

National Academy of Sciences.

Papers entered to be read before the Academy, at the present session.

- * I. The Geologic Age of the Equus Fauna, By G. K. GILBERT
- * II. The Cowles Electrical Furnace, By T. STERRY HUNT
- * III. On the Phylogeny of the Batrachia, By E. D. COPE
- * IV. On the Phylogeny of the Placental Mammalia, By E. D. COPE
- * V. The Comet of Biela, - - - - - By H. A. NEWTON
- †VI. Areas of High Barometric Pressure over Europe and Asia,
By ELIAS LOOMIS
- † VII. The Cockroach in the past and in the present, by S. H. SCUDDER
- †VIII. On the diathermancy of Ebonite and Obsidian, and on the pro-
duction of Calorescence by means of Screens of Ebonite and
Obsidian, - - - - - By ALFRED M. MAYER
- †IX. On the Coefficient of Expansion of Ebonite, By ALFRED M. MAYER
- † X. On the determination of the Cubical Expansion of a solid by a
method which does not require calibration of vessels, weighings,
or linear measure, - - - - - By ALFRED M. MAYER
- † XI. On measures of absolute Radiation. - By ALFRED M. MAYER
- †XII. On the Geology of the region near Zacualtipan, Hidalgo, Mexico,
By E. D. COPE

* Read April 20th.
† Read April 21st.
‡ Read April 22d.

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- †XIII. On ancient and modern methods of arrow release,
By EDWARD S. MORSE
- †XIV. The ordinal and super-ordinal groups of Fishes, By THEO. GILL
- †XV. On the absolute and relative wave lengths of the lines of the Solar
Spectrum, - - - - - By H. A. ROWLAND
- †XVI. Platinous compounds as additive molecules, By WOLCOTT GIBBS
- †XVII. Influence of Magnetism on Chemical Action, By IRA REMSEN
- XVIII. Upon the Deaf and Dumb of Martha's Vineyard (continuation of
Research relating to the ancestry of the Deaf,)
By ALEXANDER GRAHAM BELL
- †XIX. On the Invisible Spectra, - - - - - By S. P. LANGLEY
- †XX. Cretaceous metamorphic rocks of California, (by invitation,)
By G. F. BECKER
- XXI. On color contrast, - - - - - By OGDEN N. ROOD
- XXII. Classification of the Cambrian System of North America, (by
invitation,) - - - - - By CHAS. D. WALCOTT
- †XXIII. Crystallization of Platinum by means of the electric discharge in
vacuo, - - - - - By A. W. WRIGHT
- †XXIV. The Stomatopoda of the "Challenger" collection,
By W. K. BROOKS
- XXV. Budding in the Tunicata - - - - - By W. K. BROOKS
- XXVI. Effect of Magnetization on the Electrical resistance of metals,
By A. W. WRIGHT
- XXVII. On a proposed Expedition into the interior of Greenland during
the present summer with Disco as a base, (by invitation,)
By R. E. PEARY, U. S. N.

† Read April 21st.

† Read April 22d.

PAPERS TO BE READ ON TUESDAY, NOVEMBER 14th 1882.

NATIONAL ACADEMY OF SCIENCES.

- ✓ 1. Mean Annual Rain-fall.
Elias Loomis.
- ✓ 2. On White Phosphorus
Ira Remsen.
3. On the General Equations of Optics, as derived from
the Electro-magnetic Theory of Light.
J. Willard Gibbs.
4. On an Improved Form of Standard Daniell Cell.
George F. Barker.
5. On Complex Inorganic Acids.
Wolcott Gibbs.
- ✓ 6. On a Modified Form of Solar Eye-piece for use with
Large Apertures.
Charles A. Young.
- ✓ 7. On Triassic(?) Insects from the Rocky Mountains.
Samuel H. Scudder.
- ✓ 8. Expl^{an}ations on presenting a Copy of the first ten
numbers of the Author's Celestial Charts.
C. H. F. Peters.
9. Lists of Errors in Star Catalogues.
C. H. F. Peters.
10. Remarks on the Structure of the present Comet.
C. H. F. Peters.
- ✓ 11. On a Method of studying the Laws of Contrast quanti-
tatively.
O. N. Rood.
12. On the heat of the Comstock Lode.
G. F. Becker.
13. Topographical Effects of Faults and Land-slides.
G. F. Becker.
14. Preparation of Cyanin from Chinoline.
C. F. Chandler.
15. On the place of the Echeleididae in the System.
Theo. Gill.
- ✓ 16. On the existence in both Hemispheres of a terrestrial
dry zone and its cause.
A. Guyot.

17. On So-called Eruptive Serpentine.

T. Sterry Hunt

18. On a Spheridometer for measuring ^{the radii of curvature of} lenses of any Diameter.

Alfred M. Mayer.

✓ 19. On a Graphical method of representing the errors of a Screw.

Alfred M. Mayer.

20. On a Simple Experimental Demonstration of Ohm's law.

Alfred M. Mayer.

21. On the Fauna of the Puerco Eocene.

E. D. Cope.

22. On the Permian Genus *Diplocaulus*.

E. D. Cope.

23. On the Physical conditions under which Coal was formed.

J. S. Newberry.

24. Effect of Magnetism on Chemical Action.

Ira Remsen.

25. On Sinapic Acid.

Ira Remsen.

26. On the Total Solar Eclipse of May 6th, 1883.

Charles A. Young.

27. Physical and Geological character of the Sea-bottom off our coast, especially beneath the Gulf Stream.

A. E. Verrill.