

TWENTY-SECOND ANNUAL MEETING

The twenty-second annual meeting of the South Dakota Academy of Science was held at State College, Brookings, S. D. May 7-8, 1937. Dr. Gregg M. Evans, president of the Academy presided.

The first session was held in the lecture room of the Chemistry Building and was opened at 1:30 p.m. by an address of welcome by President Charles M. Pugsley of State College. After this, papers were read by members of the Academy until 5:10 p.m.

At 6:30 p.m., members of the Academy, members of the Social Science group, members of the State College faculty and friends of the Academy attended the annual Academy Dinner served in the State College dining room. At the close of the dinner a short program was presented. The president of the Academy and also the president of the Social Group were introduced, each responding with short talks. Mr. Harold Reinecke of the Federal Bureau of Investigation, guest speaker for the Academy and Mr. Pierre Lejins, guest speaker for the Social Science group, were introduced. Mr. Boughton and Mr. Beery gave two musical numbers. Then there followed a display of magic by Dr. Ward L. Miller of State College.

The second session was opened at 9:00 p.m. when Howard Reinecke, guest speaker, addressed the Academy and friends in the College Auditorium on the subject "The F.B.I.'s Warfare Against Crime."

The third session was opened at 9:00 a.m., May 8, in the lecture room of the Chemistry Building. Papers by members were read until noon when the annual business meeting was held.

Business Meeting

The president appointed a resolutions committee consisting of Dr. E. P. Rothrock, Chairman, Professor H. C. Severin and John Froemke, and an auditing committee consisting of Dr. B. B. Brackett, chairman, Dr. F. E. Meserve, and Dr. A. R. Kendall.

Dr. Ward L. Miller, chairman of a committee, appointed at the last meeting to formulate a definite policy concerning the qualifications of those who present papers at the annual meeting, gave the following report:—

The Committee recommends that in order to stimulate a spirit of research at the student level in colleges and universities of South Dakota, it shall be the policy of the South Dakota Academy of Science to welcome to its science programs such students as may be recommended to the Academy by research directors or sponsors who themselves are Academy members.

Ward L. Miller,
Arthur M. Pardee.

It was moved and seconded that the By-Laws be suspended and the recommendation of the committee be made a part of the By-Laws. Carried.

The auditing committee made the following report:

We have examined the books of the Secretary-Treasurer and find them correct.

Committee B. B. Brackett,
A. R. Kendall,
F. E. Meserve.

On motion the report of the committee was accepted.

The resolutions committee made the following report which was accepted by motion:—

Be it resolved:—

1. The Academy expresses its appreciation of the royal hospitality extended to it by State College, the welcome of President Pugsley, the efficiency of the committee on arrangements under the direction of Prof. G. I. Gilbertson and the entertainment furnished by Dr. Ward L. Miller and Professors Boughton and Beery.
2. That it gives its thanks to J. Edgar Hoover, chief of the Federal Bureau of Investigation for furnishing our guest speaker and to Mr. Harold Reinecke for his excellent presentation of the work of the Federal Bureau of Investigation.
3. That the Academy feels deeply the loss of our fellow members, Dr. Kurt Franke, Professor William H. Powers and Dr. H. B. Mathews, and instructs the Secretary to convey our sympathy to the bereaved families.

Signed,

E. P. Rothrock,
Dorothy Saville,
H. C. Severin,
Committee on Resolutions.

The nominating committee consisting of A. V. Arlton, J. S. Machin, Minerva Kellogg, H. V. Atkinson and A. P. Larrabee recommended the following candidates for the various offices of the Academy for the year 1937-38.

President Charles A. Hunter, University
 First Vice-President Carl G. Watson, School of Mines
 Second Vice-President Ward L. Miller, State College
 Secretary-Treasurer A. L. Haines, University

The candidates as nominated were unanimously elected.

On motion Dr. E. P. Churchill was elected a member of the publication committee.

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

An invitation from the Iowa Academy of Science to meet with them in joint session at Sioux City the latter part of April 1938 was read.

An invitation from the Secretary-Treasurer of the Black Hills Science Club to meet at Rapid City at some future time was read.

It was moved and seconded that we accept the invitation of the Iowa Academy of Science to meet in joint session at Sioux City. After considerable discussion the executive committee was instructed to investigate the question, with power to act.

It was moved by B. A. Dunbar and seconded by E. P. Churchill that the South Dakota Academy of Science have its regular annual meeting regardless of the action of the executive committee. The motion was carried.

On motion the President was instructed to appoint a committee to write a brief tribute to the late Dr. Kurt Franke, Professor William H. Powers and Dr. H. B. Mathews, to be entered upon our minutes and published in the proceedings of the Academy.

The President appointed the following as members of the committee: B. B. Brackett, A. L. Moxon, and J. G. Hutton.

The committee on membership recommended the following candidates for admission to membership in the Academy:—

E. D. Barr, Instructor in Chemistry, State College.
 Willis L. Carruth, Instructor in Chemistry, University.
 George Converse, Graduate Student, University.

Lyle Davis, Asst. Professor, State College.
 D. E. Herreman, Graduate Student, State College.
 Leo J. Geppert, Graduate Student, University.
 Manfred Johnson, Asst. Prof. Physics, State College.
 Allan G. Peterson, Student, State College.
 Roland V. Rethke, Assistant, State College.
 Dorothy Saville, Research Asst., State College.
 Hubert H. Serr, Graduate Student, University.
 Milton H. Shennum, Teacher, Beresford High School.
 Leon C. Snyder, Instructor, State College.
 Stanley P. Swenson, Assoc. Prof., State College.
 G. C. Wallis, Research Asst., State College.
 Victory S. Webster, Chemistry Instructor, State College.

On motion the candidates recommended by the membership committee were elected to membership.

On motion the Academy adjourned.

A. L. HAINES,
 Secretary.

IN MEMORIAM

William Howard Powers

Died November 9, 1936

There was an undercurrent of sadness at our meeting in Brookings for all the older members of the Academy because Professor William Howard Powers, a member from the beginning of our organization, a very active participant in our previous meetings and the president of a year ago, had died only a few months before our 1937 meeting. The absence of Professor Powers at a meeting held in Brookings caused a feeling of unreality to many of us.

Professor Powers was born September 2, 1868, at Woodville, Ohio, from parents of old New England descent, and he was eligible for membership in the Society of Colonial Wars in which he held membership at one time. He was the youngest of eight children, several of which survive him. He attended the public schools of Ohio and Michigan, and received his bachelor of arts degree from Miami University, Oxford, Ohio. After teaching for several years, he went to Harvard University where he received his master of arts degree in 1899.

Professor Powers was married in 1902 at Perryville, Ohio, to Edith Lampman, who has since been a most devoted and efficient helpmate in every possible way, and who survives him as a present resident of Brookings. Two children were born to this marriage, namely Dr. Howard Powers now in the government service in Hawaii, and Pamela, now Mrs. Windsor Straw, living with her husband and children in Brookings.

Professor Powers came to South Dakota in 1901 and taught for several years at Huron College, Huron, South Dakota. In 1905, he came to the South Dakota State College, where he served for more than 31 years most faithfully and brilliantly, as librarian and assistant professor of English Literature. The present fine library of the college has been collected largely through his efforts. For more than twenty years the work was done under quite unfavorable conditions. The rooms used were not at all suited to the purpose, and finally became so overcrowded that one could not understand how the efficient library service could be handled as it was maintained. Those who know the circumstances can but regret that Professor Powers could not have had the splendid

Lincoln Memorial library building in which to work for many years more than he had it.

As a teacher he was very successful and students who had any natural taste for literature or any ability to develop such a taste were very fortunate to be assigned to his classes. He could analyze writings to make it clear to others why they were good or ordinary, in such a way that all could understand. In fact he taught his students to analyze and weigh the real worth of the writings assigned to them for study.

He himself loved beautiful English either in poetry or prose. He loved real beauty everywhere. He loved beauty in books, in pictures, in architecture, in music, in flowers, in trees and in all nature. While he usually preferred the quiet and the serene, he also loved the grand and the majestic. He seemed never to tire of looking at the Missouri where a curve or an eddy shows the power of its muddy current; and when near the Missouri would often ask for one more look before going home.

While never robust physically he gave almost uninterrupted service to his duties at the State College, and never let outside duties or pleasures keep him from class or library an hour more than was necessary. In fact he worked at the library almost literally up to the hour of his death.

With the greatest devotion to the State College, its ideals, its students and its alumni, he found time to give attention to many and varied outside activities. His interest and his help were always ready for any form of up-lift or true development movements anywhere, in the school, in the city, in the state, in the nation or in the world. This was especially true when such efforts were directed to the less-fortunate and to all classes of young people. Whether students of the college or not he was always ready to listen to the problems of the young and their questions about life. He always tried to quiet and soothe their ways of thinking and never advised any form of violence. Fortunate indeed were those who went to him for advice whether as an official counselor or in any informal way.

To make a list of the societies to which Professor Powers belonged and in which he worked and in many of which he held important offices and to try to list the undertakings that he aided might lead the reader to think that the lists were complete. But we should certainly overlook some of the many that would belong in the lists. He simply aided everywhere and in all ways that he thought worthy of success.

In appreciation of his aid through many years, the Boy Scouts have placed a fine memorial tablet at his grave in beautiful Greenwood cemetery near Brookings. The city library board of Brookings will place a memorial tablet in the city library, for which Professor Powers did so much for many years. The college will open this fall in the great college library a Powers memorial room with many special books donated in part by the Powers family and others purchased by gifts of money sent in by friends for this purpose. In this room, in addition to other suitable memorial articles, will be another fine memorial tablet.

And yet the most sacred memorials of all will be in the hearts of his family members and his near friends, who have worked with him and have known his inmost thoughts through the years of his service in South Dakota.

—B. B. Brackett.

PROGRAM

The following program was presented:

- Address of Welcome** Pres. Chas. W. Pugsley,
South Dakota State College.
- Twenty New Species of Ectoparasitic Trematodes
..... F. E. Meserve, Sioux Falls College.
- Physiological and Antigenic Studies of Organisms Iso-
lated from the Chamberlain Epidemic** H. Gilbert
Creelius and Charles A. Hunter
- Some Manifestations of a Vitamin D Deficiency in
Mature Dairy Cows G. C. Wallis, South Dakota
State College
- Water Table Fluctuations** E. P. Rothrock
University of South Dakota
- President's Address: "Things that Can't Be Done"
..... Gregg M. Evans, Yankton College
- The Design and Construction of a Broadcast Transmitter
..... W. H. Jordan and R. E. Rawlins, Jr.,
University of South Dakota
- Intestine Length and Food in Certain Minnows
..... Thelma Mitchell and Edw. P. Churchill,
University of South Dakota
- The Histology of Dehiscence in the Fruit of the Moss Rose**
..... Roland Rethke, South Dakota State College
- The Transformation of Protein into Fat, and Fat into Car-
bohydrate** H. V. Atkinson,
University of South Dakota
- What About Television B. B. Brackett,
University of South Dakota
- The Most Harmful Insects in South Dakota During the
Year 1936 H. C. Severin,
South Dakota State College
- The Use of Selenium for the Isolation of E. typhi**
..... Rhett G. Harris and Charles A. Hunter,
University of South Dakota
- Historical Chemistry for the Science Chemistry Major**
..... Arthur M. Pardee, University of South Dakota

** Denotes papers not submitted for publication in the proceedings.

- A Comparison of Certain Physical Properties of Five
Kinds of Wool Dorothy Saville,
South Dakota State College
- The Anatomy of the Pacific Coast Lamprey
H. H. Serr, University of South Dakota
- The Kinetics of the Toxic Action of Antiseptic Agents
Toward Paramecium Caudatum Edwin H. Shaw, Jr.,
University of South Dakota
- A Cat with Only One Kidney A. P. Larrabee,
Yankton College
- Glycerides of Phenoxyacetic Acid George Converse and
Edwin H. Shaw, Jr., University of South Dakota
- Hydrogen Sulphide Production by the Enteric Group of
Organisms H. Gilbert Creelius and Charles A. Hunter,
University of South Dakota
- A Matter of Fact H. R. Fossler,
University of South Dakota
- The Effect of a Limited Supply of Phosphorus on the Ni-
trate Reducing Ability of Kentucky Blue Grass
B. P. Waltner, Freeman College
- Coagulation of the Prussian Blue-Gum Ghatti Sol by
Phenol and HCl Edwin H. Shaw, Jr.,
University of South Dakota
- Further Evidence of Botulism in South Dakota**
James E. Weiss and Charles A. Hunter,
University of South Dakota
- Appearance of Cataract in Rats on a Vitamin B₂ Low Diet
..... Minerva Kellogg, South Dakota State College
- Histological Reactions of the Geranium to Indole Acetic
Acid** O. Biddulph, University of South Dakota
- An Hermaphroditic Toad Guy Van Epps and
Edw. P. Churchill, University of South Dakota
- Soil Profiles and Climatic Outlook in South Dakota**
J. Gladden Hutton, South Dakota State College
- Some Molecular Complexes of Magnesium Bromide with
Organic Compounds John Martin,
South Dakota State College
- The Toxicity of Orally Ingested Se, Te, V, As, and Mo **
..... A. L. Moxon
- Subdivision of the Pierre Formation** Walter V. Searight,
University of South Dakota