wilson 15
Studies on Sporobolomyces and Bullera. (Abstract). H. C. Olson 15 A factor in the distribution of minor veins in Dicotyledon leaves.
The presence of a "Nebenkern" in Coprinus atramentarius. (Abstract). J. E. Sass
1 Professor of Botany and Dean of the Graduate Faculty of the University of Missouri.

Pathological polyploidy in seedlings of corn and sorghum. (Abstract).	160
J. E. Sass A method of inducing mitosis in onion root tips. (Title). Irene Bucholtz A mycologist in Panama and Columbia. (Title). G. W. Martin A preliminary list of the plants of the sand dunes of Muscatine County,	100
Iowa. (Title). M. E. and R. G. Brown	
Chemistry, Inorganic and Physical	
A method for determining the exchange capacity of organic matter in the presence of nitrogen and calcium. H. C. Millar, F. B. Smith	4.4
and P. E. Brown The determination of potassium as triple nitrites. Everett F. Kelm and J. A. Wilkinson	161 169
The heat capacity and the free energy of formation of pyridine. J. N. Pearce and H. M. Bakke	171
The refractive indices of alcohol-water mixture at 25°C. W. C. Oekle and Roger Arnold	175
The effect of gelatin on the solubility of thallous salts in water. (Abstract). W. G. Eversole and F. S. Thomas	177
Electrokinetic potentials at liquid surfaces. W. G. Eversole and D. L. Deardorff The preparation and analysis of monobromoamine, dibromoamine, mon-	177
ochloroamine, and nitrosylchloride. (Abstract). G. H. Coleman and Gilbert E. Goheen	178
Binary systems with acetamide. (Abstract). Robert Butikofer and B. H. Peterson	178
The system potassium chloride-acetamide. (Abstract). Donald A. Stookey and B. H. Peterson	179
(Abstract). S. Porter MillerThe pyrolysis of isopentane at high pressures. (Title). H. N. Pearce	179
and D. R. CarmodyThe influence of electrolytes on the activity of the solvent. (Title).	
J. N. Pearce and H. C. Eckstrom	
The vapor pressure and activity of water in aqueous solutions of ammonium chloride at 25°C. (Title). J. N. Pearce and G. C. Pumplin	
Chemistry, Organic and Biological	
Chemistry in the Iowa Academy of Science. L. Chas. Raiford	181 185
V. E. Nelson The effect of fluorides on the teeth. C. A. Kempf and V. E. Nelson	191 197
Growth promoting ability of d- and l-lysine. (Abstract). Clarence P. Berg	201
George H. Coleman and Richard F. Blomquist————————————————————————————————————	201
toneally. (Abstract). Ralph M. Conrad and Clarence P. Berg The influence of <i>l</i> - and <i>dl</i> -tryptophane and kynurenic acid administra-	202
tion on bile volume and composition. (Abstract). John T. Correll, Clarence P. Berg, and Donald W. Cowan————————————————————————————————————	202
stract). J. B. Culbertson and De Walt Young	203
and pro-oxidants (Abstract) I A Hamilton and H S Olcott	203

Orientation studies in the dibenzofuran series. (Abstract). A. L. Jacoby, D. M. Hayes and P. R. Van Ess.	204
Effects of catalysts on the preparation and properties of organometallic compounds. (Abstract). M. Lichtenwalter, J. C. Bailie, and A. J.	20-
CarterThe Friedel-Crafts reaction with furans. (Abstract). M. McCorkle	205
	205 206
Hydroquinone monoacetate. (Abstract). H. S. Olcott Mixed diacyl derivatives of o-aminophenol containing an acyl derived from a sulfonic acid. (Abstract). L. Charles Raiford and J. Reid	206
Shelton Iodine substitution products of vanillin. (Abstract). L. Charles Raiford and Eugene H. Wells	207
Geology	
Some notes on the religion of the Indians. Albert B. Reagan———————————————————————————————————	209 231
Iowa Devonian ammonoids. A. K. Miller———————————————————————————————————	235
H. J. Bissell The Cenozoic history of the Upper Mississippi River. (Abstract). A. C. Trowbridge	245
New exposures of upland Nebraskan drift in northeastern Iowa. (Abstract). A. C. Trowbridge	245
The Loveland and Peorian loesses in Iowa, (Abstract), Geo. F. Kay	245
and Paul T. Miller Rate of ice withdrawal during the last glacial epoch in Iowa. (Abstract). Charles Keyes	247
The greater Des Moines River during waning glaciation. (Abstract).	247
Charles KeyesGeology and the science of teaching. John E. Smith Deciphering an earthquake message. (Abstract). M. M. Seeburger Investigation of underground water resources in Texas. (Abstract).	248 249
John T. Lonsdale	249 249
KeyesCurrent early Paleozoic classification in Iowa. (Abstract). A. C. Trowbridge	250
Oneota conodonts. (Abstract). W. M. Furnish	250 251
stract). A. C. Tester	251251
Recent erosion in Middle river traverse. (Abstract). Arthur Goshorn-Comparative progressive metamorphism of igneous and sedimentary rocks. (Abstract). Robert C. Spivey	252253
Mathematics	
The decomposition of 4 (xp-1)/(x-1). Cornelius Gouwens	255
A criterion for prime numbers. Carl W. Strom	263
On the computation of a certain definite integral. (Title). L. E. Ward	
Tests of significance in change-over experiments. (Title). A. E. Brandt The iteration of one dimensional collineations. (Title). Edward S. Allen	
Mathematical considerations underlying the construction of geographic	
maps. (Title). N. B. Conkwright	
Roundary value problems for some elliptic partial differential equa-	
tions. (Title). H. A. Luther The orthogonal polynomials of Aitken as applied to the method of	
least squares. (Title). A. C. Olshen	

IOWA ACADEMY OF SCIENC	CE !
------------------------	------

On the difference between two sample variances. (Title). A. T. Craig A direct expression of certain sets of numbers as four-squares. (Title). W. J. Rusk	
Plane perspective reflections. (Title). C. E. SnokeNote on the Droz-Farney theorem. (Title). Roscoe Woods	
Physics	
The orientation of liquid crystals of para-azoxyanisol occurring with temperature gradient and no correction. (Abstract). G. W. Stewart and D. O. Holland	267 268 268 269 270 271 272 272 273 273 273 274
Psychology	
GENERAL AND EDUCATIONAL PSYCHOLOGY	
Semantic psychology. O. M. Norlie Common and differential factors in reading vocabulary and hearing vocabulary. Irving H. Anderson and Grant Fairbanks Central determinants of peripheral manifestations in reading. Grant Fairbanks and Joseph Tiffin	277 279 283
A new technique in the treatment of electro-dermal response data resulting from continuous affective stimulation. D. U. Greenwald	287 289
Psychology of the emotions—practical aspects for the teacher. E. G. Lockhart Perception of relations in reading. Dan L. Adler A validation of certain measures of personality adjustment at the col-	291 295
lege level. D. R. Mallett	299 303 303
, (de-), Hooper	000

The adjustment problems of college freshmen and contributory factors.
(Abstract). Earle E. EmmeSome general and specific factors in transfer of training. (Abstract).
Charles Van Riper and Robert L. Milisen
STATISTICAL MEASUREMENTS
Statistical analysis of change-over or reversal tests. (Abstract). A. E. Brandt and A. Starbuck
A measure of the amount of chance in true-false tests. (Abstract).
E. O. Finkenbinder
CLINICAL PSYCHOLOGY
The effect of penalty upon frequency of stuttering spasms. (Abstract). Charles Van Riper
Interrelation of seven tests of laterality. (Abstract). D. W. MorrisFactors influencing the frequency of stuttering reactions. (Abstract). Robert Larsen
Eye-movement behavior during spasms in oral reading of stutterers. (Abstract). Hugh Wyland
Stuttering in relation to various speech sounds. (Abstract). Wendell Johnson and Spencer R. Brown
Psychology of Music
Intensity and duration aspects of rhythm, stress, and phrasing in mus-
ical performance. (Abstract). Arnold Small
Intonation in violin performance. (Abstract). Paul C. Greene
Timbre and sonance aspects of the sustained vowel "O". (Abstract). Curtis E. Tuthill
A genetic study of the vibrato. (Abstract). Alan D. Grinsted The damping constant of tuning forks. (Abstract). Scott N. Reger
Psychology of Art
A study of conditions affecting the functioning of the art appreciation
process at the child-level. (Abstract). Mildred Dow VossA study of creative imagination in artistic expression. (Abstract).
William A. McCloy
William A. McCloy A tachistoscopic study of aesthetic perception. (Abstract). Gilbert Brighouse
Psychology of Speech
Pitch and intensity characteristics of American dramatic speech. J. M.
CowanPitch perception of frequency glides. Don Lewis and Grant Fairbanks
CHILD WELFARE
Time characteristics in word-association test. (Abstract). Harold Williams
The organization of function in the delinquent. (Abstract). Newell C.
KephartHandedness in the first two years of life. (Abstract). Ruth Lederer_
The specificity of response obtained on the association-motor test. (Abstract). Newell C. Kephart and Max H. Houtchens
Physiological Psychology
The adaptation and variability of response of the human brain. (Abstract). Basu K. Bagchi
An analysis of the Berger Rhythm with special reference to the duration and amplitude of the individual wave. (Abstract). John R. Knott
Psycho-pathology
Preliminary study of certain changes occurring under sodium amytal.

Characteristic features of intellectual deterioration in schizophrenia and organic psychoses. (Abstract). Eleanor Palmer34 Optic pursuit in psychopathological and normal subjects. (Title). Howard White
Zoology
Notes on the propagation of the large mouthed bass Aplites salmoides. (Rafinesque). W. W. Aitken
pits. Everett B. Speaker 34 The hypophysis of the tiger shark. H. W. Norris 35 History and development of the Goose lake upland game refuge and nestling area. Lloyd Smith 35 Comparative anatomy in the small school. Fae M. Shawhan 36
Further observations on the firebrat, Thermobia domestica (Packard). (Thysanura). J. Alfred Adams
colm McDonald 37 A preliminary list of some families of Iowa insects. H. E. Jaques and students 38
Effects of Roentgen Rays on development and respiration of grasshopper embryos. (Abstract). Titus C. Evans
Respiratory activity of grasshopper embryo as contrasted with intact egg. (Abstract). J. H. Bodine and Edgar J. Boell
Walls
The response of normal and castrate female sparrows to injections of pregnant mare serum. (Abstract). Richard Avery Miller
Oxygen consumption and rates of dehydration of grasshopper eggs (Orthoptera). (Abstract). Vincent Thompson and J. H. Bodine 39 The effect of hypertonic solutions on development. (Abstract). Arthur
I. Schipper
Effects of exposure to low temperatures on developmental time of embryos of the grasshopper, Melanoplus differentialis (Orthoptera). (Abstract). Harold C. Burdick
The cytology of developing muscle. (Abstract). Isabelle G. Weed. 40 Effects of ultracentrifuging on paramecium. (Title). R. L. King and
H. W. Beams Human spermatogenesis. (Title). R. L. King and H. W. Beams
Demonstrations
1. Steps in a rapid celloidin method with some results. (Title). G. L. Walls
Walls 2. A high gain amplifier and oscillograph used for recording grass-