

THE BEGINNING OF THE ILLINOIS STATE ACADEMY OF SCIENCE*

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By the middle of the nineteenth century, interest in different fields of science was growing in Illinois, as in other states. Various scientific organizations were formed, some limited to certain sciences, others to local situations. In the former group may be mentioned the first Geological Survey of Illinois (7), which began in 1851, the Illinois State Agricultural Society (6), which was organized at Springfield in 1853, the State Natural History Society of Illinois (2), which was organized at Bloomington in 1858, and the present Illinois State Geological Survey (1), organized in 1905. In the latter group the Chicago Academy of Sciences (3), organized in 1857, was preeminent, and other local scientific organizations may be noted. The Ottawa Academy of Natural Sciences (10) was founded in 1866. The Peoria Scientific Association (4) was organized in 1875. From a clipping from the *Peoria Journal-Transcript* of May 24, 1936, the following statement was taken: "As early as 1839 the Peoria Scientific and Historical Society was in existence." The Peoria Academy of Science of the present time was organized in 1930. The Academy of Science of South-

ern Illinois (5) was organized at Carbondale December 2, 1876.

As the years passed it came to be recognized as highly desirable that there should be a unification of the scientific interests of the state, and that an organization of those engaged in scientific work throughout the state should be formed. Accordingly, an invitation was extended to all persons engaged in the teaching of the sciences in the universities, colleges, and high schools, and those employed in other lines of scientific work, to meet at Springfield December 7, 1907 (8). More than 100 persons responded, among them a good representation of the leaders in the sciences in the universities.

The meeting was held in the Senate Chamber of the Capitol. The meeting was called to order by A. R. Crook, Director of the State Museum, at 10:00 A.M. U. S. Grant, of Northwestern University, was elected temporary chairman. Secretary of State James A. Rose, on behalf of the Governor of the State, welcomed the group to the State Capitol. T. C. Chamberlin, of the University of Chicago, gave the opening address. Professor Chamberlin introduced his address by extending the felicitations of the Chicago Academy of Sciences, and sketching some of the salient features of its history, covering a period of a little more than fifty years, as a means of suggesting some of the problems that the new academy

* This history of the first few years of the Illinois Academy of Science has been written because of the great scarcity of copies of Volume I and other early volumes of the Transactions of the Illinois State Academy of Science, in order that the membership of the Academy may know something about how the Academy was organized and began its work. The first two annual meetings are included in this sketch. The Committee will appreciate receiving any additional information or comments concerning the early history of the Academy.

would have to face. He then gave an address on the subject "The Advantages of a State Academy of Science." Professor S. A. Forbes, of the University of Illinois, then gave an address on the subject, "History of the Former State Natural History Societies of Illinois."

On motion of S. W. Williston, of the University of Chicago, A. R. Crook was elected temporary secretary. It was voted that the Chair appoint a committee of three on organization. This committee was authorized to add six others to its number. These nine were directed to draw up a constitution and nominate officers. The Chair appointed S. W. Williston, of the University of Chicago, W. A. Noyes, of the University of Illinois, and C. B. Atwell, of Northwestern University. This committee added T. C. Chamberlin, of the University of Chicago; S. A. Forbes, of the University of Illinois; A. R. Crook, of the State Museum; F. L. Charles, of the Northern Illinois State Normal; H. V. Neal, of Knox College; and B. B. James, of James Millikin University. While the committee was at work, there was a general discussion of the plans and aims of the organization. The meeting then adjourned until 2 P.M.

The afternoon session was called to order at 2:15 P.M. by the president pro tempore. The draft of the proposed constitution was presented by S. W. Williston, Chairman of the Committee. It was read by the Secretary of the Committee, F. L. Charles, and was then considered section by section. After revision and discussion the constitution and by-laws were adopted. It was voted that the first annual dues should apply for the year 1908. Chairman S. W. Williston then presented the report of the Committee on nomina-

tions. It was voted that the Secretary cast the ballot for the following nominations, and they were declared elected:

President, T. C. Chamberlin, of the University of Chicago.

Vice-President, Henry Crew, of Northwestern University.

Secretary, A. R. Crook, Director of the State Museum.

Treasurer, J. C. Hessler, of James Millikin University.

Third Member of the Publications Committee, H. F. Bain of the State Geological Survey.

Committee on Membership: S. A. Forbes, of the University of Illinois, chairman; T. W. Galloway of James Millikin University; J. P. Magnusson, of Augustana College; C. H. Smith, of the Hyde Park High School; B. B. James, of James Millikin University.

The Membership Committee was authorized to accept as charter members those persons who had previously expressed their desire to be enrolled as such, but were unable to be present at the meeting. The committee acted upon the names submitted. The president-elect, T. C. Chamberlin, was introduced by President pro tempore Grant. B. B. James, of James Millikin University, was appointed treasurer pro tempore in the absence of the Treasurer, J. C. Hessler.

A symposium upon "The Outlook for Young Men in the Various Sciences" was participated in by W. J. McGee, who spoke on "Anthropology," John G. Coulter, of the Illinois State Normal University, on "Opportunities in Botany," W. A. Noyes, of the University of Illinois, on "Openings for Chemists," H. Foster Bain, of the Illinois State Geological Survey, on the "Outlook for Young Men in Geology," Henry

Crew, of Northwestern University, on the "Outlook for Young Men in Physics," and H. V. Neal, of Knox College, on the "Outlook for Young Men in Zoology." Upon motion of W. E. Loomis, of Springfield, it was voted that 500 copies of the proceedings of the Organization Meeting be printed, and that one copy be furnished to each member of the society.

The meeting then adjourned until 8 P.M. In the evening session Dr. W. J. McGee delivered his lecture on the subject "Greater Steps in Human Progress," to an audience of about 600.

The addresses given at the organization meeting were published or reviewed in the first part of Volume I of the Transactions of the Illinois State Academy of Science.

CONSTITUTION AND BY-LAWS OF THE ILLINOIS STATE ACADEMY OF SCIENCE

*Adopted at the Organization Meeting
at Springfield, December 7, 1907*

CONSTITUTION

ARTICLE I. NAME

This Society shall be known as the Illinois Academy of Science.

ARTICLE II. OBJECTS

The objects of the Academy shall be the promotion of scientific research, the diffusion of scientific knowledge and scientific spirit, and the unification of the scientific interests of the State.

ARTICLE III. MEMBERS

The membership of the Academy shall consist of Active Members, Non-resident Members, Corresponding Members, Life Members, and Honorary Members.

Active Members shall be persons who are interested in scientific work and are residents of the State of Illinois. Each active member shall pay an initiation fee of one dollar and an annual assessment of one dollar.

Non-resident Members shall be persons who have been members of the Academy but have removed from the

State. Their duties and privileges shall be the same as those of active members except that they may not hold office.

Corresponding Members shall be such persons actively engaged in scientific research as shall be chosen by the Academy, their duties and privileges to be the same as those of active members, except that they may not hold office and shall be free from all dues.

Life Members shall be active or non-resident members who have paid fees to the amount of twenty dollars. They shall be free from further annual dues.

Honorary Members shall be persons who have rendered distinguished service to science and who are not residents of the State of Illinois. The number shall not exceed twenty at one time. They shall be free from all dues.

For election to any class of membership the candidate's name must be proposed by two members, be approved by a majority of the committee on membership, and receive the assent of three-fourths of the members voting.

All workers in science present at the organization meeting who sign the constitution, upon payment of the initiation fee and their annual dues for 1908 become charter members.

ARTICLE IV. OFFICERS

The Officers of the Academy shall consist of a President, a Vice-President, a Chairman of each section that may be organized, a Secretary, and a Treasurer. These officers shall be chosen by ballot on recommendation of a nominating committee, at an annual meeting, and shall hold office for one year or until their successors qualify.

They shall perform the duties usually pertaining to their respective offices.

It shall be one of the duties of the president to prepare an address which shall be delivered before the Academy at the annual meeting at which his term of office expires.

The secretary shall have charge of all the books, collections, and material property belonging to the Academy.

ARTICLE V. COUNCIL

The Council shall consist of the President, Vice-President, Chairman of each section, Secretary, Treasurer, and the president for the preceding year. To the Council shall be entrusted the management of the affairs of the Academy during the intervals between regular meetings.

ARTICLE VI. STANDING COMMITTEES

The Standing Committees of the Academy shall be a Committee on Publication and a Committee on Membership.

The Committee on Publication shall consist of the President, the Secretary, and a third member chosen annually by the Academy.

The Committee on Membership shall consist of five members chosen annually by the Academy.

ARTICLE VII. MEETINGS

The regular meetings of the Academy shall be held at such time and place as the Council may designate. Special meetings may be called by the Council and shall be called upon written request of twenty members.

ARTICLE VIII. PUBLICATION

The regular publications of the Academy shall include the transactions of the Academy and such papers as are deemed suitable by the Committee on Publication.

All members shall receive gratis the current issues of the Academy.

ARTICLE IX. AFFILIATION

The Academy may enter into such relations of affiliation with other organizations of appropriate character as may be recommended by the Council and be ordered by a three-fourths vote of the members present at any regular meeting.

ARTICLE X. AMENDMENTS

This constitution may be amended by a three-fourths vote of the members present at an annual meeting, provided that notice of the desired change has been sent by the Secretary to all members at least twenty days before such meeting.

BY-LAWS

I. The following shall be the regular order of business.

1. Call to order.
2. Reports of officers.
3. Reports of standing committees.
4. Election of members.
5. Reports of special committees.
6. Appointment of special committees.
7. Unfinished business.
8. New business.
9. Election of officers.
10. Program.
11. Adjournment.

II. No meeting of the Academy shall be held without thirty days' previous notice being sent by the Secretary to all members.

III. Fifteen members shall constitute a quorum of the Academy. A majority of the Council shall constitute a quorum of the Council.

IV. No bill against the Academy shall be paid without an order signed by the President and Secretary.

V. Members who shall allow their dues to remain unpaid for three years, having been annually notified of their arrearage by the Treasurer, shall have their names stricken from the roll.

VI. The Secretary shall have charge of the distribution, sale, and exchange of the published Transactions of the Academy, under such restrictions as may be imposed by the Council.

VII. The presiding officer shall at each annual meeting appoint a committee of three who shall examine and report in writing upon the account of the Treasurer.

VIII. No paper shall be entitled to a place on the program unless the manuscript or an abstract of the same shall have been previously delivered to the Secretary.

IX. These by-laws may be suspended by a three-fourths vote of the members present at any regular meeting.

The first regular annual meeting of the Illinois State Academy of Science was held in the James Millikin University, at Decatur, February 22, 1908 (8).

The meeting was called to order by the President of the Academy, Dr. T. C. Chamberlin, of the University of Chicago, at 10 A.M. There were 96 persons present. The Treasurer of the Academy, Dr. J. C. Hessler, of James Millikin University, made an announcement concerning the payment of dues, and also one concerning the plans for the meeting. Prof. S. A. Forbes, of the University of Illinois, Chairman of the Committee on Membership, reported a list of names of persons properly nominated and recommended for membership. These persons were voted into the organization.

The following papers were read in this session:

"Biotic Zones and Districts of Illinois"—Charles A. Hart (Ento-

mology), of the Illinois State Laboratory of Natural History, University of Illinois.

"A Case of Phosphorescence as a Mating Adaptation"—T. W. Galloway (Zoology), of James Millikin University.

"Some Problems Connected With the Coals of Illinois"—S. W. Parr (Chemistry), of the University of Illinois.

"The Desirability of a Systematic Ecological Survey from the Standpoint of Plant and Animal Associations"—H. C. Cowles (Botany), of the University of Chicago.

"A State Ecological Survey"—E. N. Transeau (Botany), of the Eastern State Normal School, at Charleston.

"A Virgin Prairie in Illinois"—H. A. Gleason (Botany) of the University of Illinois.

"Occurrence of Oil and Gas in Eastern Illinois"—H. Foster Bain, of Illinois State Geological Survey.

"Illinois Trees"—T. J. Burrill (Botany), of the University of Illinois.

"Plant Pathology in Relation to Other Sciences"—Ernest S. Reynolds (Botany), of the University of Illinois.

President Chamberlin spoke on the desirability of affiliating with other scientific societies in the State. He gave an account of the discussion at the meeting of the Council, held in Chicago, December 30. He invited those interested in considering plans to meet at 1:45 P.M., before the opening of the afternoon session.

Professor Forbes stated that as a result of the work of many years, a great mass of ecological material had been collected by the Natural History Survey, named and labeled, and that this material was at the disposal of students. He spoke of his gratifi-

cation because of the increasing enthusiasm for the work.

A. R. Crook, Director of the State Museum, expressed the hope that the Academy would aid the State Museum in securing materials to illustrate the mineral resources of every section of the State, and the relation of animals and plants to each other and to their environment in various parts of the State. C. C. Adams, of the University of Chicago, suggested that a definite work be taken up, so that a report could be made on some locality.

The meeting was then adjourned until 2:00 P.M.

In the afternoon session, which began at 2:25 P.M., the following papers were presented:

"Relation of the State Academy to the Natural History Survey of the Chicago Academy of Sciences"—Frank C. Baker, of the Chicago Academy of Sciences.

"Farm Water Supplies"—Edward Bartow (Chemistry), of the University of Illinois.

President Chamberlin made an announcement concerning the publication of the Transactions, requesting all who were taking part in the program to send copies or abstracts of their papers to the secretary for publication. He expressed the hope that means for publication would be provided by the State Legislature as was customary in other states.

By the passage of a motion offered by H. F. Bain, of the State Geological Survey, the President of the Academy was instructed to appoint a committee of five on the collection of drill records.

A motion, made by S. A. Forbes, was passed authorizing scientific organizations that enter into relations of affiliation with the Academy each to appoint one of its members

to be a member of the Council of the Academy, who should have the right to vote on matters specifically related to the terms of affiliation, but not on other matters. On motion of H. F. Bain, it was voted to invite appropriate organizations each to appoint some member of the organization to represent it on the Academy Council while an ecological survey of the State was being made.

A symposium on "The Atmosphere" was participated in by T. C. Chamberlin (Geology), of the University of Chicago; Albert P. Carman (Physics), of the University of Illinois; H. C. Cowles (Botany), of the University of Chicago; John M. Coulter (Botany), of the University of Chicago; Wm. A. Noyes (Chemistry), of the University of Illinois; Charles E. M. Fischer, of the College of Physicians and Surgeons of the University of Illinois; and H. Foster Bain, of the State Geological Survey.

The meeting was then adjourned.

At the evening session, beginning at eight o'clock, A. A. Michelson, of the University of Chicago, lectured on the subject, "Recent Advances in Spectroscopy."

Abstracts of the papers read at the first annual meeting of the Academy, and the address of Dr. A. A. Michelson in the evening were published in the Transactions of the Illinois State Academy of Science, Volume I, 1908.

The Council meeting of the Illinois Academy of Science was held in Chicago, in the Auditorium Annex, Friday, May 8, 1908, beginning at 2:30 P.M.

On motion of Professor Crew, of Northwestern University, the following committee upon the ecological survey of the State of Illinois was appointed: S. A. Forbes, of the

University of Illinois, Chairman; F. C. Baker, of the Chicago Academy of Sciences; H. C. Cowles, of the University of Chicago; H. A. Gleason, of the University of Illinois; and T. L. Hankinson, of the Eastern Illinois State Normal.

The Council voted to publish the "Transactions" of the Academy, which should include the transactions of the organization meeting held December 7, 1907, at Springfield, and the first regular meeting held in Decatur, February 22, 1908, the Constitution of the Academy, and the list of members.

The Council decided to hold the next meeting of the Academy at Springfield, February 20, 1909. It was decided that the program of this meeting should consist of a business meeting and the reading of papers in the morning, a symposium on the scientific activities of the State, their history, methods, and purposes, in the afternoon, and an address by the retiring president in the evening.

The Council then adjourned.

The second annual meeting of the Illinois State Academy of Science was held in Springfield in the Old Supreme Court Room in the State House, February 20, 1909 (9).

The meeting of the Academy was called to order by Vice-President Henry Crew at 10:00 A.M. The minutes of the last meeting were read by Secretary Crook, and approved. The Treasurer, J. C. Hessler, presented his report. This was laid on the Chairman's table until an Auditing Committee could be appointed to examine it. Secretary Crook requested that the members send in their correct addresses, degrees, and the names of the subjects in which they are interested, in order that the records of the Academy might be as complete as possible.

Professor S. A. Forbes, Chairman of the Membership Committee, then presented the report of his committee. This was approved, and the Secretary was instructed to cast the ballot of the Academy for those nominated for membership.

Professor S. A. Forbes, Chairman of the Committee on Ecological Survey, made the following report on the progress of this work.

One of the first tasks of an ecological survey is the recognition and description of the plant and animal associations represented. This may be reached by the detailed study and mapping of limited districts chosen from various parts of the state and representative of much larger areas. The results of this detailed work will give by comparison a general idea of the structure of the associations throughout the state. It may be supplemented by a more general study of the entire state, showing the distribution of such association groups as forest and prairie, sand regions, cypress swamps, etc. Both lines of work lead to the production of an ecological map of the state, showing the distribution of all the associations represented. Survey work of this nature will give appreciable results in a comparatively short time, will indicate the general nature of the survey, will serve as a pattern to amateurs, will open a large field for the use of teachers, and will be a foundation for subsequent investigation. Work on other phases of ecology, such as the correlation of associations with environmental factors or their interrelations with each other, will necessarily accompany the cartographic work to some extent.

Members of the committee reported the following field work under way:

F. C. Baker, ecological study and mapping of limited area at Shermerville, with especial reference to Mollusca.

H. C. Cowles, mapping the plant associations of portions of the South Chicago area.

H. A. Gleason, a study of the vegetation of inland sand deposits.

T. L. Hankinson, the breeding habits of fish near Charleston, correlated with environmental conditions.

V. E. Shelford, ponds in the dune region at the head of Lake Michigan.

E. N. Transeau, plant associations in the vicinity of Charleston; studies of evaporation.

After a discussion of the need of state aid for the survey, it was formally recommended by the committee that,

instead of a separate organization, the Academy cooperate with the State Laboratory of Natural History in securing funds and in carrying out the work of the proposed ecological survey. The State Laboratory has been engaged in this work for years, and is now willing to aid in the survey and to bring together in a comprehensive plan the ecological results of the work of both institutions and individuals.

The committee especially wishes to bring into its membership all persons prepared and disposed to do active work on the ecology of any part of the state.

The report was approved; and the committee was continued for another year.

Chairman Crew then appointed the following committees:

Committee on Nominations—W. F. M. Goss, University of Illinois; F. L. Charles, University of Illinois; S. W. Parr, University of Illinois; T. W. Galloway, James Millikin University.

Committee to Audit the Treasurer's Report—F. R. Watson, University of Illinois; H. O. Barnes, High School, Springfield; R. O. Graham, Illinois Wesleyan University; T. W. Galloway.

The Secretary then stated that a committee to collect drill records was to have been appointed the preceding year. He suggested that this committee be appointed at this time, or a little later in the day. Mr. F. W. De Wolf, Acting Director of the State Geological Survey, suggested Professor J. A. Udden for appointment on this committee, stating that "a great deal of the work is now in his hands." Chairman Crew suggested that, because of the import-

ance of the Committee and the need of further consideration, the appointment of the Committee be postponed until later in the day. This suggestion was accepted.

After some discussion of the desirability of having sectional meetings, the following motion was passed: "That it is the sense of the Academy that we should not resolve our meetings into sectional meetings at this time."

After the conclusion of the business meeting Isabel S. Smith, of Illinois College, Jacksonville, presented a paper on the subject, "Illinois Trees."

In leading the discussion on this paper, Professor Forbes said:

I think the reason the pioneers settled along the streams was because of the shelter, and because most of the earliest settlers came from forest countries. We see, in reading the records of the first explorers, that there was a general prejudice against the prairies, as being bare and lonesome, and practically worthless for agriculture.

Dr. Crook said:

I might say that at the last session a law was passed by the State Legislature designating the 'native oak' as the symbolic tree of this State. If the law-makers had consulted with some one like Miss Smith they might have found out that there are sixteen varieties of native oaks in this State—another illustration of the fact that our laws would often be better if they were framed by men who availed themselves of the knowledge of experts.

The following papers were then presented without discussion:

"Some Botanical Features of Illinois Sand Dunes"—H. A. Gleason (Botany), University of Illinois.

"Preliminary Report of Observations upon a Robin's Nest"—F. L. Charles (Zoology and Botany), University of Illinois.

"Cliff Flora of Jo Daviess County"—H. S. Pepoon (Zoology and Botany), Lakeview High School, Chicago. Read by title only.

"The Clay Seams of No. 5 Coal Bed in the Springfield Quadrangle"—T. E. Savage (Stratigraphic Geology), University of Illinois.

The meeting then adjourned until 2:00 P.M.

The Academy was called to order at 2:15 P.M. by Chairman Crew. S. A. Forbes, Chairman of the Membership Committee, made a report on additional names of persons proposed for membership in the Academy. The number of new members added at both the morning and afternoon sessions was 42.

The following papers were then presented:

"Hardness of Illinois Municipal Water Supplies"—Edward Bartow (Chemistry), University of Illinois.

"Electrolytic Separation of Metals by Graded Electromotive Forces"—Albert Carver (Physics), Springfield High School.

After the presentation of these papers, Chairman Crew called for reports of committees.

F. R. Watson, Chairman of the Auditing Committee, stated that the Treasurer's report was found to be correct. The Treasurer's report as presented at the morning session was then adopted unanimously.

On making the report of the Committee on Nominations, W. F. M. Goss, Chairman of the Committee, expressed the appreciation of the committee for the efficient work of Vice-President Henry Crew in serving as Chairman of the meeting of the Academy. He stated that Dr. Crew had positively declined to accept the nomination for President of the Academy. He then presented the names of the following nominees for the ensuing year:

For President of the Academy—S. A. Forbes, University of Illinois.

For Vice-President — John M. Coulter, University of Chicago.

For Secretary—A. R. Crook, Director of the State Museum, Springfield.

For Treasurer—J. C. Hessler, James Millikin University.

For the third member of the Publications Committee—H. F. Bain, State Geological Survey.

For Membership Committee—T. W. Galloway, James Millikin University, Chairman; F. L. Charles, University of Illinois; U. S. Grant, Northwestern University; T. L. Hankinson, Eastern Illinois State Normal; S. W. Williston, University of Chicago.

The report of the Committee on Nominations was adopted unanimously, and the ballot of the Academy was cast for the nominees by the Chair.

Chairman Crew then announced the following Committee on Deep Drillings: J. A. Udden, of Augustana College; U. S. Grant, of Northwestern University; and F. W. De Wolf, of the State Geological Survey.

In a symposium on "The Scientific Activities of the State, Their History, Method and Purpose," the following papers were presented:

"State Laboratory of Natural History and the State Entomologist's Office"—S. A. Forbes.

"State Water Survey"—Edward Bartow.

"State Highway Commission"—A. N. Johnson.

"State Geological Survey"—F. W. De Wolf.

"State Museum of Natural History"—A. R. Crook.

After some discussion, a motion was passed unanimously to appoint a committee to secure funds from the State Legislature for the publi-

cation of the Transactions of the Academy.

A motion was passed authorizing the appointment of a committee to make a recommendation to be presented to the State Legislature, urging the erection at Springfield of a building to contain the State Museum. Chairman Crew appointed the following committee to take charge of whatever legislative recommendations the Academy thought wise: S. A. Forbes, John M. Coulter, A. R. Crook, and J. C. Hessler. Forbes, Crook, and Hessler of this committee met March 1, 1909, and adopted a report and resolution strongly urging that the State Legislature should take steps to provide an adequate building for the State Museum, either alone or with other appropriate State departments.

The afternoon session of the Academy adjourned until 6:00 P.M., when a banquet was given to the members of the Academy by the Chamber of Commerce of Springfield, in the Y. M. C. A. Building. At the banquet the following addresses were given by members of the Academy:

"Botany and Commerce"—Wm. Trelease (Botany), Missouri Botanical Garden, St. Louis.

"Science and Transportation"—W. F. M. Goss (Steam Engineering), University of Illinois.

"Illinois With or Without Science"—R. O. Graham (Chemistry), Illinois Wesleyan University, Bloomington.

"The Relation of Sciences to Each Other"—Henry Crew (Physics), Northwestern University.

All of the papers presented at this meeting of the Academy and the addresses at the banquet were published in the Transactions of the Illinois

State Academy of Science, Volume II, 1909.

The Council meeting of the Academy was held in the Botany Building of the University of Chicago, November 1, 1909. Those present at the meeting were S. A. Forbes, John M. Coulter, A. R. Crook, and J. C. Hessler.

The following decisions were made concerning the next annual meeting of the Academy. The cordial invitation of the University of Illinois to hold the meeting at Urbana was accepted. It was decided that the meeting would begin at 2:00 P.M. on Friday, February 18, 1910, and close Saturday afternoon, February 19. The Council planned for the program to consist of a business meet-

ing, presentation of papers, address by the retiring president, and a symposium on "The Relation of Pure and Applied Science (A) to the Progress of Knowledge and to Practical Affairs, and (B) to Secondary Education." The symposium was to be participated in by five speakers chosen by the Council to present the subject from the point of view of the biologist, the chemist, and the physicist.

Isabel S. Smith, of Illinois College, Jacksonville, was appointed third member of the Publication Committee to succeed Dr. H. Foster Bain, elected at the last meeting of the Academy, who had resigned because of his removal to California.

The meeting of the Council was then adjourned.

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