Fiftieth Meeting, January 13, 1877.

In the Assembly Hall of Cosmopolitan Club. President Arnold Hague in the chair.

32 persons present.

The election of the corresponding members was announced.

The business was announced by the Acting President, Mr. D. O. Whiticar was named.

The minutes of the 51st, 52nd, and 53rd meetings were read and approved.

Informal Communications:

1. Dr. Gilbert exhibited specimens of Travancore sandstone from little showing rectangular markings supposed to be due to the crystallization of salt or some other mineral.

2. Prof. Walcott described the occurrence of gold ore in the Silver Peak district of Nevada, discovered by Mr. Emmerson.

Regular program:

1. Arnold Hague, description of the Yellowstone Park Tetr.

Vice-President Bidwell was called to the chair during the reading of this paper. Discussed by Messrs. Gilbert, Walcott and Whiting.


Discussion by Messrs. Emmerson and Gilbert.


Discussed by Messrs. Emmerson, Bidwell and Smith.

At 10 o'clock the Society adjourned.

T. W. Sturtevant
Secretary.
Fifty-seventh Meeting January 27, 1877

In the Assembly Hall, Montana Club.
President Page in the Chair.

35 persons present.

The minutes of the 56th meeting were read and approved.

The election of two persons to active membership was announced.

Informal Communications:
C. W. Hayes. Memorial of J. E. McFarland, deceased.

Regular Program:
1. C. W. Purinton. The arrangement of trees in a basin in the San Juan Mountains, Colorado.
   Discussion by M. N. Lane, G. C. Hovey, Willis, and Cummins.
   Discussion by Mr. Devens.
   Discussion by Messrs. Cummins, Campbell, and others.

At 10 p.m. the meeting adjourned.

T. W. Page
Secretary.
Fifty eighth Meeting, February 10, 1877.

Of the Assembly Hall of Esoteric Club.

President Hague in the chair.

26 persons present.

The minutes of the fifty seventh meeting were read and approved.

A communication from the Secretary of the Chemical Society was read announcing that programs of the meetings of that body would be sent to each member of the botanical society as requested there.

An election to corresponding membership was announced.

Communications, Regular Program:

   Discussion by Mr. Gilbert.

2. Medcalf and Bingham. The granitic rocks of the Sierra Nevada.
   Discussion by Messrs. Diller, Corte, Gilbert, Hague.

At 9:20 P.M. the society adjourned.

T. W. Stanton
Secretary.
Fifty-Ninth Meeting, February 24, 1897
At the Assembly Hall of Cornell Club
President Hague in the chair.
27 persons present.

The minutes of the 57th meeting were read and approved.

Communications. Regular Program.
   Discussion by Wm. W. and Clyde Campbell.

2. W.H. Barton. The thermal dome from deep wells
   in the Dakota.
   The paper was discussed by Mr. Gilbert.


At 9:40 P.M. the Society adjourned.

T.W. Stanton
Secretary
Sixtieth Meeting, March 10, 1877.

In the Assembly Hall of Cosmos Club,
Vice President Dilbit in the chair,
29 persons present.

The Minutes of the 59th meeting were read and approved.

Communications:

Regular Program:

1. Dr. W. Fariandes: Oscillations of the Coast of California during the Pliocene and Pleistocene (read by Mr. Diller). Mr. Diller in the chair during the presentation.

Discussion by Messrs. Turner and Lindgren.


4. T. Wayland Vaughan: Geological notes on Kansas, Oklahoma, and Indian Territory. Discussion by Mr. Ward.

At 10:10 P.M. the Society adjourned.

T. M. Stanton
Secretary
Sixty-first Meeting, March 24, 1897.

In the Assembly Hall of Comstock Club.

President Hager in the Chair.

33 persons present.

The Minutes of the 60th meeting were read and approved.

Informal Communication:
2. E.W. Parry, Jr. Field inspection in the southwest corner of the Fall River (Colo.) quadrangle. Discussed by Mr. Turney.

Regular Program:

2. A.H. Gilbert. The Whirlpool at Sand's Channel, Magore.

3. I. Wayland Vaughan. Biological occurrence of the intrusive rocks of the Humboldt quadrangle. Discussion by Mr. Hill.


... At 10 P.M. the Society adjourned.

T.W. Stanton
Secretary.
Sixty-second Meeting, April 14, 1897.

In the Assembly Hall of Croesus Club.
President Rague in the Chair.
26 persons present.

The minutes of the 61st meeting were read and approved.

Informal Communications.
H. W. Turner presented some additional notes on the question as to moraine material in the anorthitic tuff series of the Sierra Nevada and quoted notes by others on the same subject from Willard B. Johnson.

Regular Program:
   Discussion by Messrs. Turner, Billis, Wind, Rague and Hill.

2. C. W. Hoge. The Zadolin Foliis.

   Discussion by Mr. Wind.

4. W. H. Wind. Lava beds in inclined strata.
   Discussion by Messrs. Billis, Willis, Turner and Hoge.

At 10 P.M. the Society adjourned.

T. W. Stanton
Secretary.
Diel, third meeting, April 28, 1877,

in the assembly hall of the Cosmos Club.

President Elsheu in the chair.

27 persons present.

The minutes of the 62d meeting were read
and approved.

Informal communications:
1. Mr. P. Campbell. The alleged occurrence
of coal in western North Carolina.
2. J.C. Spencer. Explanation of a peculiar
feature in the structure of Massachusetts
Mountain.

Discussed by O. M. Hayes and M.R. Campbell.

Regular Program:
1. First Need. The Judith Mountains.
2. J. D. Prezios. Various rocks of the
Judith Mountains.

Discussed by Thaddeus Crosse.
3. D. O. Smith. Notes on the geology of
Mount Rainier.

Discussed by J. F. Emmans and B. Miles.
4. Waldemar Lindgren. The Tertiary sediments
of a portion of the lower Snake River
basin, Idaho.

At 10 P.M. the Society adjourned.

O. M. Hayes, Sec.

Lecture by Sir Archibald Geikie.

On Wednesday evening, May 5, 1877 a lecture
was delivered by Sir Archibald Geikie, Director
General of the Geological Survey of Great Britain and India.

Subject: Notes for a comparison between the Tertiary
Volcanic succession in Northwestern Europe and in
Western America.

The lecture was given at Building Exchange Hall
under the auspices of the Geological Society.

Two hundred members, men and women guests were
present.
Sixty-fourth Meeting, May 6, 1877

in the Trustees' room, Columbia University
President Hague in the chair.
26 persons present.

This was a special meeting called by the Council
for the purpose of receiving a paper by
Mr. C. R. Van Hise. Shortening and elongation of
the entire part of the earth.
The subject was discussed by Messrs. Kieh, Van Hise, Hayes, and Reubel.

At 10 P.M. the meeting adjourned

T. W. Stanton
Secy.
Sixty-fifth Meeting, May 12, 1897

To the Assembly Hall of the Cosmos Club,

President Hague in the Chair.

22 persons present.

The minutes of the 63rd and 64th meetings were read off.

The President suggested that the meeting address

by Dr. Archibald Geikie should also be read with

the minutes of the society [see page 64].

Informed Communications

1. C. W. Hayes: Some features of Appalachian structure
   as identified by the analysis near Hancock, Md.


3. The President exhibited a photograph of Sir Archibald
   Geikie and announced that copies are obtainable
   by members of the society.

Regular Program

1. C. W. Paisley: The arc definite of the
   Telluride quadrangle, Colorado.

2. S. F. Wesson: Physiography of the west coast
   of Peru.

At 10 P.M. the society adjourned.

D. W. Stanton
Secretary.
Sixty-sixth Meeting, May 2, 1897.
In the assembly hall of the Cosmos Club.
President Haxie in the chair.
31 persons present.

The minutes of the 65th meeting were read and approved.

Informal Communications:
1. David White described some staked pebbles in Carboniferous conglomerate from Pennsylvania.
2. W. E. Campbell described similar staked pebbles from Big Stone Gap, Virginia.

Regular Program:
2. R. J. Hill. Types of West Indian geology (illustrated by lantern slides).

At 9:45 P.M. the society adjourned.

T. W. Stanton
Secretary.
Sixty-sixth Meeting, November 10, 1877
At the assembly hall of Cosmos Club.
President Haynes in the chair.
24 persons present.

The minutes of the 66th meeting were read and after some discussion.

Informal Communications:
David White exhibited specimens of plant bearing shale from the Carboniferous of Asia Minor showing a considerable number of species that occur associated in the same way in the lower productive coal measures of the United States.

Regular Program:
1. F.T. Hill. The geological sequence in Jamaica.
   Discussed by Mr. R. Campbell.

   Discussed by R. T. Mill.

At 10 P.M. the Society adjourned.

T. W. Stanton
Treasur.
Sixty-eighth Meeting, November 24, 1897.

In the Assembly Hall 2 Cosmoe Club.
President Hagye in the Chair.
26 persons present.

The minutes of the 67th Meeting were read and approved.

Informal Communications.
E. Z. Becker spoke on a profound change of nomenclature in the classification of rocks and minerals, suggesting the terms 'silicic' and 'micasilic' instead of acid and basic.

Regular Program:
   Discussion by Messrs. Gilbert, Hagye and Becker.

2. J. D. Diller. The origin of Coosaw Swale, a valley in Western Oregon.
   Discussion by Messrs. Gilbert and Campbell.

3. G. S. Gilbert. An attempt to estimate the relative and absolute quantities of the principal sedimentary rocks.

At 9:55 P.M. the meeting adjourned.

T. W. Stanton
Secretary
Sixty Ninth Meeting. December 8, 1897.

For the Assembly Hall of Cosmos Club.

Vice-President Wilke in the Chair.

31 persons present.

The minutes of the 68th Meeting were read and approved.

The election of one active and five corresponding members was announced.

Informal Communications:

1. A. E. Wealst spoke of the search for missing post stones of the Palaearctic section in California during the last field season. In the Puya Range the lower Canistro, Puya and Brevior (Mexico), and Salvia (Mexico) are now known to be represented. Discussed by Mr. Wilke.

2. E. H. Hillard proposed a new term for discontinuous arches. The word breccia was suggested for use both as a noun and an adjective in speaking of the material of the Archean. Remarks were made by Messrs. Wilke and Powell.

Regular Program:

1. J. W. Powell. An hypothesis to account for the movement in the crust of the Earth.

Discussion by Messrs. Hillard, Wilke and Panzer.

2. E. F. Commons. The recent International Congress of Geologists at St. Petersburg.

At 10 P.M. the Society adjourned.

T. W. Stanton,
Secretary.
Seventeenth Meeting, December 27, 1877.
Fifth annual meeting, in the Assembly Hall of Cosmos Club.
President Hayne in the Chair.
33 personal present. 26 members voting.

The minutes of the 69th meeting were read and approved.

An election to active membership was announced.

Business of the Annual Meeting.

The minutes of the fourth annual meeting were read and approved.

The Annual Report of the Secretary for the year 1877 was read and accepted.

The Treasurer then read his annual Report for 1877 and on motion of Mr. Ensign, it was accepted subject to the action of the auditing committee.

The President appointed Messrs. Weed, Denton and Keith to audit the Treasurer's accounts.

The list of members entitled to vote in the election of officers was read by the Secretary.

At the request of the President Mr. Cross made a statement concerning the action of the Council in the moment to reorganize the Joint Commission of the Scientific Societies of Washington and to form an Academy of Sciences.

The election of officers. Business for officers was then begun and resulted in the election of the following board for 1878:

President: Arnold Hayne.
Vice President: J. Stiles, Whitman Cross.
Treasurer: M. P. Campbell.
Secretary: C. H. Hayne, T. V. Stanton.

S. E. Ensign.

Member at large of the Council:
W. W. Weed
Bailey Wilkes
David White

Passed amendment to the standing rules. Mr. S. W. Gilbert gave notice in writing if a proposed amendment to the standing rules as follows: In article III after the word "dollars"
Society Meeting (continued).

insert “and fifty cents.”

The rough minutes of the Annual Meeting were read.

Communication.

After the business of the Annual Meeting Mr. H. G. Goodwin presented a paper on “The Seven Devils and the Canyons of Salmon and Snake Rivers Idaho.

Discussion by Mr. Emmet.

At 10:10 P.M. The Society adjourned.

T. W. Stanton
Secretary.