

TWENTIETH ANNUAL MEETING

The twentieth annual meeting of the South Dakota Academy of Science was held at Dakota Wesleyan University, Mitchell, South Dakota, on April 12-13, 1935. Dr. Edw. P. Churchill, President of the Academy, presided.

The afternoon session on April 12 was called to order at 2:00 P. M. and after an address of welcome by President Earl A. Roadman of Dakota Wesleyan, the time was devoted to the presentation of papers by members of the Academy.

The Academy dinner was held in the dining hall of Dakota Wesleyan at 6:30 P. M. After the dinner, the guest speaker, Dr. J. Howard Mathews, Director of the course in Chemistry at the University of Wisconsin, spoke in the Chapel of the University on the subject "The Use of Scientific Methods in the Detection of the Criminal."

The forenoon session on April 13 was called to order at 9:00 A. M. and papers were read until the business session.

Business Session

The business session of the South Dakota Academy of Science was called to order by the President, Dr. Edw. P. Churchill, at 12:20 p. m., April 13, 1935.

Minutes of the last meeting were read and approved.

The auditing committee reported that the books of the Secretary-Treasurer had been examined and found correct. On motion the report was accepted.

The report of the resolutions committee was read and approved.

The nominating committee recommended the following members as candidates for the various offices of the Academy:

Wm. H. Powers, President, State College.
Gregg M. Evans, First Vice-President, Yankton College.
Charles A. Hunter, Second Vice-President, University.
A. L. Haines, Secretary-Treasurer, University.

It was moved and seconded that the Secretary-Treasurer be instructed to cast a unanimous ballot of the Academy for the officers as recommended. Carried.

On motion Dr. Edw. P. Churchill was appointed a member of the publication committee.

On motion the Secretary-Treasurer was instructed to send a letter to Dean H. A. Hill of Huron College, expressing regret that he was unable to attend the annual meeting of the Academy as had been his custom for many years.

It was moved and seconded that the Secretary ascertain the names of the members of the State Planning Board and inform those members who are also members of the Academy that they are to constitute a committee, with President Wm. H. Powers as chairman, to carry out the provisions as recommended by the resolutions committee. Carried.

The following persons, having been recommended by the membership committee, were elected to membership:

O. Biddulph, Asst. Professor of Botany, University.
H. W. Carhart, Graduate Student, University.
Roland Marquardt, Student, Huron College.
C. B. Rutenber, Professor of Chemistry, Huron College.
V. T. Smith, Professor of Education, Huron College.
Max Feldman, Student, University.

On motion it was decided to hold the next annual meeting of the Academy at the University of South Dakota at Vermillion.

The meeting then adjourned.

A. L. HAINES,
Secretary.

PROGRAM

The following program was presented:

(** Denotes paper not submitted for publication in the proceedings):

- Address of Welcome** ----- President Earl A. Roadman
Dakota Wesleyan University
- Some Physical and Chemical Properties of Cocklebur
(*Xanthium commune* Britton) Oil -----
----- Ralph E. Dunbar, Lyle Tussing
- Rust Spores Caught on Slide Exposures in South Da-
kota 1932-1934** ----- G. W. Eade
- A Summary of the Functions of Blood ----- A. V. Arlton
- President's Address "Janus' View" ----- Edw. P. Churchill
- Chalk Rock Investigations ----- Gregg M. Evans
- The Future Outlook of Typhoid Fever in South Da-
kota* ----- Charles A. Hunter
- Preparation of Bromomesitylene -----
----- Frederick Duke, Harvard Lewis, Ralph E. Dunbar
- The Preparation and Rearrangement of the DiAlkyl
Esters of Maleic Acid. Arthur M. Pardee, Paul A. Shearer
- The Anatomy of the Digestive and Urogenital Sys-
tems of the Horned Toad ----- Virgil O. Johnson
- Laboratory Methods for the Detection of Sub-clinical
Mastitis ----- Gilbert Crecelius, Charles A. Hunter
- The Coagulation of a Gum Ghatti Solution of Prus-
sian Blue ----- Homer W. Carhart, Edwin H. Shaw, Jr.
- Soil Ruin and Soil Erosion in South Dakota** -----
----- J. Gladden Hutton
- Interpretation of Group Intelligence Test Scores -- V. T. Smith
- Scientific Breeding Necessary for Future Progress in
Mink Farming ----- Lyl Andersen
- Experiments with an Albino Ground Squirrel -----
----- Wendell White, A. V. Arlton
- The Central Placenta of *Lychnis* ----- Mrs. Eleanor K. Evenson

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p. 380.

- Placentation in the Pink Family, Caryophyllaceae --
----- Ward L. Miller
- Taxonomy of Grasshoppers with Observations and
Suggestions for its Improvement ----- H. C. Severin
- Relevance of Method to Problem** ----- H. R. Fossler
- An Improved Method for the Detection of Hydrogen
Sulphide Production by Organisms -----
----- Max Feldman, Charles A. Hunter
- Use of Pumice as a Support for Copper-Chromium
Oxide Catalysts in Dehydrogenations -----
----- Donald Cooper, Robert Cooper, Ralph E. Dunbar
- C. Botulinum* in South Dakota** -----
----- Orpheus Myers, Charles E. Hunter
- A Quantitative Study of the Pyrolytic Products of
Azo Benzene ----- Louis Boullion, Arthur M. Pardee
- Study of Cultures of *Eberthella typhi* Isolated Dur-
ing the Chamberlain Epidemic -----
----- Gilbert Credelius, Chris. Paolillo, Charles A. Hunter
- Chemiluminescence ----- Roldan Marquardt
- The Physiological Basis of Drought Resistance in
Plants** ----- O. Biddulph
- The Origin of the Coteau des Prairies ----- E. P. Rothrock
- Fox Hills Coal** ----- Walter V. Searight
- The Water Birds, a Problem in Conservation** A. P. Larrabee

LIST OF MEETINGS OF THE SOUTH DAKOTA ACADEMY
OF SCIENCE

Number	Volume*	Date	Place	President
1	I	Nov. 22-23, 1915	Aberdeen	H. I. Jones
2	I	Nov. 27-28, 1916	Watertown	H. I. Jones
3	II	Nov. 2-3, 1917	Brookings	A. N. Cook (1st Vice-President, A. N. Hume, presid- ed.)
4	III	May 23-24, 1919	Vermillion	J. G. Hutton
5	IV	Nov. 26, 1919	Mitchell	Freeman Ward
6	V	Dec. 10-11, 1920	Yankton	C. W. Cuno (2nd Vice-President, Doane Robinson, presided.)
7	VI	Nov. 18-19, 1921	Brookings	Doane Robinson
8	VII	Oct. 20-21, 1922	Huron	A. N. Hume
9	VIII	Sept. 3-4, 1923	Rapid City	A. M. Pardee
10	IX	May 1-2, 1925	Vermillion	L. A. Stout
11 (12)**	X	April 30, 1926 May 1	Mitchell	J. G. Hutton
12(13)**	XI	May 20-21, 1927	Brookings	A. P. Larrabee
13	XIV	May 4-5, 1928	Huron	H. A. Hill
14	XIV	May 1-2, 1929	Sioux Falls	H. C. Severin
15	XIII	May 1-2, 1930	Vermillion	E. P. Rothrock
16	XIV	May 8-9, 1931	Madison	A. V. Lowry
17	XIV	May 6-7, 1932	Yankton	B. B. Brackett
18	XIV	May 5-6, 1933	Brookings	G. A. Gilbertson
19	XIV	May 4-5, 1934	Huron	A. V. Arlton
20	XV	April 12-13, 1935	Mitchell	Edw. P. Churchill

* Volume of the Proceedings which covers the meeting.

**Erroneously referred to in the Proceedings as the twelfth and thirteenth meetings.