

Seventy first Meeting, January 12, 1898.

In the assembly Hall of the Cosmos Club.

Vice-President Diller in the chair.

40 persons present.

The minutes of the 70th meeting were read and approved.

The chairman announced that the President had appointed Messrs Whitman Cross, David White and Geo. C. Smith as Committee on Communications for the year 1898.

The chair also announced that the auditing committee had examined the Treasurer's accounts and found them correct.

In Formal Communications.

G. H. Gilbert exhibited a glaciated boulder from Ithaca, N. Y., whose surface showed fractures and other evidences of impact made during its glaciation.

Regular Program.

1. G. H. Eldridge. Asphalt deposits in Utah.
Discussion by Mr. Emmons.
2. A. C. Spencer. The Upper Cretaceous section of southwestern Colorado.
Discussion by Messrs. Emmons, Gilbert, Stanton and Eldridge.
3. Whitman Cross. The Geological versus the Petrographical Classification of Rocks.
The discussion of this paper was postponed to the next meeting.

at 9:55 P.M. the Society adjourned.

F. W. Stanton,
Secretary.

Seventy second Meeting, January 26, 1898

in the assembly Hall of Cosmos Club.

President Hagedorn in the chair.

32 persons present.

The minutes of the 71st meeting were read and approved.
An election to active membership was announced.

The proposed amendment to the standing Rules, increasing the annual dues of active members to two dollars and fifty cents, was taken up as unfinished business.

Mr. Emmons moved that the vote on the amendment be taken by ballot. There being no second to this motion

Mr. Gilbert moved the adoption of the amendment.

On motion of Mr. Cross which was seconded the amendment was rejected.

Informal communications.

Geo. P. Merrill spoke of the abundant occurrence of fulgurites on Little Ararat in Asia Minor and exhibited a number of specimens from that locality.

Mr. Cross mentioned the occurrence of fulgurites on a number of mountain peaks in Colorado and called attention to the varying effects of lightning on different kinds of rocks. The subject was further discussed by Messrs. Emmons, Matthews, Merrill and Hagedorn.

Regular Program

1. Discussion of paper read at preceding meeting by Whitman Cross on "The Geological versus the Petrographical Classification of Rocks." The discussion was opened by Mr. Cross who gave a resume of his paper. Remarks were made by Messrs. Merrill, Diller, Turner, and Matthews.

2. G. K. Gilbert. The Pueblo Folio.
Discussion by Messrs. Emmons and Cross.

3. David White and Whitman Cross. The Montreal meeting of the Geological Society of America.

at 10 P.M. the society adjourned.

J. W. Stanton
Secretary

Seventy-third Meeting, February 9, 1898.

In the assembly Hall of Cosmos Club.

President Hagen in the chair.

31 persons present.

The minutes of the 72nd meeting were read and approved.

Informal Communications.

H. W. Turner spoke of some recently proposed terms in the nomenclature of rocks and minerals suggesting supersilica instead of perilite.

The subject was further discussed by Mr. Diller.

Regular Program.

1. H. W. Turner. Remarks on the classification of igneous rocks.
2. Arthur Keith. The Bricwell and Wadbury Folios.
Discussion by Messrs. Mendenhall, White, Willis and Gilbert.
3. Dr. C. Mendenhall. Some stratigraphic changes in the New River coal field.
4. R. T. Hill and Barley Willis. Notes on the Sierra Madre near Monterey, Mexico.
Discussion by Messrs. Darton, Hill and Gilbert.

At 10:05 the society adjourned.

T. W. Stanton
Secretary

Seventy-fourth Meeting, February 23, 1898.

In the Assembly Hall of Cosmos Club.

Vice-President Diller in the Chair.

51 persons present. -

The minutes of the 73^d meeting were read and approved.

The Chairman announced that the Society would nominate a Vice-President of the Washington Academy of Sciences at the next regular meeting.

Communications. Regular Program.

1. N. H. Darton. Tertiary of South Dakota and Nebraska.
with lantern views. Discussion by Messrs. Merrill,
Diller and Gilbert.
2. H. W. Turner. The origin of the Yosemite valleys,
California. With lantern illustrations.

At 10 P.M. the Society adjourned.

T. W. Stanton,
Secretary

Seventy fifth meeting, March 9, 1898.

in the Assembly Hall of Cosmos Club.

Vice-President Diller in the chair.

25 persons present.

The minutes of the 74th meeting were read and approved.

In accordance with the notice previously given the Society proceeded to nominate by ballot a Vice-President of the Washington Academy of Sciences, and on the second ballot - the first formal ballot - Mr. Charles D. Walcott, having received a majority of all the votes cast, was declared the nominee of the Geological Society for the office mentioned.

Communications: Regular Program.

1. T. W. Stanton. The Mesozoic section of Sierra Blanca, Texas.
Discussion by Messrs. Turner, Taff and Diller.
2. F. H. Knowlton. The Belly River horizon on the Upper Missouri River.
The paper was discussed by Mr. Weed.
3. F. L. Ransome. Trachandesite flows of the Sierra Nevada.
Discussion by Messrs. Cross, Turner, Johnson and Diller.

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

T. W. Stanton
Secretary.

Seventy sixth Meeting, March 23, 1898.

In the Assembly Hall of Cosmos Club.

President Hague in the chair.

35 persons present.

The minutes of the 75th meeting were read and approved.

Communications. Regular Program.

1. C. R. Van Hise. Crystalline schists and rock flowage.
2. G. O. Smith. Igneous phenomena in the Tintic Mountains, Utah.
Discussion by Messrs. Cross, Walcott, Turner and Hague.
3. A. C. Spencer. A "blowout" near Mancos, Colorado.
The paper was discussed by Mr. Cross.

At 9:50 P.M. the Society adjourned.

T. W. Stanton
Secretary.

Seventy-seventh meeting. April 13. 1895.

In the Assembly Hall of the Cosmos Club,
President Hague in the chair,
Twenty persons present.

The minutes of the 76th meeting were read and approved.

Mr. Merrill exhibited ~~specimens~~^{crystals} of calcite containing same stone similar to those at Fontainebleau except that they are scalenohedral. The specimens were found in South Dakota. Mr. Ransome, referring to the term brachandesite, presented at the 75th meeting, proposed, as more suitable, the name latite as a substitution therefor.

Communications. Regular Program

1. J. A. Taff. Geology of the McAlister quadrangle.
Discussed by Mr. Hill.
2. David White. The probable age of the McAlister coal group.
Discussed by Mr. Taff.
3. A. H. Darton. The Franklin and Nominia folias.
4. H. W. Turner. On the succession of the igneous rocks of the Sierra Nevada.
Discussion by Messrs. Ransome, Van Hise, Cross and Hague.

At ten o'clock the Society adjourned.

David White
Secy pro tem.

Seventy eighth Meeting, April 27, 1898.

At the assembly Hall of Cosmos Club.

President Hague in the chair.

19 persons present.

The minutes of the 77th meeting were read and approved.

Communications. Regular Program.

1. N. H. Darton. Methods of obtaining geothermal data.
Discussion by Messrs. Gilbert and Diller.
2. Arthur Keith. Volcanic rocks of the Piedmont region.
Discussion by Messrs. Matthews and Darton.
3. G. W. Tower. Mining geology of the Tintic Mountains, Utah.

At 9:35 P.M. the Society adjourned.

T. W. Stanton,
Secretary.

Seventy-ninth Meeting, May 11, 1898.

in the assembly Hall of Cosmos Club.

President Hague in the Chair.

44 persons present.

The minutes of the 78th meeting were read and approved.

Communications. Regular Program:

1. W. H. Weed. Mountains of Northern Montana. Illustrated by lantern views. Discussed by Messrs. Cross and Emmons.
2. Whitman Cross. The La Plata Mountains, Colorado. Illustrated by lantern views. Discussion by Mr. Emmons.

The Society adjourned at 9:30 PM.

T. W. Stanton
Secretary.

Eighth Meeting, May 25, 1898.

In the assembly Hall of Cosmos Club.

President Hague in the Chair.

28 persons present.

The minutes of the 79th meeting were read and approved.

Communications. Regular Program.

1. W. F. Hillebrand. Distribution and quantitative occurrence of vanadium in rocks of the United States.
2. A. C. Spencer and Geo. H. Girty. The Devonian in south-western Colorado.
Discussion by Messrs. Spencer and Emmons.
3. S. F. Emmons. A geological excursion in southern Russia.
(Illustrated by lantern slides).

At 10:05 P. M. the society adjourned.

J. W. Stanton,
Secretary.

Eighty first Meeting, November 9, 1898.
 In the assembly Hall of Cosmos Club.
 President Hagne in the chair.
 55 persons present.

The minutes of the eightieth meeting were read and approved.

Communications. Regular Program.

1. Robert Muldrow (by invitation). Narrative of a recent trip up the Sushitna River of Western Alaska.
 The subject was further discussed by Mr. Muldrow in response to queries by Messrs. Erimous, Hayes and Good.
2. E. C. Barnard. The survey of the Forty Mile District of Alaska.

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

J. W. Stanton,
 Secretary.

82nd Meeting - November 23 - 1898.

In the Assembly Hall of the Cosmos Club
President Hague in the chair.

35 persons present.

The minutes of the 81st meeting were
read and approved.

An election to active membership was announced.

Informal communications.

G. P. Merrill. exhibited specimens of
stalactites composed of sand cemented
by a fungus growth, and formed on the
branches of cypress trees exposed to
winds blowing across a sand beach.

Regular program.

1. C. D. Walcott. Note on pre-Cambrian
Fossiliferous rocks in Montana.
2. G. K. Gilbert. An American Boulder-
parment. Discussed by M. R. Campbell
and W. D. Johnson.
3. G. K. Gilbert. An Anticlinal ridge in an
alluvial terrace. Discussed by H. W. Turner.
4. M. R. Campbell. The Fogwell folio -
Virginia and West Virginia. Discussed
by B. Willis and C. D. Walcott.
5. H. W. Turner. The Neocene and recent
Tuloumne valley, California. Discussed
by W. Lindgren, G. K. Gilbert and C. D. Walcott.

At 10 O'clock the Society adjourned.

C. W. Hayes
Secy.

Eighty-third Meeting, December 7, 1898

In the assembly Hall of the Cosmos Club.

President Hager in the Chair

40 persons present.

The minutes of the 82^d meeting were read and approved.

Communications. Regular Program.

1. N. H. Darton. Mesozoic stratigraphy of the Southern Black Hills.
2. G. K. Gilbert. Ripple marks and cross-bedding.
3. H. W. Turner. The glaciated region of the Sierra Nevada.

Each of the three papers was illustrated by lantern views.
The President appointed Messrs. F. L. Ramsell, J. E. Spurr and G. H. Brooks
as a committee to audit the accounts of the Treasurer.
At 10 P. M. the Society adjourned.

T. W. Stanton
Secretary.

Eighty fourth meeting, December 21, 1898.
Sixth Annual Meeting. In the Assembly Hall of Cosmos Club.
 President Hogue in the Chair.
 16 members present.

The minutes of the 5th annual meeting were read.

The annual report of the Secretaries was read and accepted.

The annual report of the Treasurer was read and the auditing committee reported that the Treasurer's accounts are in excellent condition.

On motion of Mr. Emmons the reports of the Treasurer and Auditing Committee were accepted.

The secretary read the names of members entitled to vote in the election of officers, and also the standing rule relating to elections.

The President appointed Messrs. Mendenhall and Weber as tellers and the society proceeded to ballot for officers for the ensuing year. The following board of officers was elected:

President	Whitman Cross.
Vice-Presidents,	J. S. Diller, C. W. Hayes.
Treasurer	M. R. Campbell
Secretaries,	F. W. Stanton, David White.
Members-at-Large	{ S. F. Emmons
of the	{ S. F. Merrill
Council	{ Bailey Willis
	{ N. H. Darton
	{ A. H. Brooks

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

The meeting was then spent for informal communications and David White exhibited some specimens of boulders found in coal beds in Pennsylvania and Tennessee.

The communication was discussed by Mr. Campbell who spoke of his collection of such boulders.

at 9:30 P. M. The Society adjourned

F. W. Stanton
 Secretary.