

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

The minutes of the last meeting were read and approved.

Announcements of election to membership were made.

Informal Communications.

J. S. Diller exhibited specimens, and discussed the origin, of certain ^{white} deposits found upon rocks at high altitudes in the western United States. Messrs Edmonson, Hillbrand, Merriam, Cross & Walcott took part in further discussion concerning this deposit.

Regular Program:

1. W. B. Clark. Certain climatic features of Maryland. Illustrated by charts of rainfall and temperature issued by the Maryland State Weather Bureau.
2. C. D. Walcott. Intraformational Conglomerates. Discussion by Messrs: Eldridge, McGehee, Darton, and Campbell.
3. Discussion of LeConte's "Theories of the origin of mountain ranges"; Jour. of Geology, Vol. I, pp. 543-573. By Arthur Keith & G. F. Becker.

At 10 o'cl adjourned.

Whitman Cross.
 Sec.

Twelfth Meeting. Jan. 24, 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

Informal Communications:

R. L. 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.

1. G. K. Gilbert. "Le Conte's Physical Theory of Mountain Formation". Remarks by Messrs Willis and Barkness.
2. G. D. Harris. "On the geological position of the Eocene deposits of Maryland and Virginia". Remarks by Messrs Dall and Ward.
3. Lester F. Ward. "The Cretaceous rim of the Black Hills". Specimens and photographs of large Cycad fossils were exhibited in illustration. Remarks by Mr. Hill.

at 10 o'cl adjourned

Whitman Cross.
 Sec.

Thirteenth Meeting, Feb. 14, 1894.

In the Assembly Hall of the Cosmos Club.

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

33 members and guests present.

The minutes of the last meeting were read and approved.

Informal Communications.

G. K. Gilbert commented upon the natural subdivision of the Cretaceous section exhibited in the vicinity of Pueblo, Colo.

C. D. 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 Pike's Peak district, Colo." (15 min.)

2. E. B. Mathews, "Notes on the Granites of the Pike's Peak district." (15 min.)

Remarks by Messrs Turner, Becker & Walcott.

3. G. F. Becker, "The Torsional Theory of Joints." (30 min.)

Remarks by G. H. Williams.

4. W. J. McJee, "A few words on Continent Building and Mountain Building" (20 min.)

At 10 o'clock adjourned

Whitman Cross,
Sec.

Fourteenth Meeting Feb. 28, 1894

In the Assembly hall of the Cosmos Club.
Vice President G. K. Gilbert 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. Amiferous slate series of the Sierra Nevada of California (20 min)
Remarks by Messrs Cross & Diller.
2. C. W. Hayes. Geological Relation of the Southern Appalachian Bauxite deposits -
Remarks by Mr. Chataud.
3. David White. Note on the Paleontological Relations of the "Conglomerate Series" in the West Virginia-Tennessee region.
Remarks by Mr. Campbell.

At 10 o'clock adjourned

Whitman Cross
Sec.

Fifteenth Meeting, Mar. 14, 1894.
 In the Assembly hall of the Cosmos Club.
 The President, E. D. Walcott, in the Chair.
 27 members & guests present.

The Minutes of the last meeting were read and approved.

Informal Communications.

Whitman Cross gave notice of the discovery of many masses of phonolite in the Cripple Creek district, Colorado.

Regular Program.

1. L. H. Williams, The crystalline rocks in the vicinity of Washington, D.C. (30 min.)
 Remarks by Messrs Diller, Turner, Cross and Walcott.
2. M. H. Darton, Cenozoic history of Eastern Maryland and Virginia. (20 min.)
 Remarks by Mr. Harris.
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, 1894 (Special)

In the Assembly hall of the Cosmos Club.
The President, C. D. Walcott, 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.

1. Prof. W. K. Brooks - by invitation. A Zoological View of the oldest Fossils.

Discussion by Messrs Gilbert and Dall.

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

At 10 o'clock adjourned

Whitman Cross-
Sec.

Seventeenth Meeting, March 28, 1894.
 In the Assembly Hall of the Cosmos Club.
 President, C. D. 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.

1. W. D. Johnson. Glacial Erosion. abstract. 15 min.
 In discussion Messrs Gilbert, Willis and McJee took part.
2. Lester J. Ward. The Geology of the Potomac Formation.

At 10 o'cl 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 + guests present.

The Minutes of the last meeting were read
and approved.

The Secretary announced elections to membership

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, McJee and Hill.

Regular Program.

1. Discussion of L. J. Ward's paper on the geology of the Potomac Formation, read at the meeting of Mar. 28. In this discussion Messrs. Darton, McJee and Ward took part, and, on invitation, remarks were ^{also} made by Mr. P. R. Uhler, a guest.

2. F. H. Knowlton. Fossil Plants as an aid to geology.

At 10 o'cl adjourned

Whitman Cross
Sec.

Nineteenth Meeting. Cosmos Club.

Apr. 25. 1894

President Walcott in the chair

Fourteen members present.

After the minutes of the last meeting were read and approved the secretary announced the election of Prof. H. L. Fairchild of Rochester N. Y. and Mr. P. R. Uhler of Baltimore Md. as corresponding members of the Society.

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

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

A joint paper on the discovery of Devonian Rocks in California was read by Mr. J. S. Diller and Mr. Chas. Schuchert, it was discussed by Messrs Turner, Stanton, Diller & Walcott.

Mr. W. H. Dallin made a communication on Faults of the Mohawk-Adirondack region which was discussed at considerable length by Hayes, Turner and Walcott.

At 9.25 the Society adjourned

J. S. Diller
Secretary.

Twentieth Meeting, May, 9, 1894.
 In the Assembly Hall of the Cosmos Club.
 The President, O. D. 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 J. H. Knowlton's paper (of Apr. 11) "Fossil Plants as an aid to Geology".
 In the Discussion Messrs Darton, Uhler, Haekness and Ward took part.

2. Notes on the Geology of the Pikes Peak District by Whitman Cross.
 Remarks by Messrs Stanton, Walcott & Hayes.

3. The Pig Backs of Dry Creek, by J. K. Gilbert.

4. Artesian Well Prospects of the Middle Atlantic Slope, by N. S. Darton.

At 10 o'cl adjourned

Whitman Cross - Sec.

Twenty First Meeting May 23, 1894.

In the Assembly hall of the Cosmos Club.

The President, C. D. Walcott 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

G. F. Becker 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.

1. R. T. Hill. Geology of the Island of Cuba.
Discussion by Messrs Dall, Hill and, upon invitation, by Prof. J. W. Spencer.
2. W. H. Dall. Notes on the Geology of San Diego, Cal.
3. L. J. Ward, presented a Summary of the announced paper "The Paleontology of the Potomac Formation."

At 10 o'cl adjourned

Whitman Cross.

Twenty-second Meeting, Nov. 28th '94

Held in the Assembly Hall, - Cosmos Club,
The President, C. D. Walcott in the chair
32 members & guests present -

The Minutes of the last meeting were read
approved.

The Secretary announced an election to mem-
bership

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

There being no short unannounced communi-
cations the regular program was taken up.

1. C. D. Walcott. Note on the Geology of the White
Mountains of California.

Remarks by Messrs. Emmons, Willis, & Hague

2. Almas Wyatt. A note on the so-called
Monotis of ~~the~~ Fairview, Cal., read by Dr.
Liller in the absence of the author.

3. Emily Willis. Heat and Cold as agents of
Erosion. Discussion by Messrs. Walcott
Beaman and Whitney.

At 9.45 adjourned

Whitman Cross
Sec.

Twenty Third Meeting, Dec. 12, 1894.

In the Assembly Hall, Cosmos Club.
The President, C.D. Walcott in the Chair.
34 members and guests present.

The Minutes of the last meeting were read and approved.

The announcement of elections to membership was made by the Secretary. The President appointed Messrs Eldridge, Campbell and Weed as a committee to audit the Treasurer's accounts.
Regular Program.

1. C. W. Hayes. Geological Relations of the Tennessee Phosphates.

Discussion by Messrs. Walcott, Vallis, Eldridge and Emmons.

2. Arthur Keith. Some new features of Appalachian Structure.

There was no time for discussion of this communication.

At 10 o'cl The Society adjourned

William Cross.

Twenty fourth Meeting, Dec 19th 1894.

Held in the Lecture room of the Columbian University, at 8.30 o'clk.

At this special meeting the Address of the retiring President, Charles D. Walcott, was delivered, the subject being

"The United States Geological Survey".
The speaker was introduced by Maj. J. 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 Cross
Sec.

Twenty fifth Meeting = Annual Meeting.
 Held Dec. 26, 1894, in Cosmos Club Hall.
 The President C. D. Walcott 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 Art. of the Standing Rules the names of ^{active} members who had paid their dues for 1894 was 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: G. K. Gilbert
- Vice Presidents: S. J. Emmons, J. S. Diller.
- Treasurer: Arnold Hague.
- Secretaries: Whitman Cross, C. Willard Hayes.
- Members-at-large of the Council: G. F. Becker, R. J. Hill, G. P. Merrill, C. D. Walcott, Bailey Willis.

At 9-50 adjourned

Whitman Cross.
 Sec.

Prior to the business of the Annual Meeting 45 minutes was devoted to a discussion of the paper by Arthur Keith, read at the 23rd meeting, "Some new features of Appalachian structure." Messrs. Willik, Hayes and Keith took part.