

One hundred and thirty sixth meeting Jan 14-1903.

In the assembly hall of the Cosmos Club
President Hayes in the Chair

40 persons present.

The minutes of the 135th meeting were read and approved.

The chair announced the following Committee on Communications for the ensuing year, Messrs
G.O. Smith, T. Wayland Vaughan, J. W. Boutwell.

Regular Program

Dr Arthur C. Spencer

(1) An instance of replacement of metal by
metallic copper. Discussed by Dr. Cross
Mr. Weed, Mr. Stokes & Dr. Hayes.

(2) Mr. S. F. Cummons reviewed the history of the
systematic study of ore deposits in America.

(3) Mr. W. H. Weed presented a genetic classification
of ore deposits. Formal discussion

followed by (4) Mr. J. E. Spurr & (5) Mr. W. Lindgren

The hour of adjournment having arrived
the remainder of the program was omitted

W. C. Mendenhall
Secret

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One hundred and thirty seventh meeting, Jan 28-1903.

In the Assembly Hall of the Cosmos Club.

President Hayes in the Chair

45 Persons Present.

The minutes of the one hundred and thirty sixth meeting were read and approved.

Under the head of Informal Communications, Mr E. O. Ulrich exhibited a specimen of columnar sandstone and described its occurrence and association. Discussion by Mr Emmons.

Regular Program.

Mr S. F. Emmons - The Drainage of the Valley of Mexico

Illustrated by Lantern Slides

Mr. Waldemar Lindgren - Notes on the Geology of Koolokai, Hawaiian Islands.

Illustrated by Lantern Slides.

Mr Lindgren's Paper was discussed by Messrs Stone, Cross, Hayes, and Mendenhall.

at 10 P.M. the Society adjourned

W. C. Mendenhall

Secretary.

One hundred and thirty eighth meeting, Feb 11-1903.

In the Assembly Hall of the Cosmos Club.

President Hayes in the Chair

27 Persons Present.

The minutes of the one hundred and thirty seventh meeting were read and approved. There being no informal communication the following papers, constituting the regular program were read.

Mr. W. C. Mendenhall - Chitina Copper Deposits Alaska.

Discussed by Messrs Spencer, Lindgren & Brooks.

Mr. David White - An anthracite coal field $3\frac{1}{2}$ towns west of Washington, discussed by Messrs Campbell, Willis & Hayes.

Mr. Geo. W. Stone - The Structure of a portion of Smith Mtn., Penna, discussed by Mr Campbell & Mr. Willis

Mr. Geo. Otis Smith - Abandoned Stream gaps in Northern Washington - Discussed by Messrs Stone, Colkins, Willis, Lindgren, Campbell & Fuller.

at 10 P.M. the Society adjourned

W. C. Mendenhall

Secretary.

One hundred and thirty-ninth meeting Feb 25-1903

In the Assembly Hall of the Cosmos Club.

President Hayes in the chair

60 persons present

The minutes of the one hundred thirty eighth meeting was read & approved. There being no informal communications, the Discussion of the Genetic Classification of Ore deposits, a continuation of the program of Jan 14th was opened by Mr. Ransome in the absence of Mr. Emmons.

The formal discussion thus begun, was continued by Messrs Emmons, Kemp, Rickard and Van Hise. At its close Messrs Wood, Kemp, Rickard, Van Hise, Lindgren & Cross took part in the informal discussion.

At 10.30 P.M. the Society adjourned.

W. C. Mendenhall

Secretary.

One hundred and fortieth meeting March 11-1903.

In the Assembly Hall of the Cosmos Club.

President Hayes in the chair.

40 persons present.

The minutes of the one hundred and thirty ninth meeting was read & approved. The secretary announced the election to ^{corresponding} ~~active~~ membership of Mr. Evland of Baltimore Md.

Under the head of informal communications, Mr. Geo. Otis Smith presented a comparison of the Eocene sections, east west of the Cascade axis in Washington.

The following papers constituting the regular program were then read.

Mr. A. J. Collier - Coal bearing Series of the Yukon.

Discussed by Messrs. Smith, Eldredge, White, Smith, Brooks & Stanton.

Mr. F. C. Calkins - Soils of the wheat lands of Washington.

Discussed by Messrs. Lindgren, Smith & Campbell.

Mr. H. S. Washington, - Calculation of Centrifugal forces in the Quantitative Classification of Igneous Rocks.

Mr. C. B. Matthews - Practical workings of the

Quantitative Classification.

The discussion of the last two papers was postponed to a future meeting.

W. C. Mendenhall

Secretary.

One hundred and forty-first meeting, March 25-1903.

In the Assembly Hall of the Cosmos Club

Pres. Hayes in the chair

42 persons present.

The minutes of the one hundred and fortieth meeting were read and approved.

The Secretary announced the election of Mr. H. S. Gale to active membership by the Council.

Regular Program.

Mr. G. R. Gilbert - The Statics of a Tidal Glacier.
Discussed by Messrs. Campbell, Willis, Merrill, Stose, Fuller and Hayes.

Dr. Whitman Cross: - Observations on Hawaiian Geology.

Discussed by Major Dutton.

Mr. Bailey Willis: - Post-Tertiary deformation of the Cascade Range.

Discussed by Messrs. Smith, Diller and Lindgren.

At 10.05 P. M. the Society adjourned.

W. C. Mendenhall

Secretary

One hundred and forty-second meeting, April 8-1903.

In the Assembly Hall of the Cosmos Club

Pres. Hayes in the chair

32 persons present.

The minutes of the one hundred and forty-first meeting were read and approved. The election to active membership in the Society of Frederick G. Colapp was announced.

Regular Program

Mr. J. E. Spurr: - The Relation of Faults to Topography.
Discussed by Geo. J. Adams and F. S. Ransome.

Mr. W. Lindgren: - Metallic Sulphides from Steamboat Springs, Nevada, discussed by Mr. Wood.

Mr. Geo. J. Adams: - Origin of bedded breccias in northern Arkansas. Discussed by Messrs. Emmons, Tuff, Hayes, Dale & Bam.

Mr. E. C. Eckel: - Dahlonega Mining District Georgia. Discussed by Mr. Hayes & Mr. Lindgren.

At 10 P. M. the Society adjourned.

W. C. Mendenhall

Secretary

One hundred and forty-third meeting - April 22 - 1903.

In the Assembly Hall of the Cosmos Club
Vice-Pres. Lindgren in the chair.

30 persons present

The minutes of the one hundred and forty second meeting were read and approved.

The election by the council of Mr. Harry Foster Bain, to active membership in the society, was announced.

Informal Communications. Dr. Day described an occurrence of tin ore, near Kings mtn, N.C.

Regular Program.

Dr. D. T. Day: Experiments on the diffusion of crude Petroleum through Fuller's Earth.

Dr. Day's paper was followed by a formal discussion in which Messrs. Eldredge, Hayes, Hill, Adams, Rents, & Fuller participated. In the succeeding general discussion, Messrs. Stone, Rents, David White, Eldredge & Day took part.

At 10 P. M. the Society adjourned.

W. C. Mendenhall
Secretary

One hundred and forty-fourth meeting, May 6 - 1903, ~~at~~

In the Assembly Hall of the Cosmos Club.

Pres. Hayes in the chair

28 persons present.

The minutes of the one hundred and forty third meeting were read and approved.

The Council announced the election of Mr Geo. B. Hollister to active membership in the Society.

Informal Communications.

Mr. J. A. Jeff: Some structures in the Arbuckle mtn Region. Discussed by Mr. Willis.

Regular Program

Mr. S. L. Ward: Correlation of the Potomac Formation in Maryland and Virginia.

Discussed by Prof Uhler, Mr. Bibbins & Mr. David White

Mr. W. R. Campbell: Pocahontas in the Allegheny Valley.

Mr. David White: Age of the Mercer Group.

The hour of ten o'clock having arrived the Society adjourned.

W. C. Mendenhall
Secretary

One hundred and forty-fifth meeting, May 13-1903.
In the Assembly Hall of the Cosmos Club.
Pres. Hayes in the chair.

26 persons present.

This meeting was devoted to a continuation of the discussion of the Quantitative Classification of Igneous Rocks, ~~continued~~ ^{begun} on March 11th at the 140th meeting.

It was opened by Dr. Cross, who read ^{and discussed} a few of the comments received from various petrographers in America and abroad. Several other members of the society spoke informally, giving their experience with the new system. Dr. Washington, Prof. Matthews, Mr. Riel, Mr. Smith & Mr. Ransome were among the number.

At 10 P.M. the society adjourned.

W. C. Mendenhall
Secretary

One hundred and forty-sixth Meeting
In Assembly Hall Cosmos Club.
Nov 25-1903.

President Hayes in the chair
43 persons present. The Record book of the Society being temporarily misplaced the reading of the minutes of the 145th meeting were dispensed with.

The chair announced the election of Dr. Henry W. Hens of the Geological Survey of Canada to corresponding membership.

The chair also announced that ~~election~~ the Society had received an invitation to attend the meeting of the annual address of the retiring president, Prof. J. Howard Gore of the Philosophical Society of Washington at the Cosmos Club.
Dec 5th.

There being no informal communication the regular programme was then taken up.

Mr. S. F. Grunow. United Session of the
International Congress of Geologists
at Vienna

Mr. A. C. Spencer. The Alaska Teacher
Union.

Discussed by Messrs. Richard & Brewster
Messrs. T. W. Stanton and J. B. Hatcher.

The stratigraphic position of the
Fulda River beds.

Discussed by Adams, Eldridge
& Coors.

At 10 P. M. the Society adjourned

Alfred A. Brewster
Secretary.

147th Meeting Assembly Hall Cosmos Club

Dec 9 - 1903

President Hayes in the Chair 37
persons present.

The minutes of the 146th Meeting
were read and approved.

The chair announced the election
of Fred. A. Moffit, F. L. Hess,

Ralph Arnold, L. C. Gration, and
F. L. Charles, W. Wright, to active
membership.

~~Meeting open~~
The meeting being in informal communi-
cations the regular program was
then taken up as follows

Mr. David White. Notes on the Appalachians
Pottsville

Discussed by Messrs. W. M. Campbell.

Mr. G. H. Girty. A comparison of some
Carboniferous sections in Pennsylvania &
Ohio

Discussed by Messrs. Vaughan, Bain
White, Potts & Campbell.

Mr. F. H. Bain. Fluorapatite deposits
of Southern Illinois.

Discussed by Messrs. Diller, Van Hise, Adams,
Hayes and Spencer.

At 10 P. M. the Society adjourned.
Alfred A. Brewster
Secretary.

(11th Annual)

The 148th Meeting Assembly Hall Cosmos Club, Dec 16/03

Vice president Merrill in chair and 54 persons present.

The minutes of the 147th Meeting were read and approved. The chair announced the election of W. T. Griswold to active membership and the transfer of ^{Mr.} A. Johnson from corresponding to active membership.

Regular Program

Presidential address by Mr. C. Willard Hayes "Should there be a Federal Department of Mines."

At the conclusion of the address on motion of Mr. Campbell seconded by Mr. Bain, a vote of thanks was extended to Mr. Hayes for his exceedingly interesting address paper.

The chair then announced a recess of ten minutes after which the business of the annual meeting would be transacted.

At 8:30 ~~the~~ President Hayes called the Society to order. There were 34 members ^{present}. The minutes of the 10th Annual Meeting were read and approved.

The Annual Report of the secretary was presented and on motion of Mr. White, duly seconded, was accepted.

The Treasurer then submitted his annual report which was followed by the report of the Auditing Committee consisting of Messrs. Fuller Butts and Prindle. On motion of Mr. Diller duly seconded the report of the Auditing Committee was accepted and the Treasurer's accounts there by approved.

Mr. White then moved that the reading of the names of the active members who were qualified to vote for officers of the Society be dispensed with. This

was seconded and carried by unanimous vote.

The chair then announced Messrs Wesley and Adams as tellers and the society proceeded to the election of President which resulted in the choice Mr. C. Willard Hayes. This was followed by the election of Messrs. Merrill and Lindgren as Vice Presidents.

The chair then appointed Messrs. Schrader and Chapman as additional tellers.

Dr. David T. Day then made a motion that the regular order of procedure in the case of voting for Treasurer be set aside. This motion being seconded and carried Dr. Day moved that the Secretary be directed to cast the ballot of the Society for Mr. Geo. W. Stone as Treasurer. This motion was seconded and carried unanimously and the chair announced the election of Mr. Stone as Treasurer.

The balloting for secretaries was then begun and resulted in the election of Messrs. Walter C. Mendenhall and Alfred A. Brooks, in spite of the protest of the latter.

The following members of the council at large were then elected.

Messrs. David White, T. W. Stanton, T. Wayland Vaughan, M. R. Campbell and H. L. Ransom.

This was followed by a ballot for a nominee to represent the society in the Washington Academy of Sciences which resulted in the choice of Mr. G. H. Gilbert.

~~A~~ rough draft of the minutes was then read. At 10 P.M. the Society adjourned.
Alfred A. Brooks Secretary.