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PROCEEDINGS OF
THE MINNESOTA ACADEMY
OF SCIENCE

VOLUME TEN, 1942



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PAPERS PRESENTED AT THE TENTH
ANNUAL MEETING

UNIVERSITY OF MINNESOTA
April 24 and 25, 1942

INDEX

BIOLOGICAL SCIENCE

	PAGE
Case-building Habits of some Minnesota Trichoptera (Abstract)	
Donald Denning	6
A Coconut Fungus (Abstract) - - - - - Fred W. Bieberdorf	6
The Identification of Scales from Minnesota Fishes (Abstract)	
Kenneth D. Carlander	7
The Effect of Colchicine on the Laboratory Rat (Abstract)	
Gregory Thoennes	7
The in vitro Effect of Sulfouamide Drugs on the Growth of Micro-organisms (Abstract) - - - - - Alfred M. Elliott	8
The origin of Castes in Ants, with Special Reference to <i>Pheidole morrisi</i> Forel (Abstract) - - - - - Robert E. Gregg	8
The Land Snails of Winona County (Abstract) - - - - - John L. Buhl	9
A Genetic Study of Congenitally Missing Teeth	
Clarence P. Oliver, Peter J. Brekhuis and George A. Montelius	9
A Report on Impactions and Congenital Absence of Teeth, with Special Em- phasis on the Third Molar among 162 University of Minnesota Male Stu- dent Athletes (Abstract)	
G. A. Montelius, C. P. Oliver and P. J. Brekhuis	12
Studies on the Effects of Idolebutyric Acid in Nutrient Solutions on the Root Morphology of the Biloxi Soybean (Abstract) - - Stanley W. Oexmann	13
Cytological Studies on the Effect of Isoprene on the Embryology of the Chick Brain (Abstract) - - - - - Ralph Rossen and M. M. Keith	13
Antihemorrhagic Effect of Honey (Abstract)	
E. A. Vivino, M. H. Haydak, L. S. Palmer and M. C. Tanquary	14
Histological Observations on Experimental Animals Fed Human Diets Low in the Vitamin B. Complex (Abstract)	
Arthur J. Gatz, George M. Higgins and Ray D. Williams	15
The Present Status of "Swimmer's Itch" in Northern Minnesota (Abstract)	
Alfred M. Elliott	15
Snow Mold of Grass in Minnesota (By Title Only) - - - Ian W. Tervet	16
Recent Developments in the Control of Apple Scab (By Title Only)	
Eric G. Sharvelle	16
Problems in Forage Resource Management in Mountainous Colorado (Ab- stract) - - - - - Paul C. Lemon	16
The Forest-Tundra Ecotone on the East Coast of Hudson Bay (Abstract)	
John W. Marr	17
A Study of Sperm Viability in a Mutant <i>Drosophila</i> Showing Decreased Fer- tility (Abstract) - - - - - Ray Anderson and Clarence P. Oliver	17
Studies on the Action of the Vestigial Mutant in <i>Drosophila melanogaster</i> (Abstract) - - - - - Melvin Green	18

PHYSICAL SCIENCE

The Climates of Minnesota (Abstract) - - - - - Samuel N. Dicken	19
Minnesota Archeology: Current Explorations and Concepts	
Lloyd A. Wilford	20
The Present Status of the Soil Survey in Minnesota - - Paul R. McMiller	26
The Mathematics Needed by Students Entering Certain Branches of the Army and Navy (By Title Only) - - - - - William H. Bussey	30
The Aerial Photographic Survey of Minnesota (By Title Only)	
John E. Sweeney	30
Is Mars Inhabited? (Submitted by Title Only) - - - - - E. A. Fath	30
The Current Status of Our War Mineral Supplies (By Title Only)	
John W. Gruner	30
Some Problems of the Older Glacial Drift (By Title Only) - C. G. Stratton	30
Lake Traverse-Bois de Sioux River Flood Control and Water Conservation Project (Submitted by Title Only) - - - - - J. O. Ackerman	30

	PAGE
Geology of the Grand Portage Area, Cook County, Minnesota (By Title Only)	
George Gryc	31
Ceramic Experiments at the State Teachers College, Mankato, Minnesota	
G. John Fischer and John L. Lang	31
Geologic Model Construction (By Title Only) - - - - Edward P. Burch	33

SCIENCE EDUCATION

Rescuing Physics from the Textbooks—Experimental Demonstrations (By Title Only) - - - - - R. M. Sutton	34
The Border-line Field in Science Education (Submitted by Title Only)	
Abe Pepinsky	34
A Comparison of the Outcomes of Instruction of the Conventional High School Physics Course and the Generalized High School Senior Science Course	
Robert H. Heidel	34
The Function of the College Museum in the Teaching of Biology and the Conservation of Our Wild Life (Abstract) - - - - - M. M. Keith	36
A Study of Prerequisite Sciences and Certain Sequent Courses at the University of Minnesota (Abstract) - - - - - Clara M. Brown	37
Preliminary Report of the Committee on Aids to Science Teaching	
Palmer O. Johnson, Chairman	39

SOCIAL SCIENCE

Some War and Post War Problems:	
Geography of the Pacific War (Abstract) - - - - George H. Primmer	42
Foundations of the Conflict between Japan and the United Nations	
Richard D. Weigle	44
Post-War Economic Planning: Possibilities and Limitations	
Emerson P. Schmidt	50
Strengthening the Nation for War:	
Strengthening the Personality of Youth (Abstract) - William M. Hales	67
Morale in Wartime - - - - - D. S. Brainard	69
Measuring National Morale - - - - - F. Stuart Chapin	74
Discussion of Dr. Chapin's Paper - - - - - Mary C. Meade	83
Social Research:	
Acculturation of an Arab-Syrian Community in the Deep South	
(By Title Only) - - - - - Afif I. Tannous	85

JUNIOR ACADEMY

General:	
Rare Birds of Minnesota (By Title Only) - - - - - George Ehrhardt	86
Electroplating (By Title Only) - - - Robert Peterson and John Ring	86
Experiments on Heredity in the Fruit Fly (By Title Only) Dick Thomas	86
Photography (By Title Only) - - - - - John Super	86
Dinosauria (By Title Only) - - - - - Terrance Kelley	86
The Photoelectric Cell and Talking Over a Light Beam (By Title Only)	
Donald Moore	86
Growing Plants Without Soil (By Title Only) - - - - Robert Ness	87
The Start and Growth of a Fur Farm (By Title Only)	
Wesley Zimmerman	87
Making and Using a Signal Tracer (By Title Only) - Eugene Strimling	87
Leeches (By Title Only) - - - - - John Dix	87
Science on the March (By Title Only) Clifford Gower, Jay Gildner, Shirley Johnson, Elizabeth McKenna, John Fullen and Marvin Dunnette	87
Symposium: Science's Contribution to National Defense	
Airplane Building and Operation (By Title Only) - Stanley Peterson	87
Manganese Mining in Minnesota (By Title Only) - - Forney Knox	87
A Chemist's Answer to the Present Day Problems of War (By Title Only)	
George Rydeen	87
Iron Mining in Minnesota (By Title Only) - - - - Donald Gries	88
Latex Possibilities in the Leafy Spurge (By Title Only) - Ione Nelson	88
Farmer's Problems for Defense (By Title Only) - - Carol Johnson	88
The Dairy Industry in Stearns County (By Title Only) - Lois Naegeli	88
Plastics and Their Importance (By Title Only) - - - Rollin Tuft	88
Conservation for Defense (By Title Only) - - - Willaim Moonan	88
Defense Industries Centered in Rochester (By Title Only) - Edwin Briese	88

FROM THE PRESIDENT

The work of the Academy during this year of war has been somewhat interrupted. Firstly, by the resignation of its capable Secretary-Treasurer, Dr. Donald B. Lawrence, to enter the Air Forces as Lieutenant, and secondly, by the resignation of its Vice President, Dr. L. W. Zeleny, to enter the Air Forces as Lieutenant. It was necessary to fill these offices by appointments that were confirmed by the Council of the Academy. Dr. John W. Moore kindly consented to undertake the heavy load of the Secretary-Treasurer, and Dr. George Thiel accepted the Vice Presidency, a position that he had capably filled in the previous year. The loyal support of the work of the Academy by these men, the Council, and the Committees, has brought it through a trying period.

During this difficult time the energy of Dr. Arthur N. Wilcox supported by committee members and friends of the Academy has brought nearly to completion the Cedar Creek Forest project. The most desirable area, three hundred or more acres of this forest, has been paid for by donations. The area will be increased as opportunity arises. Title to the Forest has been vested, by deed, in the University of Minnesota under a contract agreement with the Academy, that will preserve this area for scientific studies of its natural conditions as previously outlined by Dr. Wilcox, Chairman of the Committee on the Preservation of Natural Conditions. It is highly desirable that the Academy should be enabled by the legislature to hold properties in its own name without the burden of taxation that at present limits our acquisition of lands and precludes a permanent housing for the Secretariat and the Academic activities.

Progress on the Nerstrand Woods project has been satisfactory since the area has been acquired by the U. S. Forest Service, thus preserving it for the future without further mutilation. It is hoped that this area may come into ownership of the State of Minnesota by exchange of forest lands with the federal government.

The project of the Academy for the further preservation of areas in their natural conditions for study may be limited during the continuation of the emergency, but our attention should be vigilant in protecting such areas from loss insofar as possible. It is especially desirable to foster the preservation of areas for scientific studies in the vicinity of our colleges.

On account of the difficulties of transportation it was decided by the Council not to hold the usual summer field meeting, and to postpone the annual meeting scheduled at Mankato State Teachers College until a later date; accepting, instead, the kind invitation of President Walter C. Coffey to meet again at the University of Minnesota in 1943.

The President hopes that the Academy can aid the work of various organizations that assist the dissemination of scientific

knowledge to the general public as well as broaden the interests of the scientists themselves.

The enthusiastic interest of the Junior Academy in the field meetings should be preserved by the reconvening of the summer meetings as soon as conditions make this possible. It is now planned to organize the College students, formerly forgotten in the plans of the Academy, into actively participating groups. Dr. W. C. Croxton has been asked to outline such an organization as has proved to be beneficial in other states for this college group.

R. B. HARVEY, *President.*