

Field Museum of Natural History

Founded by Marshall Field, 1893
Roosevelt Road and Field Drive, Chicago

THE BOARD OF TRUSTEES

SEWELL L. AVERY	CHARLES A. MCCULLOCH
LEOPOLD E. BLOCK	WILLIAM H. MITCHELL
WILLIAM J. CHALMERS	GEORGE A. RICHARDSON
ALBERT B. DICK, JR.	THEODORE ROOSEVELT
JOSEPH N. FIELD	FRED W. SARGENT
MARSHALL FIELD	JAMES SIMPSON
STANLEY FIELD	SOLOMON A. SMITH
ALBERT W. HARRIS	ALBERT A. SPRAGUE
SAMUEL INSULL, JR.	SILAS H. STRAWN
JOHN P. WILSON	

OFFICERS

STANLEY FIELD.....	President
ALBERT A. SPRAGUE.....	First Vice-President
JAMES SIMPSON.....	Second Vice-President
ALBERT W. HARRIS.....	Third Vice-President
CLIFFORD C. GREGG.....	Director and Secretary
SOLOMON A. SMITH.....	Treasurer and Assistant Secretary

FIELD MUSEUM NEWS

CLIFFORD C. GREGG, *Director of the Museum*....Editor

CONTRIBUTING EDITORS

PAUL S. MARTIN.....	Chief Curator of Anthropology
B. E. DAHLGREN.....	Chief Curator of Botany
HENRY W. NICHOLS.....	Chief Curator of Geology
WILFRED H. OSGOOD.....	Chief Curator of Zoology
H. B. HARTE.....	Managing Editor

Field Museum is open every day of the year (except Christmas and New Year's Day) during the hours indicated below:

November, December, January, February	9 A.M. to 4 P.M.
March, April, September, October	9 A.M. to 5 P.M.
May, June, July, August	9 A.M. to 6 P.M.

Admission is free to Members on all days. Other adults are admitted free on Thursdays, Saturdays and Sundays; non-members pay 25 cents on other days. Children are admitted free on all days. Students and faculty members of educational institutions are admitted free any day upon presentation of credentials.

The Museum's natural history Library is open for reference daily except Saturday afternoon and Sunday.

Traveling exhibits are circulated in the schools of Chicago by the N. W. Harris Public School Extension Department of the Museum.

Lectures for schools, and special entertainments and tours for children at the Museum, are provided by the James Nelson and Anna Louise Raymond Foundation for Public School and Children's Lectures.

Announcements of free illustrated lectures for the public, and special lectures for Members of the Museum, will appear in FIELD MUSEUM NEWS.

A cafeteria in the Museum serves visitors. Rooms are provided for those bringing their lunches.

Chicago Motor Coach Company No. 26 buses go direct to the Museum.

Members are requested to inform the Museum promptly of changes of address.

MEMBERSHIP IN FIELD MUSEUM

Field Museum has several classes of Members. Benefactors give or devise \$100,000 or more. Contributors give or devise \$1,000 to \$100,000. Life Members give \$500; Non-Resident Life and Associate Members pay \$100; Non-Resident Associate Members pay \$50. All the above classes are exempt from dues. Sustaining Members contribute \$25 annually. After six years they become Associate Members. Annual Members contribute \$10 annually. Other memberships are Corporate, Honorary, Patron, and Corresponding, additions under these classifications being made by special action of the Board of Trustees.

Each Member, in all classes, is entitled to free admission to the Museum for himself, his family and house guests, and to two reserved seats for Museum lectures provided for Members. Subscription to FIELD MUSEUM NEWS is included with all memberships. The courtesies of every museum of note in the United States and Canada are extended to all Members of Field Museum. A Member may give his personal card to non-residents of Chicago, upon presentation of which they will be admitted to the Museum without charge. Further information about memberships will be sent on request.

BEQUESTS AND ENDOWMENTS

Bequests to Field Museum of Natural History may be made in securities, money, books or collections. They may, if desired, take the form of a memorial to a person or cause, named by the giver.

Contributions made within the taxable year not exceeding 15 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax purposes.

Endowments may be made to the Museum with the provision that an annuity be paid to the patron for life. These annuities are guaranteed against fluctuation in amount, and may reduce federal income taxes.

QUARTZ VARIETIES COLLECTED IN PACIFIC NORTHWEST

By ALBERT J. WALCOTT

A Field Museum expedition to Oregon, Washington and Wyoming was recently conducted by the writer to collect varieties of cryptocrystalline quartz. Specimens obtained will be used for a proposed exhibit devoted especially to this mineral, which was formed in volcanic rock formations of comparatively recent geological age. Various types were originally formed in rhyolite, basalt and volcanic ash, over which there is a series of lava flows.

In the rhyolite formation is found a unique occurrence of agate known locally as "thunder eggs." These are roughly spherical nodules varying in size from one inch to one foot in diameter. They have a compact hard wall of very fine grained material, highly silicified. An irregularly shaped hollow space inside is filled with chalcedony which forms different types of beautiful agates. As the exposed rock of the many relief structures crumbles away the nodules are released. Some lie on the surface, and some are covered to a depth of several feet, on the sage covered plains.

Agates of another kind, and geodes, originally formed in basalt, are also found closely associated with thunder eggs. Some of these include plume-like designs in deep brilliant reds, yellows, and greens. Such agates are known as plume agates, flower agates and moss agates. The color effects are due to the presence of iron compounds.

On this expedition Field Museum secured more than 300 specimens of high quality. Among them are: thunder eggs, red, green and yellow jaspers, chalcedony, chalcedony wood, jasper wood, opal wood, silicified teredo bored wood, silicified termite bored wood, silicified volcanic ash, plume agates, fluorescent chalcedony, opal containing cinabar, silicified algae, and black chalcedony. Also collected were a large piece of petrified log of beautiful red jasper, a log cast consisting of an outer band of fine blue chalcedony with a core of rock crystal quartz, and a large geode, about 160 pounds, lined with excellent quartz crystals.

Field Museum was fortunate in having the co-operation of Dr. H. C. Dake, editor of *The Mineralogist*, Portland, Oregon. Many other mineralogists rendered valuable assistance to the expedition.

RAYMOND FOUNDATION AIDS SCHOOL RADIO PROGRAM

By MARGARET M. CORNELL

Chief, James Nelson and Anna Louise Raymond Foundation

The James Nelson and Anna Louise Raymond Foundation of Field Museum is again co-operating with the Public School Broadcasting Council in presenting a series of science broadcasts. On October 4 at 1:30 o'clock, over station WJJD, a group of boys and several adults presented a sketch based on a visit to Field Museum and the bird sanctuary in Lincoln Park. This was supplemented on October 6 by a followup program at the Museum. Boys and girls, chosen to represent their respective schools, met at 11 A.M. and again at 2 P.M. in the Lecture Hall where an informal talk, "Birches," was given by a member of the Raymond Foundation staff. An exhibit of birch bark objects made by various tribes of Indians and Eskimos was so placed that the group could handle and observe each closely.

Questions were asked, and an unusually clear idea was obtained of what an upper grade child will do when he has actual ob-

jects for investigation before him. The items of greatest interest appeared to be the canoe and wigwam models, a mask, a Chippewa woman's work-bag trimmed with porcupine quills, and a bark sheath holding a knife carrying five notches at the base of the blade.

After the meeting in the Lecture Hall the group was taken to exhibition halls in which the uses of the birch tree are illustrated.

MUSEUM GEOLOGIST ASSEMBLES NOTABLE COLLECTION

As a result of a series of expeditions during the past few years, the last of which was concluded with the return in October of Mr. Sharat K. Roy, Curator of Geology, Field Museum now possesses what is probably the most comprehensive of all collections in America illustrating phenomena embraced in the subject of physical geology.

Since June, Mr. Roy, as leader of the Sewell Avery Geological Expedition, has been collecting rocks illustrating the work of various dynamic agents, and specimens illustrating structural features of the outer part of the earth. In addition, he collected an excellent representation of semi-precious minerals such as beryl, jasper, garnet, epidote, and tourmaline. The fields worked included the mountains of Colorado and South Dakota, and various localities in New York State and New England. Mr. Roy was in the Cape Cod region during the recent disastrous hurricane, but escaped without injury to himself or damage to the collections.

Distinguished Visitors

Among recent distinguished visitors received at Field Museum were Mr. V. F. Fisher, ethnologist at Auckland Museum, Auckland, New Zealand; Dr. Paul Wallace Gregory of the College of Agriculture, University of California; Dr. Walter Granger, of the American Museum of Natural History, New York; Mr. Alvin Seale, Director of Steinhart Aquarium, San Francisco, and Mr. Charles E. Jackson, Acting Commissioner, Bureau of Fisheries, Washington, D. C.

Gifts to the Museum

Following is a list of some of the principal gifts received during the last month:

From Abbé Henri Breuil—13 negatives of views at Cap Blanc, Dordogne, France; from Irving Knobloch—98 herbarium specimens, Mexico; from Dr. Earl E. Sherff—11 herbarium specimens, Hawaii, and 133 negatives of type specimens of plants; from Rev. Brother H. Daniel—75 herbarium specimens, Colombia; from Miss Ruth Patrick, Miss Joan Bader, Dr. Fred A. Barkley, and Harold C. Bold—specimens of algae; from Centro Nacional de Agricultura—59 herbarium specimens, Costa Rica; from William E. Menzel—4 specimens pyrite concretions and a specimen of chalcedony concretion, Kansas and Wyoming; from Professor L. A. Higley—9 colored lantern slides and six photographs; from William B. Hilton and G. Bradley Harris—66 fossil plants, Colorado; from Miss Bertha Gordon—one specimen of gillespite and 4 volcanic splatter bombs, California; from University of Chicago—8,424 fishes, 11 lots of invertebrates, and 5 mammals; from Dr. Hurst Shoemaker—248 fishes and 14 lots of invertebrates; from Stanley Field—a ruby-throated hummingbird, Illinois; from Chicago Zoological Society—a giant eland, a Cook's boa, and a paca; from Lincoln Park Zoo—a guereza monkey and a Javanese water snake; from Dr. Henry Field—19 toads, newts, and snakes, and 3 geological specimens, England, Norway, and Sweden; from Clark W. Walter—12 minerals, 3 fossils, and 1,200 shells; from Dr. B. H. Hawkins—a western diamond-back rattlesnake, Arkansas; from J. M. Orozco—6 fly larvae, Costa Rica; from Philip Clark—4 snakes, Malaysia; from R. A. Schneider—a turtle and a snake, Illinois; from C. M. Barber—4 snakes, 3 frogs, and a turtle, Arkansas; from Dr. Wolfgang Amschler—543 beetles, Austria; from Dr. and Mrs. Paul Rudnick—2 pin rattle snakes, Texas; from Eugene G. F. Falck—2 specimens of polygyra, Indiana; from Miss Jean Nielsen—a juvenile blue racer; from Miss Claire Nemece—a crayfish, Illinois; and valuable books for the Library from Colonel Theodore Roosevelt, Karl P. Schmidt, Dr. Francis Drouet, and Dr. D. E. W. Lazell.



Walcott, Albert J. 1938. "Quartz Varieties Collected in Pacific Northwest." *Field Museum news* 9(11), 2-2.

View This Item Online: <https://www.biodiversitylibrary.org/item/25714>

Permalink: <https://www.biodiversitylibrary.org/partpdf/364495>

Holding Institution

Field Museum of Natural History Library

Sponsored by

University of Illinois Urbana-Champaign

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the Chicago Field Museum.
For information contact dcc@library.uiuc.edu.

Rights Holder: Field Museum of Natural History

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.