

**MINUTES OF THE
TWENTY-NINTH ANNUAL MEETING
of the
SOUTH DAKOTA ACADEMY OF SCIENCE**

The twenty-ninth meeting of the South Dakota Academy of Science was held at the South Dakota State College, Brookings, South Dakota, May 5-6, 1944. President Orin M. Lofthus presided at all of the sessions, which were held in the State College Memorial Union.

First Session

The first session was called to order at 2:00 p. m., Friday, May 5. President Lyman E. Jackson of State College opened the session with a brief address of welcome. He was followed by the presentation of papers by the members of the Academy.

President Lofthus appointed the following committees:

Auditing Committee:

H. W. Kloefer, Dakota Wesleyan University
E. R. Binnewies, South Dakota State College
E. P. Churchill, University of South Dakota

Resolutions Committee:

J. A. Froemke, Augustana College
R. J. Greb, Huron College
E. Griswold, University of South Dakota

Second Session

The annual Academy banquet was held in the ballroom of the Pugsley Union at 6:00 p. m. This was followed by a musical program rendered by the South Dakota State College Faculty.

Third Session

At 8:00 p. m., in the auditorium Dr. Van R. Potter of the McArdle Institute of Madison, Wisconsin, addressed the Academy and friends on the subject "Recent Progress in Cancer Research."

Fourth Session

The Saturday morning sessions opened at 9:15 a. m. Papers by members of the Academy were read until 11:00 a. m., at which hour the Business Session was held.

Business Session

It was moved and seconded that Dr. Ward L. Miller be asked to give his report on the "Organization of the Junior Academy of Science." Motion was carried. It was moved and seconded and carried that the books of the Junior Academy of Science be audited by the Senior Academy of Science.

The membership committee recommended the following list of candidates for membership:

Earle E. Emme, Mitchell
 Leslie E. Johnson, Brookings
 William H. Johnston, Vermillion
 S. A. McCrory, Brookings
 James D. Nelson, Sioux Falls
 Herman P. Schmitt, Vermillion
 Frank G. Schultz, Brookings
 Wilbur O. Wilson, Brookings
 Myrick N. Bolles, Brookings

The auditing committee reported that the books of the Secretary-Treasurer had been examined and found correct.

The resolutions committee presented the following report:

Be it Resolved:

1. That the Academy expresses its appreciation to State College for the accommodations so generously placed at its disposal, to President Lyman E. Jackson for his cordial welcome, and to Dr. L. S. Guss and Dr. Victor S. Webster for having arranged such excellent entertainment in the form of a banquet and music.
2. That the Academy wishes to thank State College for having provided the guest speaker, and to

thank Dr. Van R. Potter for his timely address on "Recent Progress in Cancer Research."

3. That the Academy notes with regret the passing of D. F. Jones.
4. That the Academy is proud of the fact that a number of its members are serving with the armed forces. It is the earnest hope of the Academy that the progress of the war will permit their speedy return to our midst.
5. That the Academy compliments President Orin M. Lofthus and Secretary A. L. Haines for their efficient management of the meeting.

Committee:

Ernest Griswold
 John A. Froemke
 Raymond J. Greb

Dr. H. C. Eyster reported for the publications committee that because of unavoidable delays due to war conditions the Proceedings of the Academy was not ready for distribution.

Dr. E. P. Churchill was nominated to act as the third member of the publications committee. On motion Dr. Churchill was elected.

Dr. E. P. Churchill asked members who had presented papers at the meeting to submit them for publication not later than August 1.

Dr. Victor S. Webster, chairman of the committee on proposed affiliation with the American Association for the Advancement of Science, gave the following report:

Report of the committee to determine the requirements for affiliation with the American Association for the Advancement of Science.

Upon request, Dr. Forest R. Moulton, Permanent Secretary of the American Association for the Advancement of Science, sent to the committee information containing the procedure for becoming an affiliated society which is quoted below:

"The steps to be taken by a society to become an affiliated or associated society are: First its secretary files with the Permanent Secretary an application for the relationship, a copy of its constitution and by-laws, a list of its members and a copy of its publication, if it has any; then the application and accompanying data are presented by the Permanent Secretary to the Executive Committee, which makes its recommendation to the council."

Since affiliated societies pay no entrance fees or dues and are entitled to one representative on the council of the Association and since affiliation with the Association affords national recognition of the Academy, it was the unanimous opinion of the committee that steps should be taken to become an affiliated society as soon as possible.

The immediate past president of the Academy, who appointed the committee, felt that the committee had no authority to proceed further since it was appointed merely to determine the requirements necessary to become affiliated. Petitions were therefore circulated among the membership until a sizeable majority of all the members had indicated approval. Since no opposition was shown, the Secretary of the Academy was asked to take the necessary steps to fulfill the requirements for affiliation as outlined in the communication from Secretary Moulton of the Association.

Respectfully submitted,

Victor S. Webster, Chairman
Raymond J. Greb
John A. Froemke

On motion the expense of the secretary-treasurer to the annual meeting was allowed.

The nominating committee recommended the following to fill the offices of the Academy for the year 1944-1945:

President—Lester S. Guss, State College
First Vice-President—Raymond J. Greb, Huron College
Second Vice-President—F. L. Bennett, Black Hills
Teachers College

Secretary-Treasurer—A. L. Haines, University of
South Dakota

The following were elected as members of the membership committee for the year 1944-1945:

H. W. Kloefer, Dakota Wesleyan University
John A. Froemke, Augustana College
Raymond J. Greb, Huron College
A. L. Moxon, South Dakota State College
H. D. McEwen, University of South Dakota

On motion, the Academy adjourned at 12:30 p. m.

A. L. HAINES,
Secretary-Treasurer.

IN MEMORIAM

LESTER SAMUEL GUSS

Died May 17, 1944

The members of the South Dakota Academy of Science were deeply shocked when the news came of the sudden passing of Dr. Lester S. Guss, whom they had elected president only ten days before. His loss is felt all the more deeply when it is now apparent that his untiring efforts to make the meeting of the Academy at Brookings a success may have contributed to the strain on his already weakened heart. His devotion to science was equalled only by his love for his family.

In addition to the administration of a department in very difficult times, and teaching, Dr. Guss worked long hours in the laboratory on research, much of which was a direct contribution to the war effort. His colleagues, students and many friends will miss his wise counsel and genial companionship.

Lester Samuel Guss was born at Wolford, North Dakota, on June 10, 1903, the ninth of ten children. His childhood was spent on a North Dakota farm and his early education obtained from a country school taught by his older sister, Sally. He attended high school at Rugby, North Dakota. He worked his way through the University of North Dakota, receiving the B.S. degree in Chemistry in 1923 and the M.S. in 1925. Dr. Guss taught for three years in the high schools of Minnesota and following his marriage to Doris Richter, came to South Dakota State College in 1928 as instructor in chemistry. He became interested in chemical warfare and was commissioned in the CWS reserve. Dr. Guss served one year as second in command of a CCC camp and worked up to Captain in the CWS before resigning in 1941 in order to serve his country better as a chemist. His graduate study was continued during 1936-38 at the University of Minnesota for which he was granted the Ph.D. degree in 1938. He returned to South Dakota State College as associate profes-

sor and associate head of the chemistry department. In 1940 Dr. Guss was elevated to professor of chemistry and head of the department. The departmental curriculum was reorganized and through his untiring efforts the department was approved for training professional chemists by the American Chemical Society. He worked on the WPB rubber program with Dr. I. M. Kolthoff at the University of Minnesota during 1943, his research covering indicators in anhydrous solvents, acidity in anhydrous solvents, and properties of soap solutions.

Dr. Guss was a member of the American Chemical Society, serving as Chairman of the Sioux Valley Section during 1943-44. He was a member of the South Dakota Academy of Science, holding the office of second vice-president 1942-43, first vice-president 1943-44, and was elected president on May 6, 1944 for the ensuing year. He had held membership also in the Deutsche Chemische Gesellschaft, Sigma Xi and the research club of State College. His interest in community affairs is indicated by his active membership and participation in the Presbyterian Church and its Men's Brotherhood and the Rotary Club and his leadership of a Cub Scout pack. His hobbies were mathematics, fishing and photography.

Dr. Guss is survived by his wife, three small sons, Donald, Bernard and Paul, his aged mother, three brothers and three sisters.

His devotion to God, his family, his country and to his scientific ideals will be a guiding light to those of us he has left to carry on.

Victor S. Webster.

LIST OF PAPERS PRESENTED

- Differences in Lengths of Gestation Periods of Breeds of Beef Cattle, Swine and Sheep—Leslie E. Johnson, State College.
- The Stipulative Function and Induction—H. R. Fossler, University.
- The Prospect Before Us.—Presidential Address—Orin M. Lofthus, Augustana College.
- The Effect of the Effluent from the Sioux Falls Sewage Treatment Plant on the Fauna of the Big Sioux River.—Edward P. Churchill, University.
- Tomato Experiments—Leon C. Snyder, State College.
- Natural Coloring Matters*—E. G. Cobb, Dakota Wesleyan University.
- The Effect of Relative Humidity on Hatchability of Turkey Eggs—W. O. Wilson, State College.
- Psychological and Educational Implications from Researches on College Superstitions—Earl E. Emme, Dakota Wesleyan University.
- A New Topographic Map of South Dakota—E. P. Rothrock, University.
- Male Mosaics, Gynanders and Androgenesis in *Habrobracon**—Raymond J. Greb, Huron College.
- Electrolytic Properties of Soap Solutions*—Lester S. Guss, State College.
- Diseases of Cereals, Flax and Other Crops in South Dakota in 1943.—W. F. Buchholtz, State College.
- A Color Test for Amines—Victor S. Webster, State College.
- Analogues of Aniline Black—Herman P. Schmidt and Edwin H. Shaw, University.

- The Effects of Auxines on the Action of Diastase*—H. C. Eyster, University.
- Arsenic Content of South Dakota Cretaceous Formations—A. L. Moxon, W. V. Searight, O. E. Olson and L. L. Sisson, State College.
- Investigation of the Insecticidal Value of an Extract from *Amorpha fruticosa*—S. A. McCrory, State College.
- Some Observations on the Nitrate Content of Oat Plants—E. I. Whitehead, O. E. Olson and A. L. Moxon, State College.
- Human Linkage Studies—H. Warner Kloefer, Dakota Wesleyan University.
- Occurrence of *Gryphea aucella**—W. V. Searight, University.
- The Carotene Content of Sheep Blood—Twila M. Paulson, R. J. Hilmoie and A. L. Moxon, State College.
- The Need for a Mosquito Survey in South Dakota—H. C. Severin, State College.

*Not submitted for publication.