Fortieth Meeting, January 5, 1896.
In the assembly hall, Croakers Club.
About 90 members and guests were present.
President J. F. Commons in the chair.

The minutes of the preceding meeting were read and approved.

Communications. Regular Program:
1. R. F. Hill. The Geology of Panama.
2. C. D. Waletto. Recent and ancient markings on the seashore.

The first three papers were illustrated by lantern slides.
At 10 o'clock the meeting adjourned.

T. W. Sturton
Secretary
Forty-first Meeting, January 22, 1876

In the assembly hall of the Cosmos Club.
37 persons were present.
President Commons in the chair.

The minutes of the last meeting were read and approved.

The election of two members was announced.

The auditing committee appointed at the 34th meeting reported that the accounts of the Treasurer had been examined and found correct.

Then being no informal communications the regular program was then taken up as follows:


2. C. P. Van Hise. The Evolution of Primary and Secondary Structures in Rockes. The introductory portion of the paper was presented. Discussion by Mr. Burker.

At 10 o'clock the meeting adjourned.

T. W. Stanton
Secretary.

In the Assembly hall, Audubon Club.

40 members and guests present.

Vice President J. E. Diller in the chair.

The minutes of the last meeting were read and approved.

Communications:

C. R. Van Hise. The Relations of Primary and Secondary Structures in Rocks. (Continued from the last meeting.)

In the discussion of this paper remarks were made by Messrs. Turner, Diller, Willey, Walcott, Meen, and Smith.

At 10 o'clock adjourned.

J. W. Stanton
Secretary.
Friday third Meeting, February 12, 1876.
At the assembly hall of Cosmos Club.
30 present present,
President Commons in the chair.

The minutes of the preceding meeting were read and approved.

Announcement of two elections to membership was made.

Informal Communications:
E. A. Gilbert exhibited specimens of coal composed of clay and sand found in the beds of a creek in Lewis. They resembled coals, but their formation was attributed to the action of the atmosphere. Coal beds less than one year were present. The subject was continued by Messrs. Diller and Merrill.

Regular Program:


At 10 P.M., the society adjourned.

T. W. Stanton
Secretary.
Forty-fourth Meeting, February 26, 1876

In the Assembly Hall of Academia Club.

34 members and guests were present.
Vice President Whitman presided in the Chair.

The minutes of the last meeting were read and approved.

The secretary announced an election to membership.

Informal Communications:

1. W. G. Meeker exhibited a new geotogical map of New York,
   compiled by R. C. Howe and himself, and spoke briefly of the data used in its compilation.

2. S. Hooker spoke of the determination of fossils from the
   mesocephal by the methods of H. H. Wells. He stated
   that these methods had been found satisfactory in studying
   the eruptive rocks of Alaska.

Regular Program:

   Discussion by Messrs. Cross and Campbell.

2. F. W. Crossley (introduced by Meeker). The sea mills of Cephalopoda,
   as an adjunct to their paper on a note by Prof. W. C. Reddy
   offering and explanation of the sea mills worn ad.
   Discussion by Charles Allen, Jr.

3. H. W. Fairbanks: Stratigraphic position of the beds at
   Mather Springs, California. (Read by W. Lindgren).

at 10 o'clock the meeting adjourned.

F. W. Stanton
Secretary.
Fifty-fifth Meeting, March 11th, 1876.

In the assembly hall of Cosmos Club,
President Emmons in the chair,
28 persons present.

The minutes of the preceding meeting were read and approved.

Communications:

There being no informal communications the
regular program was taken up, as follows.

1. David Whitte, Thickness and Equivalency of some
local Coal Measure Bed a few along the eastern
Margin of the Appalachian Basin.

2. Mr. P. Campbell, Lithologic Variations in the Potomac
Series from New River to Big Stone Gap.
Messrs. Wilson and Emmons took part in the discussion
of these two papers.

3. Bailey Willis. Evidence of ancient Shores,
Discussed by Messrs. Campbell, Keith, Borton,
Wilson and Emmons.

at 9:30 the Society adjourned.

T.W. Stanton
Secretary.
Forty-sixth Meeting, March 25, 1876.
In Assembly hall of Cosmos Club,
President Cunningham in the chair.
48 persons present.

The minutes of the 45th meeting were read and approved.

Informal Communications:
1. E.R. Daily spoke of some effects of wind action in certain Colorado and exhibited a stone that had been used in the foundation of a house and that showed very deep carving and cutting that was attributed to wind action.

2. The same speaker called attention to another stone specimen from Colorado, showing a very irregular surface resembling sunkened carving. Small pebbles from this area with similar markings but on a much smaller scale were also exhibited. No explanation of the phenomenon was offered.

Regular Program.
1. The occurrence of free gold in granite.
Discussion by Messrs. Cunningham and Burrell.

2. Whitman Creek. The deposits of this creek and its inclusions, with suggestions as to the origin of certain deposits.

Remarks by Messrs. Lindgren, Stemberg, Aldrich, and Merrill.


At 10 o'clock the society adjourned.

T. W. Stanton
Secretary.
Forty Seventh Meeting, April 5th, 1876

In the Assembly hall of Osborn Club.

Vice-President Bibey in the Chair.

40 persons present.

The minutes of the preceding meeting were read and approved.

Communications:

The evening was devoted to the discussion of the subject of the application of Stratigraphy and Palaeontology in determining the subdivision of geological time.

As an example of the phase of the subject, special attention was given to the difficulties that have arisen in determining the boundary between Cretaceous and Eocene in the non-marine formations of the Rocky Mountain region. The historical statement and the general stratigraphy of the formations involved were presented by Whiteman, Dr. The fossil plants of the Cretaceous, Denudation and Post-Glacial ages were compared by J. H. Knowlton. The evidence given the Mollesian fauna of the same formation was discussed by W. W. Stanton and a paper on the Paleolithic fauna by Prof. W. B. Scott was read by Whiteman, Dr.

The conditions affecting the distribution of living plants were discussed by J. C. Cuvier (an invitant) and the present distribution of vertebrates was discussed by E. Hart Morris.

C. T. Hall offered the advancement in our knowledge of the lower Cretaceous during recent years and suggested that the supposed Jurassic freshwater beds of the Rocky mountains may be Cretaceous.

The general discussion remained more or less by Messrs. Wiltsie and Bibey.

The motion of S. H. Kellum that the society be adjourned was carried by the usual hour for adjournment in order to receive an informal communication by Dr. W. Stimson on some vertebrate fossils from a Cretaceous horizon in the state of Washington. With Dr. Underwood Notice of the Annual, coming, elephant and other animals were exhibited.

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

T. W. Stanton
Secretary
Forty eighth Meeting April 22nd, 1876.

In the Assembly Hall of Ceresco Club.
President Bunnin in the Chair.
25 persons present.

The minutes of the preceding meeting were read and approved.
An election to active membership was announced.

Informal Communications:
1. W. H. Lindgren presented some statistics on the increase of 
   temperature with depth in slope; the data were from California.
   The rate of increase was found to be 1° in 124 ft. and 1° in 177 ft.
   The subject was discussed by Messrs. Gilbert and Parsonson.

2. J. T. Blake exhibited specimens of lizards found on the Pacific 
   Coast in Washington and described the and of occurrence. It is 
   believed to have been from a shipwrecked cargo.
   Mr. Merrill took part in the discussion.

Regular Program:


   Discussion by Messrs. Higgs, Gilbert, Lindgren, and Butter.

At 9:30 p.m. the Society adjourned.

T. W. Stanton
Secretary.
Forty-ninth Meeting, May 13, 1876.

In the assembly hall of Cosmos Club,
President Simmons in the chair.
33 persons present.

The minutes of the 48th meeting were read and approved.

An election to membership was announced.

Communications. Regular Program:


At 10:40 P.M. the society adjourned.

T. W. Stanton,
Secretary.
Fifth Meeting, May 27, 1896

In the Assembly Hall of Cosmos Club

President Edmund in the chair.

37 persons present.

The minutes of the 47th Meeting were read and approved.

The President announced that a contribution to the

Pavement Memorial Fund had been obtained by subscription

from the members of the Society.

An election to corresponding membership was announced.

Informal Communications:

G. S. Diller exhibited a new form of tube for the

extraction of minerals by means of living lizards. It is a

modification of Leidy's apparatus.

Regular Program:

1. Mr. William Whitney, The Structure and Texture of Soil
   (with lantern illustrations).

2. Mr. W. F. Shill, Spanish American Topographic Nomenclature
   (with lantern illustrations).

   Discussed by W. Wayland Vaughan.

One motion of Mr. Crone, seconded by Mr. Diller, the meeting
was prolonged beyond the usual hour of adjournment in
order to receive the third paper of the evening.

3. Mr. David White, Flora of the Upper and Middle P
   (Metcalf).

At 10:15 P.M. the Society adjourned.

F. W. Stanton
Secretary.
Fifty-First Meeting November 11, 1876

In the assembly hall of Cosmos Club
President Bulman in the Chair.
26 persons present.

The minutes of the 50th meeting were read and adopted.

Communications. Regular program:
   Discussion by Messrs. Waleott and Hayes.

   Remarks were made by Messrs. Hoyt and Kindgren.


At 10:15 P.M. the society adjourned.

T. W. Stanton
Secretary
Fifty-second Meeting, November 25, 1876.

In the Assembly Hall of Common Club.
President Commons in the chair.
34 persons present.

The minutes of the preceding meeting were read and approved.

An election to membership was announced by the Secretary.

Communications: Regular Program.

1. Discussion of paper by Mr. Arthur Keith, "Notes on the Structure of the Channery District," which was read at the last meeting. The discussion was opened by Mr. Keith and participated in by Messrs. Pegge, Stone and Kilbre.

2. G. T. Baker's some queries on rock differentiation.

Discussed by Messrs. Cross, Merrill, Diller and Commons.

At 10 o'clock the meeting adjourned.

T. W. Stanton, Secy.
Fifty Third Meeting, December 9, 1876.

In the Assembly Hall of Crescent Club.
President Brunotte in the Chair.
35 persons present.

The Minutes of the 52d meeting were read and approved.

An election to membership was announced.

The President appointed Messrs. Turner, Campbell and Lindsey as an auditing committee to examine the accounts of the Treasurers.

Informal Communications:
1. Father Keith exhibited sections and samples of the general relations of the Cambrian formations of Tennessee and the Appalachian Region.
   The subject was discussed by Mr. Campbell.
2. Mr. Lindsey reported the occurrence of a basic ultramafic plug of iron, probably dunite, in the Potomac formation near Anacostia and exhibited a specimen of the mineral.
   Remarks were made by Messrs. McLean and Merriam.

Regular Program:
1. Whitman Cases. Large landslide in Colorado.
   Discussed by Messrs. Gilbert, Vail, Turner, and McLean.

2. Mr. McLean. The formation of Arcturus.
   Remarks were made by Mr. Campbell.

3. Wendell Lindsey. The Nevada City silver field.
   Discussed by Messrs. Emmore and Jordan.

At 10 o'clock the Society adjourned.

T.W. Stanton
Secretary.
Fifty Fourth Meeting, December 16, 1876

In the Assembly hall of Cosmopolitan Club,
President Comminos in the chair.
30 persons present.

At this special meeting the retiring President, S.T. Comminos delivered the annual address his subject being
The Sociology of Early Government Ordinances.

T. W. Stanton
Secretary.
Fiftieth Meeting December 23, 1876

The Annual Meeting was in the Assembly Hall, Cosme Club
President Dunnin in the chair.
26 Members present.

Before the business of the Annual Meeting we held
three hours was given to the presentation of papers and communications
as follows:
1. F. W. Tichenor described a hornblende-basalt
from California.
2. H. W. Stanton, the burrows in basaltic andesite from Wyoming.
3. H. K. Gilbert, on the occurrence of cliffs of pyrite in the
4. H. K. Hill, a specimen occurrence of underground water
near San Antonio, Texas.

The minutes of the third annual meeting were then read.

The Annual Report of the Treasurer for 1876 was read
and accepted.

The Annual Report of the Treasurer was read.
The auditing committee, consisting of Messrs. Turner,
Campbell, and Andrews, appointed at the 6th meeting, reported
that the Treasurer's accounts had been examined and
found correct.

On motion of Mr. Gilbert the reading of the list of
Members entitled to vote was dispensed with.

The Society then proceeded to vote for officers for 1877
and elected the following board:
President: H. K. Haynes.
Vice President: F. W. Tichenor, Whitman Cross.
Treasurer: H. K. Campbell.
Members-at-Large (2): F. W. Campbell,
of the Council: H. K. Gilbert, R. F. Hill,
E. W. Marell, C. D. Wade.

The rough minutes of the annual meeting were read.

At 9:40 the Society adjourned.

F. W. Stanton
Secretary.