Eleventh Meeting. Jan. 8, 1894
In the Assembly Hall of the Cosmos Club.
The President, C. D. Walcott, in the chair.
48 members and guests present.

The minutes of the last meeting were
read and approved.

Announcements of election to member-
ship were made.

Informal Communications:
J. E. Diller exhibited specimens, and dis-

cussed the origin, of certain deposits found
upon rocks at high altitudes in the
western United States. Messrs. Emmons, Velle-
brand, Merriam, Cross, and Walcott took part
in further discussion concerning this deposit.

Regular Program:
1. W. B. Clark. Certain climatic features
of Maryland. Illustrated by charts of rain-
fall and temperature issued by the Mary-
lond State Weatherman.
Discussion by Messrs. Eldridge, McGee, Barton,
and Campbell.
3. Discussion of Le Conte's "Theories of the origin
of mountain ranges," Jour. Geology Vol. 1,

At 10 o'clock adjourned.

Whitman Cross
Sec.
In the Assembly hall of the Cosmos Club.
The President, C. O. Kellogg, in the chair.
45 members and guests present.

The minutes of the last meeting were read and approved.

Informal Communications:
R. F. Packard gave notice of the discovery of the mineral variscite in Utah, the second occurrence in the United States. Analysis and specimen.

C. W. Hayes described briefly a small area of complex folding in the southern Appalachians where the amount of contraction accompanying the development of slaty cleavage could be approximately measured.

Regular Program.

At 10 o'clock adjourned.

Whitman Cross, Sec.
Thirteenth Meeting, Feb. 14, 1894.
In the assembly hall of the Cosmos Club.
The President, C. H. Walcott, in the chair.
33 members and guests present.

The minutes of the last meeting were read and approved.

Informal Communications.

E. A. Gilbert commented upon the natural subsidence of the Cretaceous section exhibited in the vicinity of Pueblo, Colo.

C. H. Walcott gave notice of some new discoveries of Cambrian faunas in Pennsylvania and Alabama.

Regular Program.
1. Whitman Cross, "The supposed Archean Complex of the Pikes Peak district, Colo." (10 min.)
2. E. H. Mathews, "Notes on the Granites of the Pikes Peak district. (10 min.)

Remarks by Messrs. Turner, Becker & Walcott.
3. E. J. Becker, "The Torsional Theory of Joints." (20 min.)

Remarks by E. H. Williams.
4. W. J. McGee, "A few words on Continent Building and Mountain Building." (20 min.)

At 10 o'clock adjourned.

Whitman Cross, Sec.
Fourteenth Meeting  Feb. 23, 1894

In the Assembly Hall of the Cosmos Club.
Vice President E. K. Gillett in the Chair.
28 members & guests were present.

The Minutes of the last meeting were read and approved.

The Secretary made announcement of elections to membership.

There were no informal communications.

Regular Program:
1. H. W. Turner: Cenozoic Slate Series of the Sierra Nevada of California (20 min.)
   Remarks by Messrs. Cross & Diller.
2. C. C. Hayes: Geologic Relation of the Southern Appalachian Radiolarian deposits.
   Remarks by Mr. Chatard.
3. David White: Note on the Paleontological Relation of the "Conglomerate Series" in the
   West Virginia-Tennessee region.
   Remarks by Mr. Campbell.

At 10 o'clock adjourned.

Whitman Oppes Sec.
Fifteenth Meeting, Mar. 14, 1874.
In the Assembly hall of the Cosmos Club.
The President, E.S. Williscott, in the Chair.
2 members requested present.

The Minutes of the last meeting were read and approved.

Informal Communications
Whitman Cross gave notice of the discovery of many masses of fluorolite in the Clipple Creek district, Colorado.

Regular Program
1. A. T. Williams, The crystalline rocks in the vicinity of Washington, D.C. (30 min.)
   Remarks by Messrs. Diller, Turner, and Williscott.
2. W. H. Barton, Cenozoic history of Eastern Maryland and Virginia. (20 min.)
   Remarks by Mr. Davis.
3. H. W. Turner, The igneous rocks of the Sierra Nevada. (30 min.)
   Discussion by Messrs. Williams, Diller, Cross.

At 10 o'clock adjourned.

Whitman Cross
Sec.
Sixteenth Meeting, Mar. 22, 1896 (Special)
In the Assembly Hall of the Cosmos Club.
The President, E. D. Wattles, in the Chair.
45 members and guests present.
(The members of the Biological Society of Washington were invited by vote of the Council to be present at this meeting.)

The Minutes of the last meeting were read and approved.

Regular Program:

2. Dr. Thea Gill. Differences between Animal Types as Indicators of Geological Age.

At 10 o'clock adjourned.

Whitman Cross
Sec.
Seventeenth Meeting, March 28, 1897.
In the Assembly Hall of the Cosmos Club.
President, C. H. Walcott, in the chair.
55 members and guests present.

The Minutes of the last meeting were read and approved.

The Secretary announced an election to membership.

Regular Program:

2. Lester F. Ward. The Geology of the Potomac Formation.

At 10 o'clock adjourned.

Whitman Cross
Sec.
Eighteenth Meeting, Apr. 11, 1894.
In the Assembly Hall of the Cosmos Club.
The President, C. D. Walcott, in the chair.
28 members and guests present.

The Minutes of the last meeting were read
and approved.

The Secretary announced elections to mem-
bership.

Informal Communications.
H. W. Turner made some remarks upon
the character and probable origin of certain
small mounds of Pleistocene age, in California.
Further remarks upon this subject were made
by Messrs. Diller, Melgee and Hill.

Regular Program.
1. Discussion of C. F. Nardo paper on the
geology of the Potomac Formation, read at the
meeting of Mar. 28. In this discussion
Messrs. Barton, Melgee and Nardo took part, and,
in an invitation, remarks were made by Mr.
P. R. Mehler, a guest.
2. F. H. Knowlton. Fossil Plants as an
aid to geology.

At 10 o'clock adjourned

Whitman Cross
Sec.
Nineteenth Meeting, Cressa Club, Apr. 25, 1894

President INCO in the chair.
Fourteen members present.

After the minutes of the last meeting were read and approved, the secretary announced the election of Mr. A. L. Fairchild of Rochester, N.Y., and Mrs. P. R. Miller of Baltimore and as corresponding member of the society.

As there were no informal communications, the regular program was taken up.

Mr. R. L. Parkard made a communication on an occurrence of granite near Cape Bay, Maine, and the paper was discussed by Mr. Turner.

A joint paper on the occurrence of Sierra Nevada rocks in California was read by Mr. G. S. Miller and Mr. A. S. Schuchert. It was discussed by Messrs. Turner, Stanton, Waring, and INCO.

Mr. A. S. Schuchert made a communication on a fault of the Mohawk-Adirondack region, which was discussed at considerable length by Messrs. Turner and INCO.

Mr. 9:25 the society adjourned.

G. S. Miller
Secretary.
Twenty-first Meeting, May 9, 1894.
In the Assembly Hall of the Cosmos Club.
The President, Dr. T. Walcott, in the chair.
26 members and guests present.

The minutes of the last meeting were read by the Secretary, and approved.

The Secretary announced elections to membership.

There being no informal communications the announced program for the meeting was taken up.

1. Conclusion and Discussion of N. H. Knowlton's paper (of Apr. 11) "Fossil Plants as an aid to Geology.
   In the discussion Messrs. Darton, Uhler, Wade, and Ward took part.

   Remarks by Messrs. Stanton, Walcott, and Hayes.

3. The Big Backs of Dry Creek, by L. E. Gilbert.


At 10 o'clock adjourned

Whitman Cross, Sec.
Twenty-first Meeting May 23, 1894.
In the Assembly Hall of the Cosmopolitan Club.
The President, C. S. Waite in the Chair.
30 members and guests present.

The Minutes of the last meeting were read by the Secretary and approved.

Announcements of elections to membership were made.

Unannounced Communications
C. T. Becher spoke upon Changes in the Elements
of the Earth's Orbit and their Effect upon
Climate, considered as the cause of Glacial Epochs.

Regular Program.
   Discussion by Miss M. Dall. Hill and, upon
   invitation, by Prof. J. W. Spencer.

2. W. H. Dall. Notes on the Geology of San Diego, Cal.

3. L. T. Ward, presented a summary of the
   announced paper "The Paleontology of the
   Paloma Formation."

At 10 o'clock Adjourned.

Whitman Cross.
Twenty-Second Section, Nov. 28th 94

The President, C. F. Talcott, in the chair.

The Secretary announced an election to mem-
bership.

The President announced the death of Prof.
Geo. W. Williams, a member of this Society.

These being no other business, communications the regular program was taken up.

1. C. F. Talcott. A note on the biology of the White Moun-
tains of California.

2. J. L. Newberry. A note on the so-called
Monotis of the Lucinville, Cal., read by Geo. B.
Wells, in the absence of the author.

3. Thomas Valentine. Heat and Cold as agents of
erosion. Discussion by Messrs. Talcott,
Vivian and Whitney.

At 9.45 adjourned

Whitman Cross, Sec.
Twenty-Third Meeting, Dec. 12, 1894.

In the Assembly Hall, Cosmos Club.

The President, C. E. Walcott in the Chair.

37 members and guests present.

The Minutes of the last meeting were read and approved.

The announcement of elections to member ship was made by the Secretary.

The President appointed Messrs. Eldridge, Campbell and M. Deeds as a committee to audit the Treasurer's accounts.

Program.

   Discussion by Messrs. Walcott, Wallis, Eldridge and Shumard.

   There was no time for discussion of this communication.

At 10 o'clock the Society adjourned.

H. H. Shumard.
Twenty-fourth Meeting, Dec. 19th, 1894.

 Held in the lecture room of the Columbia University, at 8.30 A.M.

 At this special meeting the address of the retiring President, Charles O. Weld, was delivered, the subject being "The United States Biological Survey". The speaker was introduced by Maj. W. Powell.

 Invitations to hear this address were extended to the members of other scientific societies of Washington, and about 100 persons were present.

 Whitman Crers
 Dec.
Twenty-First Meeting = Annual Meeting
 Held Oct. 25, 1894, in Cosmos Club Hall.
 The President, C. D. Wealott, in the Chair.
 25 members present.

The minutes of the last Annual Meeting were read by the Secretary, and approved.

By a special vote of the Society the Secretary was authorized to report at this time the names of persons elected to membership since the last meeting, and announcement of such elections was then made.

The Annual Report of the Secretaries, for 1894, was read by Mr. Cross. Upon motion, this report was accepted by the Society.

The Treasurer then presented his Annual Report, for 1894. The auditing committee appointed at the meeting of Dec. 12th reported that they had examined the accounts of the Treasurer and found them correct.

In accordance with Act. 7 of the Standing Rules the names of members who had paid their dues for 1894 were read by the Secretary. A recess of five minutes was taken.

The Society then proceeded to the election of officers for the coming year, with result as follows:

President: E. P. Hildreth
Vice President: J. F. Emmons, J. S. Diller
Treasurer: A. C. Eagles
Secretaries: Whitman Cross, C. Willard Hayes

At 9:50 adjourned

Whitman Cross, Sec.