## SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE. PUBLISHING THE OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

but nevertheless the particles are not of a

Friday, April 14, 1905.	Professor Wilhelm Ostwald at Harvard University
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Penetrating Radiation associated with X-rays: Professor Carl Barus 561	Scientific Notes and News
The Biological Laboratory of the Bureau of Fisheries at Woods Hole, Mass., Report of Work for the Summer of 1904: Professor Francis B. Sumner	MSS. intended for publication and books, etc., intended for review should be sent to the Editor of Science, Garrison-on-Hudson, N. Y.
Albatross Expedition to the Eastern Pacific: ALEXANDER AGASSIZ	PENETRATING RADIATION ASSOCIATED WITH THE X-RAYS.
Scientific Books:— Clerke's Problems in Astrophysics: Professor Edwin B. Frost. Lacroix on La Montaigne Pelée et ses eruptions: Ernest Howe	As the following investigation is made with the aid of nuclei, certain of their properties bearing on the present subject
Scientific Journals and Articles 578	will first have to be specified. Exhaustions
Societies and Academies:— The New York Academy of Sciences, Section of Astronomy, Physics and Chemistry: Professor C. C. Trowbridge. Section of Biology: Professor M. A. Bigelow. The Society for Experimental Biology and Medicine: Dr. William J. Gies. The Geological Society of Washington: Dr. Geo. Otis Smith	are preferably made at a pressure difference $(\delta p)$ just below the point (to be called fog limit) at which dust-free non-energized saturated air condenses without foreign nuclei. $\delta p$ depends on the particular apparatus used.
Discussion and Correspondence:— The Western Sierra Madre Mountains: DR. Edmund Otis Hovey. The Metric System again: DR. W. J. Spillman. New American Ostracoda: Arthur E. Beardsley 585	1. Fleeting Nuclei.—Let the X-radiation to which the dust-free air is exposed be relatively weak, so that the density of ionization may remain below a certain critical
Special Articles:— The Distribution of Fresh-Water Faunas as an Evidence of Drainage Modifications: Dr. Douglas Wilson Johnson 588	value. The nuclei observed on condensa- tion are then very small and they require a high order of exhaustion, approaching the
Current Notes on Meteorology:— Long-runge Weather Forecasts; The Low Relative Humidity of Winnipeg in Winter; Jelinek's Meteorological Instructions; Hann's Lehrbuch der Meteorologie; A New Rain Gauge; The Micro-barograph; Notes: PROFESSOR R. DEC. WARD	fog-limit of non-energized air. They are usually instantaneously generated (within a second) by the radiation, so that their number is definite independent of the time of exposure. They decay in a few seconds
A Comtemplated Magnetic Survey of the North Pacific Ocean by the Carnegie Insti- tution: Dr. L. A. BAUER 594	after the radiation ceases; <i>i. e.</i> , roughly to one half their number in two seconds, to one fifth in twenty seconds in the usual
The Elizabeth Thompson Science Fund: Pro- FESSOR CHARLES S. MINOT 596	exponential way. I fancy that these nuclei
Medals and Awards of the Royal Geograph-	are what most physicists would call ions;

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