

MINUTES OF THE TWENTY-SIXTH ANNUAL MEETING

The twenty-sixth annual meeting of the South Dakota Academy of Science was held at Augustana College, Sioux Falls, South Dakota, May 2-3, 1941. Dr. Alvin L. Moxon, South Dakota State College, presided at all of the sessions.

The first session of the Academy was called to order at 1:30 p. m. President Clemens M. Granskou of Augustana College gave a brief address of welcome which was followed by the presentation of papers by members of the Academy.

The following committees were appointed by President Moxon: Auditing Committee—John K. Edwards, Sioux Falls; Austin P. Larrabee, Yankton; Raymond J. Greb, Huron. Resolutions Committee—H. R. Fossler, Vermillion; Leon C. Snyder, Brookings; A. R. Kendall, Mitchell.

The annual Academy dinner was held at 6:00 p. m. in the dining room of Augustana College. A short musical program followed the dinner, after which President Lyman E. Jackson of South Dakota State College addressed the members of the Academy and guests.

The second session of the Academy was open to the public and was devoted to an address of Dr. D. E. Minnich, Head of the Department of Zoology of the University of Minnesota. The subject of Dr. Minnich's address was "Human Reproduction In Relation to Human Welfare".

The third session of the Academy convened at 9:00 a. m. Papers were presented by members of the Academy until eleven o'clock when the annual business session was held.

By the unanimous vote of the Academy the following candidates were elected to membership: Harlan D. Anderson, Brookings; F. L. Bennett, Spearfish; W. F. Buchholtz, Brookings; Guilford C. Gross, Brookings; George A. Hornbeck, Huron; J. H. Jensen, Aberdeen; Charles A. Kingsley, Brookings; Norris M. Paulson, Canton; Paul Kay, Vermillion; D. F. Rayl, Sioux Falls; Paul Tschetter, Webster.

The following reports were read and adopted on motion: Report of the secretary-treasurer, report of the resolutions committee, report of the auditing committee, report of the committee appointed to investigate the feasibility of organizing a Junior Academy of Science, and the committee on the disposition of Academy funds.

The committee on resolutions offered the following:

First: The Academy expresses its appreciation to Augustana College for the hospitable accommodations generously placed at the disposal of the Academy, to Pres. C. M. Granskou for his cordial welcome, to the Social Science group and to Prof. John A. Froemke for the arrangements for an excellent banquet, musical entertainment, and a banquet speaker.

Second: The Academy expresses thanks to Augustana College for providing our guest speaker and to Dr. D. E. Minnich for his stimulating address upon an urgent social problem.

Third: The Academy thanks President Alvin A. Moxon and Secretary A. L. Haines for their competent management of the meeting.—H. R. Fossler (Chairman), A. R. Kendall, L. C. Snyder.

The committee on the disposition of Academy funds reported the following findings:

First: Academy surpluses accumulate very slowly.

Second: The present surplus is slightly over \$470.

Third: This amount is already drawing interest.

Fourth: Approximately \$400 should be available for emergencies in an account not to be checked upon.

Fifth: The Academy is not financing its own publication, **The Proceedings**, which of course it ought to do before assuming other obligations entailing large expense.

The same committee recommended the following:

First: No change be made at present in the disposition of Academy surpluses.

Second: Our Secretary-Treasurer be commended for his financial astuteness.

Third: The Academy finance its own publication in full as soon as possible.

Fourth: The Academy keep in mind the possibility, later on, of founding one or more prizes for science work in South Dakota.—Ward L. Miller (Chairman), H. C. Eyster, A. R. Kendall.

The committee on a Junior Academy of Science submitted the following: It is the opinion of the committee that, if the Academy does undertake the organization of a Junior Academy of Science, the following specific moves should first be made:

First: Present the matter to science teachers next fall at the S. D. E. A. Science Roundtables, presenting with equal force the advantages and the problems involved.

Second: Sound out the personal reactions of science teachers after the roundtable presentation has been made.

Third: Stimulate those science teachers who are enthusiastic to make contact with their administrators.

Fourth: Finally, and after the administration officers have been "sold" by their own science teachers, contact these officers directly by correspondence from the Senior Academy to get assurance of their support.

Fifth: Appoint, from the membership of the Senior Academy, a super-salesman who can and will maintain a high degree of morale from year to year among the high school science teachers, making frequent contact with them to insure wide interest and adequate participation in the annual meetings.—Ward L. Miller (Chairman), H. C. Eyster, R. E. Toczek, H. I. Maggrett.

The auditing committee consisting of John K. Edwards (Chairman), Raymond Greb, and A. P. Larrabee approved the treasurer's books.

L. S. Guss, South Dakota State College; E. P. Rothrock, State University; Harrold I. Maggrett, Washington High

School; and George A. Hornbeck, Huron College, were elected to the membership committee.

On motion by Edwin H. Shaw, Jr., all papers on Academy programs hereafter shall be limited to ten minutes.

Edward P. Churchill was unanimously elected as a member of the committee on publications.

L. S. Guss presented the report of the committee on nominations which was adopted on motion. The Secretary was instructed to cast the unanimous ballot for the following:

President—Henry Lowsma, Eastern State Normal School

First Vice-President—Edwin H. Shaw, Jr., State University

Second Vice-President—Orin F. Lofthus, Augustana College

Secretary-Treasurer—A. L. Haines, State University

On motion the expenses of the Secretary-Treasurer to the annual meeting were ordered paid.

The Secretary announced that invitations for the next meeting of the Academy has been received from President I. D. Weeks of the State University at Vermillion, and from President Lyman E. Jackson of South Dakota State College at Brookings. On motion Vermillion was selected as the place of meeting.

The meeting was then placed in charge of the new president, Henry Lowsma.

The following were appointed to serve on the nomination committee: H. Clyde Eyster, (Chairman), State University; John K. Edwards, Sioux Falls College; G. C. Wallis, South Dakota State College; A. R. Kendall, Dakota Wesleyan University; and Paul Tschetter, Webster High School.

On motion the Academy adjourned.

A. L. HAINES, Secretary-Treasurer.

LIST OF PAPERS PRESENTED

Isolation of Glutathione and Thioneine from the Blood of Selenized Steers—H. D. Anderson and A. L. Moxon, State College.

Notes on Chordata for Day County, South Dakota—Paul Tschetter, Webster High School.

Poisonous Plants of South Dakota—John K. Edwards, Sioux Falls College.

Research and National Defense—Presidential Address—A. L. Moxon, State College.

Further Studies on Sex-Linkage in the Wasp, *Habrobracon**—Raymond J. Greb, Huron College.

The Influence of Arsenic on Selenium Poisoning in Hogs—A. L. Moxon, State College.

Compound Formation between Tungstic Acid and the Salts of the Organic Hydroxyacids—Keith H. Jacobson and Edwin H. Shaw, Jr., University.

The Rate of Formation and Disappearance of Methemoglobin Following Oral Administration or Injection of Sodium Nitrite—C. W. Jensen and H. D. Anderson, State College.

Practical Value of Seed Conditioning Process for Beans—H. Clyde Eyster, University.

Condensation of Certain Phenols with Succinic Anhydride and Maleic Anhydride*—Lewis Sisson and Victor S. Webster, State College.

The Antirachitic Effectiveness of Fall and Winter Sunshine—G. C. Wallis, State College.

The Cartesian Postulate in Psychology—H. R. Fossler, University.

The Pre-Cambrian of South Dakota—E. P. Rothrock, University.

The Chemical Composition of Some Grasses*—D. J. Jorlin and A. L. Moxon, State College.

Pollen Tube Growth of a Self-Sterile Strain of *Petunia*—H. Clyde Eyster, University.

Dissociation of Phthalic Acids—Lester S. Guss, State College.

The Production of Secondary Electrons by Electrons of .67–2.43 MEV in Nitrogen*—George A. Hornbeck, Huron College.

Adaptation of the Color Reaction for Rotenone, Dihydrorotenone and Deguelin to the Photo-Electric Colorimeter—H. D. Anderson and A. L. Moxon, State College.

Cytological Studies of Toxicity in Meristem Cells of Roots of *Zea mays*. II. The Effects of Lithium Chloride—John K. Edwards, Sioux Falls College.

Study of Some Factors Affecting the Nitrate Content of Plants—E. I. Whitehead and O. E. Olson, State College.

An Analysis of Some Meadow Lark Songs*—A. V. Arlton, Dakota Wesleyan.

A Kinetic Study of the Mechanism of Action of Surface Active Toxicants toward *Paramecium caudatum*—Donald F. Rayl and Edwin H. Shaw, Jr., University.

The Use of the Rhesus Monkey in Human Anatomy—Ben Mankowski, Sioux Falls College.

The Structure of Methyl Red—Lester S. Guss and George L. Brown, State College.

Cephalopods in the Greenhorn*—Walter V. Searight, University.

Studies on the Chemical Constitution of Gum Ghatti—Delbert Hanna and Edwin H. Shaw, Jr., University.

Color Photography in the Teaching of Plant Anatomy—Ward L. Miller, State College.

The Influence of Bacteria on the Toxicity of Sodium Laurylsulfonate to Several Strains of *Paramecium caudatum*—Paul Kay and Edwin Shaw, University.

* Not submitted for publication.