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# ANNUAL REPORT

*1958*

*Chicago Natural History Museum*

NEW YORK

NEW YORK





GOLDEN ANNIVERSARY YEAR  
OF STANLEY FIELD AS  
PRESIDENT OF THE MUSEUM







STANLEY FIELD

PRESIDENT OF THE MUSEUM FOR 50 YEARS

# Report of the Director

*to the*

## Board of Trustees

*for the year 1958*



CHICAGO NATURAL HISTORY MUSEUM

1959

PRINTED IN THE UNITED STATES OF AMERICA  
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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1958

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GRANT PARK AND CHICAGO'S SKYLINE FROM

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FORMERLY FIELD MUSEUM OF NATURAL HISTORY  
ROOSEVELT ROAD AND LAKE SHORE DRIVE



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ON NEXT PAGE

THE MUSEUM'S GREAT CENTRAL HALL

NAMED IN HONOR OF  
STANLEY FIELD  
PRESIDENT OF THE MUSEUM  
SINCE 1909



# Annual Report

*of the Director*

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1958.

From many points of view, the year was one of outstanding accomplishment. The completion of remounting the *Brontosaurus* in Ernest R. Graham Hall, a specimen that had been on display, although incomplete, since the opening of this building in 1921, marked a distinct achievement (see page 64). The skeleton of this huge beast, 72 feet in length, is an imposing exhibit that dominates the hall (Hall 38).

The acquisition of the world-famous Fuller Collection of ethnological objects from the South Seas has made us second to none in collections from Polynesia as well as from Melanesia (see pages 28 and 50). The great service to science and to the Museum rendered by Captain A. W. F. Fuller of London has been recognized by the Board of Trustees in a resolution electing Captain Fuller a Patron of the Museum (see page 128). The work of Curator Roland W. Force of our own staff (see page 46) in documenting the collection and completing all arrangements for its shipment to the Museum, where it arrived in perfect condition, was noted by the Chicago Junior Association of Commerce and Industry by designating Curator Force one of the ten outstanding young men of Chicago in 1958. It is an interesting coincidence that on October 3, while

Curator Force was attending the luncheon in honor of Chicago's ten outstanding young men, he was also receiving a degree of Doctor of Philosophy *in absentia* from Stanford University.

Several important collections for the Division of Lower Invertebrates were acquired during the year. Notable among these is the Yarrington Collection presented to the Museum by the estate of the late Dr. C. W. Yarrington of Gary, Indiana (see page 73). Dr. Yarrington's interest was primarily in the beauty and variety of shells, and the special exhibit at the Museum after the receipt of this choice collection attracted wide and favorable comment.

The outstanding new field-project of the year was the Conover Peru Expedition conducted by Emmet R. Blake, Curator of Birds (see page 67) and financed by the fund established by the late Boardman Conover, a Trustee and Research Associate of the Museum. This expedition continued the type of research that had been so dear to the heart of Mr. Conover and was unusually successful in the number, variety, and rarity of the specimens that were returned to<sup>2</sup> the Museum.

Financial resources of the Museum were considerably augmented through the co-operation and understanding of the Chicago Park District Commissioners, who after careful study increased the amount of funds to be made available to the museums located in the Park District. While the effect of this wise provision will not be felt until 1959, it did permit the Board of Trustees of the Museum to revise the salary schedules of the scientific staff in order to reward more adequately the services of the loyal and accomplished scientists who are responsible for the prominence of this institution in its fields of research and exhibition.

Stanley Field, President of the Museum, wrote letters during the year to the Members of the Museum informing them of its financial needs. As a result, more than \$40,000 was added to the Museum endowment through fees of Life or Associate Members, whose helpfulness and generosity are deeply appreciated.

The death of Albert W. Harris, of Chicago, on November 9 was noted with deep regret. Mr. Harris, a Benefactor of the Museum (see pages 25 and 128), had served for twenty-one years on the Board of Trustees, from which he resigned in 1941. The Department of the N. W. Harris Public School Extension of the Museum, founded by his father, benefited greatly by his gifts of more than a quarter million dollars and has grown to a position of considerable importance in the schools of Chicago (see page 24). The services of Mr. Harris were many, and they played a prominent part in the development of Chicago Natural History Museum.



## TRUSTEES AND OFFICERS

At its annual meeting in January the Board of Trustees elected Stanley Field to serve as President of the Museum for his 50th consecutive year. Dedicated service in a responsible position as head of an institution for so long a time naturally attracted wide attention, and the newspapers of Chicago were generous in paying tribute to Mr. Field in their editorial comments as well as in their news columns (see page 95). On March 4, 1958, on the occasion of the celebration of the 121st anniversary of the City of Chicago, Mayor Richard J. Daley presented to Mr. Field an official "Chicago Medal of Merit" in recognition of his leadership and unselfish service in behalf of the people of the community (see below).

The Board of Trustees arranged a dinner in honor of Mr. Field, at which he was presented with an engraved plaque testifying to the action of the Board of Trustees in naming the Museum's remarkable collection of plant models "The Stanley Field Collection of Plant Models" (see page 56). The designation of this collection, which is unrivaled by any institution in the world, is particularly apt because Mr. Field himself established the plant-reproduction fund in 1916 and had carried its entire support for a number of years. The staff of the Museum presented Mr. Field with "The Man and the Museum," a volume reminiscent of the changes that have occurred at the Museum under Mr. Field's leadership.

At the annual meeting of the Board of Trustees, Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field and Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary John R. Millar were re-elected to the positions that they had previously held on the Museum's Board of Trustees.



## THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

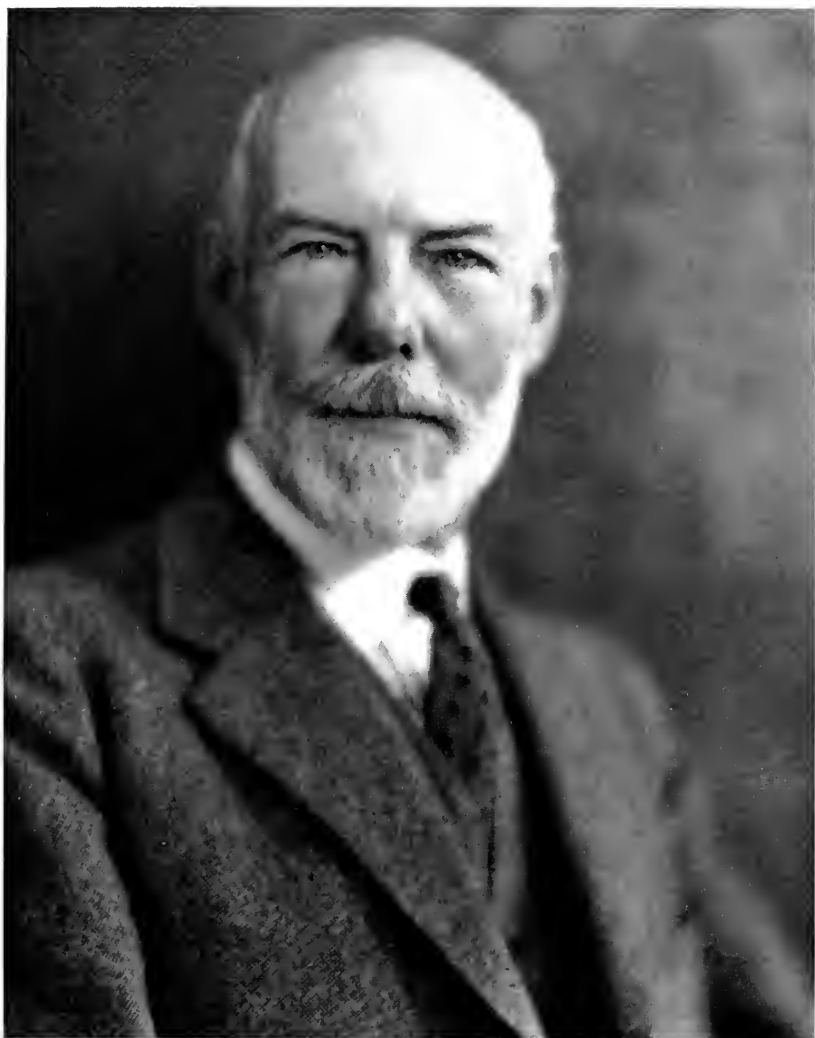
The circulation of Museum exhibits among Chicago's public schools and the many other schools and institutions in the city that have been accredited for lending service continued through the year in accordance with routine procedures. These traveling exhibits, which are installed in portable cases of standard sizes, have been especially planned and prepared over the years in the workshop of the department as supplements to the science program of the schools of Chicago.

Five hundred and seventeen schools and other institutions were being served by the department at the beginning of the year, when each held on loan two of the portable exhibits. Exchanges were made at two-week intervals during the months when school was in session so that within the year each school received 34 different exhibits. Pick-up for summer storage in the Museum began on June 5 and ended on June 20, and on September 8 deliveries were resumed for the school year. The two departmental trucks were active during 167 days and traveled 11,057 miles in delivering, exchanging, and picking up the exhibits. At the close of 1958 the circulation list numbered 516 (service to four schools had been discontinued and three schools had been added to the list).

Damage to the portable cases in circulation was light. Fifteen had to be withdrawn temporarily for repairs, but in only four was there any damage to the installation. Following the summer check-up in the Museum, maintenance repairs were made on an additional 348 of the portable cases, of which 56 required some restoration of the installed exhibit material.

The department made 35 nonroutine loans to various schools, garden clubs, and television studios and to such institutions as the American Indian Center and the Boy Scouts of America. These special loans were of individually selected materials from the department's study collections (bird and mammal skins, mounted animals, insects, shells, soil samples, rocks and fossils, and bird nests) or of specially requested exhibits available in the standard portable cases provided by the department.

There were several trips into the field to make color notes and to gather specimens essential to preparation or renovation of the exhibits worked on during the year. All were one-day excursions within the environs of Chicago. Five exhibits of the marsh marigold were prepared and installed in portable cases for circulation. Each of the new exhibits consists of a replica of the plant in natural size and enlarged models of the flower and seed capsules.



ALBERT W. HARRIS  
1867-1958

TRUSTEE FROM 1920 TO 1941 AND  
A VICE-PRESIDENT FROM 1933 TO 1941  
BENEFACTOR OF THE MUSEUM

GENEROUS CONTRIBUTOR TO  
THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

## SPECIAL EXHIBITS

In the operation of a museum, special exhibits prepared by the regular staff present a special problem. If the exhibit is to be worth while, much time must be devoted to its planning and execution. Yet a museum can afford to spend only limited amounts of staff-time and funds on exhibits that are not of lasting importance. Perhaps the finest tribute that can be given a temporary exhibit is its retention for an extended period of time. Two of the special exhibits in 1958 have this distinction. An exhibit designed to answer the question "What Is Primitive Art?" was on display in Stanley Field Hall from July through September and then was moved to a ground-floor corridor adjacent to Hall E (Africa), where it continues to give a lucid answer to all who ask the same question (see page 52). Similarly, the major part of an exhibit of shells from the collection of the late Dr. C. W. Yarrington will be placed for continuing exhibition in Hall M (Lower Invertebrates) at the conclusion of its display in Stanley Field Hall in January, 1959 (see page 76).

For the first time the Museum was host to the annual orchid show sponsored by the Illinois Orchid Society in October (page 56). For this, living orchids were displayed in an unglazed aluminum greenhouse frame lent by the manufacturer and erected in Stanley Field Hall. Corollary to the large showing of living orchids was one of specimens from the Herbarium of the Museum to illustrate historic or taxonomic aspects of the orchid family of plants, with standard reference works and richly illustrated books on the subject from the Museum's botanical library. Paintings by Caroline Van Evera of Indian types of Central and South America and market scenes were exhibited in November, and eighteen of those dealing with Guatemala Indians are now in the permanent collections of the Museum (see page 28). "Impressions of Iran," a collection of photographs of Iranian life, architecture, and landscapes, was shown during September in Hall K in relation to our Babylonian exhibits.

The Thirteenth Chicago International Exhibition of Nature Photography, co-sponsored by the Nature Camera Club of Chicago, was a major attraction in February, and the award-winning entries in the Eighth Annual Amateur Handcrafted Gem and Jewelry Competitive Exhibition sponsored by the Chicago Lapidary Club were equally attractive to visitors in June. Drawings by students of the School of the Art Institute of Chicago, whose classes meet in the Museum, were exhibited in May (see page 90). The fresh, imaginative interpretation of Museum exhibits by the younger of these students is always a joy to visitors.



JAPANESE MORNING STAR

A SHELL FROM THE  
YARRINGTON COLLECTION

SPECIAL EXHIBIT  
IN STANLEY FIELD HALL

## GIFTS TO THE MUSEUM

The Museum received during the year generous gifts from the following donors for a number of its established Funds: Sterling Morton, \$15,000 for the Sterling Morton Endowment Fund; Miss Margaret B. Conover, \$863.75 for the Conover Game-bird Fund (established by her brother, the late Boardman Conover, Trustee and Research Associate—see page 22); C. Suydam Cutting (an Honorary Member of the Museum), \$750 for the C. Suydam Cutting Fund; Dr. Maurice L. Richardson, \$750 for the Maurice L. Richardson Paleontological Fund; Mrs. Katherine Field Rodman and T. Clifford Rodman, \$250 each for the Stanley Field Endowment Fund; Mrs. Mary Elizabeth Clyborne, \$200 for the Harry Vearn and Mary Elizabeth Clyborne Fund; and Dr. Clifford C. Gregg, \$200 for the Commander Frank V. Gregg Memorial Fund.

Additions to other Special Funds were in the following amounts: \$7,476.96 from the estate of the late Stewart J. Walpole for the Stewart J. Walpole Endowment Fund; \$12,690 from the estate of the late Miss Shirley Farr for the Shirley Farr Bequest Fund; and \$707.02 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettle Babcock Fund (for use of Special Funds in 1958 see page 116).

Stanley Field, President of the Museum, gave an additional \$43,600 for endowment. During the year an additional \$3,304.58 was received from Lester Armour, Joseph N. Field, William H. Mitchell, John T. Pirie, Jr., and Robert Trier for the Fuller Collection Purchase Fund (see page 21), which was established in 1957 (see Annual Report 1957, page 29). Previous donors to the Fuller Collection Purchase Fund included George A. Bates, Wm. McCormick Blair, Walther Buchen, Walter J. Cummings, Joseph N. Field, Marshall Field, Jr., Henry P. Isham, Hughston M. McBain, William H. Mitchell, Sterling Morton, Clarence B. Randall, John G. Searle, Solomon A. Smith, Louis Ware, and John P. Wilson (see illustration on facing page).

DeWitt Van Evera gave \$5,600 for the purchase of paintings of Guatemala Indians, Sidney D. Gamble gave stock valued at \$2,548.26 to assist in the publication of *A Bibliography of Birds* (by Reuben Myron Strong), Winston Elting and James R. Getz each contributed \$300 for an anthropological field trip to the coastal region of Lake Superior, the Oriental Institute of the University of Chicago gave \$250 toward the publication of *Prehistoric Men* (by Robert J. Braidwood), and Samuel Insull, Jr., gave \$100 in memory of the late Norman Field. Other gifts came from George A.



PRESIDENT STANLEY FIELD (AT RIGHT)  
AND DIRECTOR CLIFFORD C. GREGG  
LOOK OVER THE FULLER COLLECTION

Bates, Peder A. Christensen, Mr. and Mrs. Gaylord Donnelley, Harry Hoogstraal, L. F. Hawley, Hubert and Wilma Silberman Charitable Foundation, John Plain Foundation, Donald R. McLennan, Jr., Mrs. Langdon Pearce, Jacob C. Pratt, Jr., Elmer H. Schultz, Mr. and Mrs. Reuben M. Schutz, South Suburban Friends Meeting, Shell Development Company, and Mrs. Richard Zickman.

Contributors elected by the Board of Trustees are: Lester Armour, Dr. Jeanne S. Schwengel, Donald R. Thurow, DeWitt Van Evera, and (posthumously) Dr. C. W. Yarrington (for roster of Contributors see page 129). Gifts of materials received during the year are listed at the end of this Report (see page 118) and under the heading "Accessions" in the reports of the scientific departments (see pages 50, 58, 63, and 71).

Friends of the late Karl P. Schmidt, Curator Emeritus of Zoology, established a Fund in his name, the income from which is to be used in assisting scholars to study at the Museum (see March and July issues, 1958, of Chicago Natural History Museum *Bulletin*). Awards will be made by the Trustees of the Fund, who have turned over to the Museum for investment purposes the sum of \$6,125 (see also Annual Report 1957, pages 30 and 33).

## LECTURE PROGRAMS FOR ADULTS

The 109th and 110th illustrated lecture series in the Museum program were presented during the year in James Simpson Theatre of the Museum. These series drew a total attendance of 17,042 persons, slightly more than the attendance of the previous year. As usual, many letters of thanks for these lectures, which are presented free of charge through the provision of the Edward E. Ayer Lecture Foundation, were received. So also were many letters of comment and commendation. A typical letter states, in part: "For ten years I have been attending the Saturday afternoon lecture series and have been delighted with the top-caliber speakers. I can appreciate how much effort goes into setting up a well-balanced and visually effective program. I think the enthusiasm and loyalty of the audience reflect the success of these programs and that you can be well satisfied that all the time and effort and planning that go into the series are worthwhile." The Museum will continue in its efforts to secure the best speakers available and to present to its audiences subject-matter of unusual interest. These popular series of free lecture-programs are held on Saturday afternoons in March and April and in October and November.



JAMES NELSON AND ANNA LOUISE RAYMOND  
FOUNDATION FOR PUBLIC SCHOOL AND  
CHILDREN'S LECTURES

The Raymond Foundation continued to develop its pattern of programs for (1) organized groups of children and students and for (2) individual children and adults as worked out in past years. Particularly have we stressed programs that would help as many groups and individuals as possible with our limited staff of seven.

Work with organized groups continued to be the larger part of the program, although Raymond Foundation could not possibly take care of all organized groups that came to the Museum. For instance, 4,940 groups with 209,883 children and students registered in the Museum in 1958. Not all of these needed help from Raymond Foundation, but many did. Raymond Foundation helped 2,464 groups with 97,822 children and 59 groups with 1,737 adult students, making a total of 2,523 organized groups with 99,559 children and students of all ages. A waiting list of 297 groups of about 9,715 children and students was established in case of cancellations in programs and tours.

The peak load for organized groups of school children was reached in the spring months of April and May and the fall months of October and November. However, other months began to have larger attendance; in fact, Raymond Foundation broke all previous records for work with children in February, March, April, May, June, and October. By thus spreading the programs for groups into more months, Raymond Foundation was able to take care of about 22,500 more children in the Museum this year than in 1957 without lowering the standards of work and programs.

The need has grown for programs for a persistent but small number of people (both adults and children) who are sincerely interested in seeing the Museum individually or with small family groups. For these individuals we offered (1) the daily public tours (except Sundays)—282 tours with 4,232 persons, (2) miscellaneous tours for adults—24 tours with 551 persons, and (3) motion-picture programs for children—32 programs with 22,242 children. We also offered the Museum film "Through These Doors" (39 showings, attendance 4,407) and the Museum Journey series for children (4 different Journeys in a year, 1,238 completed in 1958). This made a total of 9,424 adults in 351 programs and 33,480 children in 361 programs, or a total of 32,904 individuals in 387 programs. (The lecture series for adults given on Saturday afternoons in spring and fall are not a function of Raymond Foundation—see page 30.)

Figures in the summary of Raymond Foundation activities for 1958 (see page 35) show an overall increase of more than 10,000 above the 1957 figures. It should be noted that all of this work took place in the Museum. Extension services, which accounted for more than 12,000 students in 1957, were discontinued because of the increased demand for staff services within the Museum.

In January an unusual request came from the Glencoe (Illinois) Park District for a series of Saturday programs that would give their group a background of information on the out-of-doors in preparation for field trips scheduled for spring. Five programs were given, with an attendance of about 240 for the sessions (most of the students attended all of the programs). For other organized groups the Museum offered, in July and August, a film program "Trailside Adventures," in which 13 groups with 555 children participated.

The motion-picture programs for children continued on Saturday mornings in March and April (8 programs with 8,312 present), on Thursday mornings in July and August (12 programs with 10,401 present), and on Saturday mornings in October and November (9 programs with 3,529 present). At the spring and fall programs our series of Museum Stories (see page 102) were distributed to the children: "Bible Animals" (8 stories by Maryl Andre) and "Plants the American Indians Used" (9 stories by Marie Svoboda).

In connection with the spring series of motion pictures the Museum inaugurated "Honor Days" for recognition of different organizations of young people. On each Honor Day an appropriate program was planned, following which the boys and girls were directed to Museum exhibits related to the subject. For example, on Cub Scout Day (March 8), when the subject was "Exploring Alaska," approximately 900 Cub Scouts, along with 300 other boys and girls, saw the movie and then explored our exhibits on Alaska.

On Girl Scout Day (March 15, with approximately 1,100 Girl Scouts present), a special skit was staged by Girl Scout Troop No. 38 of Chicago. Brownie Scout Day (April 26) proved the need for programs for these young Girl Scouts—the puppet show was given three times to accommodate 3,200, and the Museum was a sea of little Brownies who had come from as far as a hundred miles to see our program (sometimes a program succeeds so well that it presents difficulties: it did that day—there was not enough room for the children in the lunchrooms or in the Theatre). On Camp Fire Girl Day (March 22) approximately 430 Camp Fire Girls attended. Other Honor Days were: Chicago Boys' Clubs Day (March 29), with approximately 300 boys from the Chicago Boys' Clubs along with more than 400 other boys and girls; Boy Scout Day (April 12),



ON CUB SCOUT DAY AT THE MUSEUM  
THE MOVIE WAS ABOUT ALASKA

with about 100 Boy Scouts and about 220 other boys and girls; and YMCA Day (April 19), with approximately 480 YMCA fathers and sons along with 200 other children.

Thirty-two Girl Scout Museum Aides were trained to help with both Girl Scout Day and Brownie Scout Day. These girls did a remarkable service in taking the visiting girls on tours of the Museum (97 tours with 2,200 persons). Sixteen Camp Fire Girl Aides were trained to help with their girls on Camp Fire Girl Day. They directed their girls to the Museum exhibits that correlated with their theme for 1958. We are grateful to the Aides for their help.

More and more frequently requests are made for programs for leaders—these are often for teachers-in-training in universities and colleges or for teachers' meetings in school. Teachers and leaders who are better trained in use of museums and community resources are worth all the time and effort we put into such assistance. An unusual program for leaders was our workshop for Cub Scout Mothers called "The Birds' Christmas Tree," which showed how to use the family Christmas tree as a feeding station for winter birds.

Museum Journeys were continued for children to take by themselves or with their families at the time during Museum hours most convenient for them. In January 155 children completed the 1957-58 Winter Journey (no. 12), "Animals in Winter." The Spring Journey (no. 13), "Animals of the Bible," totaled 530 completed; the Summer Journey (no. 14), "Nature Around Us," totaled 217 completed; the Fall Journey (no. 15), "Plants the Indians Used," totaled 283 completed; and the Winter Journey (no. 16), "Chicago—Winter Resort for Birds" (which carried over into 1959) totaled 53 completed in 1958.

Awards were presented in the spring and fall to those boys and girls who had successfully completed Museum Journeys as follows: 38 completed their first four Journeys and became Museum Travelers; 13 completed a second group of four Journeys and became Museum Adventurers; and 13 completed a third group of four Journeys and became Museum Explorers. Beginning with the Summer Journey, each Journey was made available for three months and thus, with four Journeys presented a year, there is always a Journey scheduled—1,238 Journeys were completed this year.

For the first time Raymond Foundation had the help of an Antioch College student (see page 90), Miss Marcia Dunwell, who gave able assistance in April, May, and June with the programs in the Museum for students. Her duties ranged from checking coats and lunches and directing the students to their regions of study in the Museum halls to helping with the actual programs.

RAYMOND FOUNDATION ATTENDANCE FOR 1958

1. WORK WITH CHILDREN IN THE MUSEUM

<i>A. With school groups</i>	Groups	Individuals	Groups	Individuals
Chicago public . . . . .	799	33,474		
Chicago parochial . . . . .	58	2,167		
Chicago private . . . . .	44	1,239		
Suburban public . . . . .	1,159	41,826		
Suburban parochial . . . . .	26	991		
Suburban private . . . . .	16	467		
Out-of-state . . . . .	171	7,363		
Total for school programs . . . . .	<u>2,273</u>	<u>87,527</u>		
 <i>B. With other children's groups</i>				
Tours only . . . . .	157	7,442		
Special programs . . . . .	34	2,853		
Journeys . . . . .		1,238		
Children's movies . . . . .	32	22,242		
Total for other children's programs . . . . .	<u>223</u>	<u>33,775</u>		
TOTAL WORK WITH CHILDREN . . . . .			2,496	121,302

2. WORK WITH ADULTS

<i>A. Tours only</i>				
Colleges . . . . .	40	1,135		
Public tours . . . . .	282	4,232		
Miscellaneous . . . . .	24	551		
Total tours . . . . .	<u>346</u>	<u>5,918</u>		
 <i>B. Special programs</i>				
Colleges . . . . .	19	602		
Miscellaneous . . . . .	45	4,641		
Total special programs . . . . .	<u>64</u>	<u>5,243</u>		
TOTAL WORK WITH ADULTS . . . . .			<u>410</u>	<u>11,161</u>
GRAND TOTAL FOR RAYMOND FOUNDATION WORK . . . . .			2,906	132,463

## MEMBERS' NIGHT

Scheduling Members' Night in the spring rather than in the fall was well received by the Museum's Members and guests. Almost 1,300 were present on April 18 to view the material on exhibition and to visit the workrooms and laboratories where members of the staff welcomed them. Specially featured were the reinstalled mineralogical exhibits, the completed fossil skeleton of *Brontosaurus*, a zoological exhibit showing the beauty of birds rather than their taxonomic classification or ecology, and the series of synoptic exhibits giving a comprehensive view of the animal kingdom. Refreshments were served in Stanley Field Hall during the evening.

## MEMBERSHIP

Membership in Chicago Natural History Museum is a splendid opportunity to contribute to the advancement of scientific discovery and education. Membership dues and contributions to the Museum assist greatly in financing our research and educational efforts, and I wish to express the thanks of the Museum to those Members and donors whose loyal support and encouragement have furthered our achievements. Our membership rolls at the end of 1958 carried 5,722 names, an increase of more than 200 during the year. The increase of 88 Life Members and 186 Associate Members surpasses gains in those categories for many years (see page 22). The names of all Members of the Museum during 1958 are listed at the end of this Report (see also page 30 for names of Contributors).

## ATTENDANCE

Attendance at the Museum declined somewhat during the year, especially in the first six months. The trend was reversed in July, and more than half of the loss was restored. Total attendance was 1,049,401 (see page 113). By contrast, the paid attendance of 161,593 exceeded that of the previous year by 21,759, being 15.4 per cent of our visitors compared with 12.7 per cent of our visitors in the previous year. This change was brought about by increased attendance during the week and declining attendance on Saturday and Sunday when no admission is charged. The figures add further emphasis to the transportation problem of the Museum on Sundays, when the people of Chicago find it difficult and tedious to reach the Museum by bus.



THE CHILDREN ENJOYED IT TOO

MEMBERS' NIGHT  
AT THE MUSEUM

## STAFF OF THE MUSEUM

Three Research Associates were elected during the year by the Board of Trustees: Harry Hoogstraal (formerly Field Associate in the Department of Zoology), Research Associate in the Division of Insects; Dr. Rogers McVaugh, Research Associate in the Division of Vascular Plants; and Erik N. Kjellesvig-Waering, Research Associate in the Division of Fossil Invertebrates. Two Associates were appointed: Harry G. Nelson, Associate in the Division of Insects, and D. S. Rabor (formerly Field Associate in the Department of Zoology), Associate in the Division of Birds. Other staff appointments during the year were: Mrs. Dorothy Gibson, Secretary, Department of Botany; Miss Marion A. Kratky, Secretary, Book Shop; Miss Patricia McAfee, Assistant, Public Relations; André Nitecki, Cataloguer in the Library; Mrs. Gloria Pagano (in charge) and Mrs. Mary H. Ryan, Assistant, Division of Memberships; and Bertram G. Woodland, Associate Curator, Division of Petrology.

Allen S. Liss, Assistant in the Department of Anthropology, was advanced to Custodian of Collections, and Alfredo Evangelista was awarded a Thomas J. Dee Fellowship in Anthropology following the resignation of Evett D. Hester (Annual Report 1954, page 28). Other staff resignations during the year were: Dr. Francis Drouet, Curator, Cryptogamic Herbarium; Miss Mary Felsenheld, Assistant, Division of Memberships; Mrs. Marjorie Furr, Artist, Department of Botany; Miss Marguerite Grauel, Cashier, Division of Accounting; Miss Marilyn Jaskiewicz, Secretary, Department of Botany; Miss Louise Jones, Secretary, Book Shop; Miss Jane Rockwell, Associate, Public Relations; Dr. Julian A. Steyermark, Curator, Phanerogamic Herbarium; and Miss Marjorie A. West, Library. Frank C. Jensik became Captain of the Guard following the death on July 9 of Captain Matthew S. Moroney.

The death on December 13 of William J. Gerhard, Curator Emeritus of the Division of Insects, brought an end to a long career of devoted service at the Museum. Mr. Gerhard assumed charge of the Division of Entomology in 1901 and remained continuously in charge until January 1, 1951, when at his own request he was made Curator Emeritus "in order that one of those fine young men may become Curator." Mr. Gerhard was the only member of the Museum staff whose service to the Museum predated that of President Stanley Field.

I also record with deep regret the death on February 20 of Miss Pearle Bilinske, head of the Division of Memberships, who faithfully served the Museum for thirty-five years; the death on April 9 of



Julius Friesser, pensioner, staff taxidermist for forty-four years; the death on October 31 of Martin Marx, a guard; the death on December 19 of Edward McCue, a guard; the death on October 5 of Timothy Reidy, pensioner, former Sergeant of the Guard; and the death on October 18 of Adelbert L. Stebbins, pensioner, former Auditor in the Division of Accounting.

The Museum thanks its volunteer workers for help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Howard Anderson, James Bacon, Miss Lynn Beach, Walther H. Buchen, David Collier, Stephen Collings, Teddy Czyzewicz, Miss Margot Donald, Michael Duever, Mrs. Patricia R. Falkenburg, John Gedgaudas, Mrs. Dorothy Gould, William Herbert, Charles Knowles, Mrs. Judith Lownes, Mrs. Glen Nellis, Stirling Nellis, Thomas Olechowski, Philip Porzel, Miss Grace Ramke, Richard Saunders, Wayne Serven, Miss Mimi Simons, and Mrs. Adele Woods.

The University of Cincinnati at its annual commencement held on June 6 conferred the honorary degree of Doctor of Laws on Clifford C. Gregg, Director of the Museum. Dr. Gregg received the degree of Bachelor of Science from that university in 1917.

## THE BOOK SHOP

This has been the best year for the Museum's Book Shop since its beginning in 1938. It was possible, because of enlarged and remodeled quarters, to offer more efficient service as well as a wider selection of books and other merchandise. Sales were \$196,890.10, a marked increase over sales of \$141,109.36 in 1957, which was a record year. The highest sales for a single day and for a single week were also achieved in 1958, when sales of \$2,024.44 on Saturday, May 3, brought total sales for the week to \$6,307.27. It is to be noted that much of the success of the Book Shop is the result of unusual items that often are available through the creativeness of the Museum staff. At the end of the year eight more of the popular Museum Storybooks (see page 102), written for children by members of Raymond Foundation staff, were on sale. The Museum is happy to express its appreciation to the William Wrigley Company for continued co-operation through its program of educational advertising of books and other natural-history material that are for sale in the Book Shop. This year "Bird Fun Mobile" was advertised, resulting in sales of more than 30,000 units.

## EXPEDITIONS AND FIELD TRIPS IN 1958

The Museum conducted ten expeditions and field trips in 1958. Their work is described in this Report under the headings of the scientific departments (see page references below):

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 46); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 43).

DEPARTMENT OF BOTANY—*Northern Great Plains Botanical Field Trip* (Dr. John W. Thieret, Curator of Economic Botany, see page 54).

DEPARTMENT OF GEOLOGY—*Indiana Paleontological Field Trips* (Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, see page 59); *Wyoming Paleontological Expedition* (William D. Turnbull, Assistant Curator of Fossil Mammals, see page 60).

DEPARTMENT OF ZOOLOGY—*Colombia Zoological Expedition* (Kjell von Sneider, see page 67); *Conover Peru Expedition* (Emmet R. Blake, Curator of Birds, see page 67); *Co-operative Field Work with United States Fish and Wildlife Service in the Equatorial Atlantic* (Loren P. Woods, Curator of Fishes, see page 67); *Malaya Field Trip* (D. Dwight Davis, Curator of Vertebrate Anatomy, see page 68); *Southern Illinois Field Trip* (Henry S. Dybas, Associate Curator of Insects, see page 67). See illustrations on pages 45 and 69.



Clay dog

Colima  
Mexico

Hall 8

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY



# Department of Anthropology

## Research and Expeditions

Under the leadership of Dr. Paul S. Martin, Chief Curator of Anthropology, the Southwest Archaeological Expedition (see page 40) spent four months digging a large ruin in Arizona. Dr. Martin was assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology, by Howard Anderson, who had charge of classifying pottery, and by Michael Cornog, Emerson Mulford, Roland Strassburger, and Mark Winter. Purposes of archaeological research in the area are numerous, but the major one is an attempt to determine whether the modern Hopi or Zuni Indians are the heirs to the Mogollon culture that has been under study for more than fifteen years.

The large site that was excavated is located one mile east of St. Johns, Arizona, on a hill overlooking the east bank of the Little Colorado River. The ruin is owned by Mark Davis of St. Johns, who graciously gave the Museum permission to excavate the site and to bring to Chicago for study and exhibition all materials recovered by the expedition.

Excavation demonstrated that the pueblo was fairly large, consisting of fifty rooms, the floors of which rested on bedrock (no earlier structures were found). Most of the rooms were shallow with walls yet standing that varied in height from ten inches to about six feet. Although most of the pueblo had been only one story high (with ceilings perhaps six feet high), some sections of the pueblo had been two stories high.

There were no outside doorways, but access to each room was by a hatchway in the roof. The hatch, which in some instances consisted of a stone jamb (that is, a single large slab of stone pierced by an oval or rectangular hole some 18 inches across and wide enough to permit a person to pass through), was covered by a neatly cut thin stone slab or by planks. Roofs, which were at least eight inches thick, were constructed of several large beams, poles, branches, and clay, and in the center of each roof was the hatch. Smoke from the firepit escaped by this route and fresh-air intake in some rooms was provided by ingenious ventilator shafts. It seems probable that the builders of the pueblo on the Davis ranch had a "blueprint" in mind because the rooms appear to have been built to a pattern. One row of rooms is in line, the rooms are all about the same size, and all the firepits are in line. Two ceremonial rooms (kivas) were found. One had a flagstone floor into which loom holes had been drilled.

Corn (charred cobs found) and probably beans and squashes were planted in the floodplain of the Little Colorado just below the village, an excellent site for agriculture. Certainly the river water was used for domestic purposes and may have been used for sheet irrigation, although there is no evidence.

Some 25,600 potsherds were recovered from stratified rubbish and from the fill and floor of rooms and kivas. These sherds have been placed in twenty-five types of painted wares and about twelve utility types. In all, forty-nine whole or restorable vessels were recovered. Early pottery types occurred throughout the debris, but if any earlier rooms existed they had been completely razed. A technological study of all of these sherds is in progress. One technique (that of refiring sherds at constant temperature) is used to determine similarities or dissimilarities of clays and thus to determine which are imported or locally made pots. Howard Anderson is making the analyses.

Tentative conclusions based on refiring and microscopic and chemical analyses indicate that the painted decorated pottery—Salado polychromes, Hopi yellow, and Zuni glazes—was obtained by trade from areas to the southwest, northwest, and northeast and at distances varying from 70 miles to 200 miles. The remainder—that is, the bulk of the pottery consisting of about 20,000 sherds of utility wares (unpainted types)—was probably made locally and is Mogollon in character. We wonder if the inhabitants of the site at the Davis ranch made any painted pottery. We do not know at present. It is conceivable that the “foreign” (traded) types were all made at the Davis ranch site by artisans and craftsmen who brought clay, paints, temper, and the ideas for the traditionally correct designs from the various areas mentioned. We do not know what the Indians at the Davis ranch site used for barter.

More than 850 stone, bone, shell, and textile artifacts were recovered from the pueblo. These comprise the tools and other accessories of a technology with a continuity that had lasted some 2,000 years but had at the same time included the industrial arts of a well-developed Stone Age culture. Many of the chipped-stone tools have their counterparts in the earlier areas of the culture, and the majority of the milling tools were shaped by the most primitive methods of pecking and grinding. On the other hand, many new tools and tool types had come to be used, such as grooved axes, arrow-shaft tools, saws, and sledge hammers. Some of these were polished. Meanwhile, certain types of axes, mauls, hoes, and arrow-shaft tools impart a Western Pueblo character to the whole and indicate that the culture was Mogollon in derivation.



PANORAMA SHOWING REMAINS OF  
MOGOLLON INDIAN VILLAGE (ABOUT A.D. 1400)  
ON LOW HILL NEAR ST. JOHNS, ARIZONA

EXCAVATED IN 1958 BY  
SOUTHWEST ARCHAEOLOGICAL EXPEDITION

Thus the pueblo at the Davis ranch, tentatively dated at about A.D. 1350-1425, appears to be Mogollon in character intermixed with sizable portions of Hopi, Salado, and Zuni traits. It would appear that the pueblo was the end product of a long cultural growth and not a Zuni "suburb." There is a close tie-up with Foote Canyon pueblo dug in 1955 in New Mexico and the pueblo excavated here.

George I. Quimby, Curator of North American Archaeology and Ethnology, continued his research on problems of archaeology and environment in the Upper Great Lakes region. He made study trips to museums and universities in Wisconsin and Michigan and conducted field research in northeastern Wisconsin, the Upper Peninsula of Michigan, and the north shore of Lake Superior (see page 40). Field researches included an archaeological survey of Washington Island in northern Lake Michigan and a reconnaissance of the Point Beach State Forest area in northeastern Wisconsin. A study of site loci and fossil beaches in this area showed that a complex of stone and copper tools and weapons and polished stone ceremonial objects were later than the Algoma Beach stage in the Lake Michigan basin and belonged to the late Archaic period (about 900 B.C. to 400 B.C.) of the Upper Great Lakes region. Curator Quimby was assisted by Winston Elting and James R. Getz in an archaeological survey of the coastal region of Lake Superior—the vicinity of Huron Mountain in northern Michigan, the Grand Portage area of northern Minnesota, and parts of Ontario as far east as the Pic River. Important collections were obtained in the vicinity of Pass Lake, Ontario, and the mouth of the Pic River. The earliest recovered specimens date from about 7000 B.C. and the latest at about A.D. 1700.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, centered his research in the study of the Museum's fine collection of Chinese rubbings (ink impressions on paper of inscriptions and designs on steles, bronze vessels, shrine and tomb walls, pottery, bricks, and tiles). This research, which involved the translation of relevant materials from Chinese and other languages, consisted of investigations into the origin and development of the practice of making rubbings, the materials and techniques used, the uses of rubbings and rubbing techniques, and the collecting and handling of rubbings (see facing page).

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spent from early February through mid-July in London where he was engaged in the documentation of the Fuller Collection of ethnological and archaeological materials from the Pacific Islands (see pages 21 and 50) and in the preparation of the collection for shipment to the Museum. The documentation is extremely complete



RUBBING  
OF  
GRAVESTONE  
OF  
EARLY  
CATHOLIC  
MISSIONARY

PEKING  
CHINA

D. O. M.

P. MATTHÆUS  
RICCI, ITALUS  
MACERATENSIS,  
SOC. IESU PROFESS.  
IN OVA VIXIT AN-  
NOS XLII, EXPENSIS  
XXVIII IN SACRA A-  
PUD SINAS EXPEDI-  
TIONE; UBI PRIM.  
CUM CR̄I FIDES  
ERTIO IAM INVE-  
HERETUR, SOCIO-  
RUM DOMICILIA  
EREXIT: TANDEM  
DOCTRINÆ ET VIR-  
TUTIS TAMA CELE-  
BER OBIT PEKINI  
A. C. MDCX. DIE XI.  
MAY, ÆT. SUÆ LIX.

耶  
蘇  
會  
士  
利  
公  
之  
墓

利先生諱瑪竇 西泰大西洋意大里亞國人自幼入  
會真修門萬曆壬午年航海首入中華傳教萬曆庚子  
年來都萬曆庚戌年卒在世五十九年在會四十二年

because information recorded on tape for later transcription at the Museum was accomplished in collaboration with the collectors, Captain and Mrs. A. W. F. Fuller. Curator Force continued his research interests that bear on the social organization, political change, and native bead-money of the Palau Islands in Micronesia (see Annual Report 1956, page 40). The first of several projected manuscripts based on field work conducted in the Palaus from 1954 to 1956 was completed.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, worked on the analysis of data and collections gathered in 1956 during the archaeological expedition to Peru. A radiocarbon date of 342 B.C.  $\pm$ 80 years was obtained from the Lamont Geological Observatory of Columbia University on a sample from a wooden lintel in the hilltop fortress of Chanquillo in Casma Valley. This places the stone fortifications in Casma in the same period as the hilltop redoubts in Virú Valley to the north, which were studied in 1946 by the expedition to Peru. He continued to collaborate with Dr. A. L. Kroeber, Research Associate in American Archaeology, in preparation of a report on the Nazca culture of the south coast of Peru. Throughout the year he carried out research on Mexican archaeology in connection with reinstallation of Hall 8 (Ancient and Modern Indians of Mexico and Central America).

During the first part of the year Assistant Curator Rinaldo collaborated with Chief Curator Martin in preparation of a report on the excavations made during the summer of 1957. For his part in this report Dr. Rinaldo made an analysis that indicates that the source of some of the materials recovered might be assigned to the Concho Complex, a specialized manifestation of the more widespread Desert Culture (beginning of which is placed at about 9000 B.C.), whereas the tools and accessories of the later cultures possessed attributes of both those found in the Anasazi culture, located to the north, and the Mogollon culture to the south.

Phillip H. Lewis, Assistant Curator of Primitive Art, continued to develop the Division of Primitive Art in both its research and exhibition. In research the emphasis continued upon gathering factual information about the distribution, variation, meaning, and function of the art of primitive societies. Study of the Museum's Melanesian collections, particularly those from New Ireland, and of the African collections continued.

Led by Allen S. Liss, Custodian of Collections, and Dr. Elaine Bluhm, of the University of Illinois, excavation of the Anker site in south Cook County was carried on in co-operation with the Illinois Archaeological Survey as a joint project of this Museum and the



CLAY FIGURINES  
(ABOUT 500 B.C.)  
FROM  
CHUPICUARO  
MEXICO

DISPLAYED IN HALL 8

University of Illinois. This salvage project, necessitated by new housing developments, has added greatly to our knowledge of Illinois archaeology. Material found has given us information about burial practices, decorative art, and the daily pattern of life of the aboriginal inhabitants in the Chicago area between 1400 A.D. and 1600 A.D. Of special interest were the remains of a large structure, the first found in the area. The material is still being studied for a published report of the project.

After the Ninth Pacific Science Congress held at Bangkok late in 1957, Evett D. Hester, former Thomas J. Dee Fellow in Anthropology, in company with Professor Fred Eggan of the University of Chicago, made trips to the ruins of Angkor Wat and Angkor Thom and to Chieng-Mai. On returning from Chieng-Mai they visited the sites of Sukhotai and Sawankhalok where, with the permission and assistance of officers and archaeologists of the Thailand National Museum, they made collections of sherds of the rare 12th to 15th century ceramic wares produced at Turiang and Kawtroy kilns. The sherd collections were divided between the Philippine National Museum and Chicago Natural History Museum.

### Accessions—Anthropology

The most outstanding accession of Oceanic materials in some years is the famed Fuller Collection (see pages 21 and 46). This collection (described in Chicago Natural History Museum *Bulletin*, September 1958), which numbers some 6,500 specimens that resulted from a collecting interest of great discrimination, contains ethnological and archaeological materials from virtually every part of Polynesia, Melanesia, and Australia. Most of the specimens were collected individually in the islands by early voyagers, missionaries, and British administrative officials, and it remained for Captain and Mrs. A. W. F. Fuller, of London, with the early collaboration of Captain Fuller's father, the Reverend A. Fuller, to bring the materials together from diverse sources in Oceania, England, and the Continent. Together with the Museum's already excellent and comprehensive materials that emphasize Melanesia in particular, the Fuller Collection provides a source for scientific study and exhibition that ranks exceptionally high among museums the world over.

Among other materials of note from the Pacific area that were added to the Museum's collection during the year are garments from New Zealand, Samoa, Fiji, and Hawaii presented by Mr. and Mrs. Paul Blackwelder of St. Louis in memory of Mrs. Blackwelder's

sister, Miss Frances Del Mar, author of *A Year Among the Maori*. When Evett D. Hester visited the central Philippine Islands on his trip to Bangkok (see page 50) he secured for the Museum a fine collection of ancient shell and paste-glass bracelets from Cebu in the Visayan Islands. Robert Trier, of McKenzie Bridge, Oregon, gave a fine Indonesian batik of unusual design. Captain and Mrs. Fuller, of London, presented an ancient Egyptian bracelet of gold in memory of their daughter Patience.

Received as a gift from Professor H. O. Beyer, Honorary Member of the Museum, are sixty-three prehistoric stone implements from the Philippine Islands, a representative collection that provides the Museum with the largest and most scientifically valuable assemblage of such tools in the United States. Through exchange with the Government Museum, Madras, India, a collection of paleolithic implements has been added to this Museum's collection. These handaxes, cleavers, and chopping tools of considerable antiquity, dating from the Middle Pleistocene, afford a rare opportunity to study some of the earliest tools made by man. Other materials received by the Department of Anthropology during the year are listed at the end of this Report (see page 118).

### Care of the Collections—Anthropology

Under the direction of Custodian Liss, archaeological and ethnological specimens from India and related areas of southeast Asia were moved from the third floor to a new storeroom on the ground floor. This work, which included checking and reorganizing the specimens by geographic location, was carried on by Richard Wolfe, Antioch College student. Work was continued in rearranging and checking the Middle and South American collections that are being moved into Room 35. Assisting in this project under the supervision of Curator Collier and Custodian Liss were, during the year, Miss Hattula Moholy-Nagy (Museum Fellow), Richard Wolfe and Barry Alpher (Antioch College students), and Alfredo Evangelista (Thomas J. Dee Fellow in Anthropology). Purchase of additional steel storage-cabinets for the study collection of textiles of the world has made possible an expansion and reorganization of this collection, which work will be carried on into the coming year.

The primary effort in the Division of Asiatic Archaeology and Ethnology during the year was directed toward cataloguing and organizing the Museum's excellent collection of Chinese rubbings (see page 46). This highly specialized work, among the first of its

kind to be carried on in this country, is being undertaken by Dr. Hoshien Tchen, Consultant, East Asian Collection, and Curator Starr, with the assistance of Miss Lynn Beach, a volunteer whose remarkably careful work in repairing and organizing the delicate rubbings has been of inestimable value. Of significance also is the fact that Dr. Tchen and Curator Starr, aided by Miss Marimari Kellum, Antioch College student, completed the organization of the Laufer Collection of Chinese books and the transfer of these books to the East Asian Library (see page 82). Various other portions of the East Asian collections were cared for. The perishable materials (paper, basketry, wood, lacquer, and leather) were cleaned, given preservative treatment, and reorganized, for which Miss Kellum was also responsible. The collection of early bronzes from Luristan (Iran) was examined and when necessary given treatment to inhibit harmful corrosion—Richard Wolfe was helpful in accomplishing this important task. An excellent start was made toward complete reorganization of the large collection of Chinese and other East Asian coins, an exacting task that was undertaken by Barry Alpher, with the assistance of Miss Beach.

### Exhibits—Anthropology

Fourteen new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America). Dioramist Alfred Lee Rowell completed a model in color of the temple of Quetzalcoatl at Teotihuacan, Mexico, and continued work on a diorama of an Aztec market. A new map case showing the culture and tribal areas of Madagascar was installed in Hall D. A special exhibit "What Is Primitive Art?" was shown during the summer months in Stanley Field Hall (see page 26). The exhibit, which defined primitive art and served to introduce to the Museum public the extensive art holdings of the Museum, has since been moved to the ground floor, where it may be seen in the corridor leading from Hall C to Hall E. All of these exhibits were designed by Artist Gustaf Dalstrom and prepared by him and Preparator Walter C. Reese. The materials used in the exhibits were mended and restored for the department by Ceramic Restorer Walter Boyer.

# Department of Botany

## Research and Expeditions

The Department of Botany's long-standing reputation for research in South American botany was recognized by the award of a commemorative medal issued for the celebration on June 13, 1958, of the sesquicentennial of the establishment of the Botanical Garden of Rio de Janeiro. The medal, now on display in the departmental library, was transmitted to Chicago Natural History Museum through the courtesy of the Department of State of the United States and Dr. G. H. M. Lawrence, Director of the Bailey Hortorium of Cornell University, Ithaca, New York.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, continued his systematic studies of the genus *Copernicia* in collaboration with Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago). As a direct result of this work a new name (*Copernicia leoniana* Dahlgren and Glassman, see page 55) was given to a Cuban species of palm (formerly called *Copernicia burretiana* León) that was described originally by the late Brother León (Dr. Joseph S. Sauget y Barbier), for many years a Corresponding Member of the Museum (see Annual Report 1955, page 24). During the summer Dr. Glassman made a field trip to Cuba and southern Florida to collect additional *Copernicia* material. Work was also continued on revision of the "Index of American Palms."

J. Francis Macbride, Curator of Peruvian Botany, studied various families in preparation of additional parts of *Flora of Peru*. The University of California botanical expedition to Peru under the leadership of Professor T. H. Goodspeed, supported in part by the Museum, returned with extensive collections of cacti and other plants. Paul C. Hutchinson, of the Botanical Garden of the University of California, is already actively engaged in preparing his treatment of the family Cactaceae for the *Flora of Peru*. Dr. Rogers McVaugh, who is Curator of Vascular Plants at the University of Michigan and a Research Associate on this Museum's staff, began work on his critical catalogue of the Sessé and Mociño collection of Mexican plants on loan from Madrid. During a visit to the Museum in June he went over the entire collection, of which about a thousand specimens are yet to be identified. In this work he will be assisted by a number of specialists. In September he collected in the vicinity of Apatzingán, Michoacán, a locality visited by Sessé and Mociño in 1790, and expects to correlate his material with their collections.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, identified large consignments of Hawaiian and Mexican plants and published a paper (see page 106). During the year he made two trips through the Upper Peninsula of Michigan to study local flora. Dr. Margery C. Carlson, Associate in Botany, continued her study of Central American Loranthaceae before leaving in September for an extended tour of Europe.

Dr. Theodor Just, Chief Curator of Botany, continued his synoptical studies of gymnosperms and comparative studies of modern and fossil angiosperm pollen. In addition he prepared for publication a bibliography of American paleobotany (1953-57), in which work he was aided by Miss Mary-Ann Baugh, student assistant. Several papers dealing with various aspects of paleobotany were completed by the end of the year and now await publication in several American scientific journals.

Before his resignation Dr. Francis Drouet, Curator of the Cryptogamic Herbarium, continued research on blue-green algae. Dr. Hanford Tiffany, Research Associate, conducted research in the taxonomy of the Oedogoniaceae and published a revised edition of his eminently readable book, *Algae, The Grass of Many Waters*.

Dr. John W. Thieret, Curator of Economic Botany, continued his studies of various tropical American Scrophulariaceae and temperate and subarctic Gramineae. Preparation of entries on the Scrophulariaceae for the *Index Nominum Genericorum* and the treatment of this family for the *Catálogo e Estatística dos Gêneros Fanerogâmicos* were also continued. Accompanied by Chester F. Hansen, a member of the faculty of York Community High School in Elmhurst, Illinois, he conducted a field trip to the northern Great Plains of the United States and Canada in July and August (see page 40). There special attention was given to the study and collection of grasses, and a week was spent at Ft. Providence, Northwest Territories, Canada, on the Mackenzie River west of Great Slave Lake, in studies of grassland vegetation. A brief trip along the shores of Lake Michigan and Lake Huron was taken in September to make mass-collections of *Calamovilfa longifolia* to supplement those made in the Great Plains.

Miss Edith M. Vincent, Research Librarian, prepared indices for various volumes of Museum botanical publications. She added numerous references to current botanical literature to the unpublished parts of the *Flora of Guatemala* (Standley and Steyermark). In addition to her regular duties she assisted many correspondents by finding and sending to them descriptions of and information about various plants.





SPECIMEN OF CUBAN WAX PALM  
"COPERNICIA LEONIANA"

## Exhibits—Botany

The task of rearranging and reinstalling exhibits in the Hall of North American Trees (Hall 26, Charles F. Millsbaugh Hall) was continued throughout the year and the entire hall soon can be reopened. Nineteen exhibits were reinstalled, most of the work for which was carried on jointly by Curator of Exhibits Emil Sella, Technician Frank Boryca, and Preparator Walter Huebner, with the assistance of Artist-Preparator Samuel H. Grove, Jr. Four new branches of conifers were prepared from original material by Curator Sella and added to these exhibits: eastern hemlock (*Tsuga canadensis*), Norway pine (*Pinus resinosa*), red spruce (*Picea rubens*), and pitch pine (*Pinus rigida*). An attractive reproduction of a fruiting branch of madroño (*Arbutus Menziesii*), an evergreen tree of the Pacific coast, was completed by Artist-Preparator Grove and installed in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life) with the heath family. A new mural of *Gunnera magnifica*, the work of E. John Piffner, Staff Artist, shows the strange gigantic herb found at altitudes around ten thousand feet in the Andes of Colombia, a remarkable plant that was discovered in 1944 by Professor Harold St. John while he was a member of the Cinchona Mission.

The Board of Trustees honored Stanley Field on the occasion of his fiftieth year as President of the Museum by designating the collection of plant models on display in Hall 29 and other halls of the Museum as "The Stanley Field Collection of Plant Models" (see page 23). An engraved plaque commemorating this event was installed in Hall 29.

The special exhibit in Stanley Field Hall from October 4 through October 12 of three hundred living orchid plants and an equal number of fresh-cut orchids (see page 26) was shown through the cooperation of the Illinois Orchid Society and some seventy-five orchid growers of the Middle West, California, Florida, and Hawaii. The plants were displayed in a prefabricated greenhouse erected for the purpose and furnished through the courtesy of Lord and Burnham, greenhouse contractors. The background exhibit included watercolors of orchids from various parts of the world (by H. Gilbert Foote, a Chicago artist), a series of large published prints of orchids from the Botanical Library of the Museum, copies of the Museum's publications on tropical American orchids, and selected herbarium specimens of orchids, native and foreign. In planning, arranging, and setting up this exhibit the staff of the Museum was assisted most effectively by Gilbert S. Daniels of Evanston, vice-president of the Illinois Orchid Society, and by several members of that society.



CURATOR OF EXHIBITS SELLA (RIGHT) AND PREPARATOR HUEBNER  
MOUNT A LABEL FOR A REINSTALLED EXHIBIT IN  
THE HALL OF NORTH AMERICAN TREES

## Accessions—Botany

The largest gifts to the phanerogamic herbarium consisted of 4,723 plants of the United States collected by Holly Reed Bennett of Chicago and 183 mounted herbarium specimens of cycads donated by the University of Chicago. The largest collections of plants acquired through exchange were received from the University of Michigan (1,118 phanerogams of Norway and Sweden collected by Louis Jordal and 1,338 vascular plants of Australia collected by M. S. Clemens) and from DePauw University (1,317 vascular plants of Jamaica collected by Professor G. T. Yuncker). A notable collection of 1,475 phanerogams of Costa Rica made by Dr. Carlson, Associate, was purchased from her. The cryptogamic herbarium was given an interesting collection of 79 fungi by Associate Curator Henry S. Dybas, of the Museum's Department of Zoology.

## Care of the Collections—Botany

During the year 15,478 plants were mounted and added to the phanerogamic herbarium. Mounting and poisoning were done by Mrs. Ann Bigelow, Miss Olive Doig, Mrs. Jennie Pletinckx, and Nils Siegbahn, aided by Robert Yule and, for part of the year, by Miss Mary-Ann Baugh, Miss Elaine Herman, Miss Linda Oatman, and Miss Adrienne Watkins (student assistants) and by Miss Karin Krause, Miss Ruth A. Morris, Miss Patricia Roth, and Miss Alice Schwartz (Antioch College students). Additional aid in plant mounting was furnished in November and December by Group 1 of the Girl Scouts of Du Page County (Mrs. E. C. Gollan, Leader, Downers Grove) as their Museum Aid Project. A total of 23,382 phanerogams was sent out in exchange. Miss Alice Middleton and Mrs. Effie M. Schugman mounted 123 specimens of cryptogams for the general collection and repaired and remounted 7,850 specimens. During the year a total of 130 wood specimens was sent out in exchange. Curator Thieret was assisted in the care of the wood, seed, and economic collections for part of the year by Mrs. Bigelow and Miss Watkins. Work on restoration of the type-photograph collection was continued by Assistant J. S. Daston before his nine-month leave of absence. Mrs. Lenore B. Warner catalogued and filed prints of the type-photograph collection, handled orders and exchanges, continued the preparation of a Generic Index file for the Macbride Collection, and indexed and prepared herbarium sheets to be photographed and added to the general collection.

# Department of Geology

## Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Robert Sloan, of the University of Minnesota, collaborated in the study of a Cretaceous sea turtle (*Desmatochelys mowi* williston). He also completed the study of another Cretaceous sea turtle from the Mooreville Chalk of Alabama and prepared two papers.

The National Science Foundation awarded a substantial three-year grant to Curator Zangerl and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, for the continuation of the paleoecological phase of the Mecca project (see Annual Report 1957, page 53). Studies of the Pennsylvania black shales from the Mecca and Logan quarries, Parke County, Indiana, by Zangerl and Richardson continued throughout the year and together they made the first review of the vast collection. Many specimens were trimmed to suitable size and X-rayed. The task of cutting and trimming the specimens was entrusted to Miss Patricia Hutson, Antioch College student.

With the coming of the field season Curators Zangerl and Richardson returned to the Logan quarry (see page 40) to complete the excavation that was begun there in 1957 (see Annual Report 1957, page 55). They were ably assisted by Preparator Ronald J. Lambert and temporarily appointed preparators Edward Richardson and Chin Chen. Others who cheerfully responded for the hard work of excavation were Duncan Dunlap, Antioch College student, and volunteers Charles Knowles, Stephen Collings, and William Herbert. Work at Logan quarry was completed in October, and 652 specimens were collected during the season. Mr. and Mrs. P. Herbert Logan, of Indianapolis, after whom the Logan quarry is named, again kindly permitted the Museum party to work on their land and provided the use of a small house for the summer. Their co-operation and timely help are most thankfully acknowledged.

Following the Museum's acquisition of the Charles D. Nelson Collection (see page 63), Curator Richardson began the task of identifying its eighty-three thousand fossil invertebrates. Mr. Nelson's interest in collecting embraced most of the geologic systems and many parts of North America, so that his collection complements that of the Museum in many important respects. During the year Curator Richardson identified and catalogued several hundred Nelson specimens of Pleistocene and Pliocene mollusks from Florida and incorporated them in the study collection. Also he treated with

formic acid a number of the insect-bearing Miocene concretions from the Mojave Desert (see page 63). The insects, preserved three-dimensionally in acid-insoluble minerals, are microscopic, some no longer than one-fiftieth of an inch. The specimens, which were sorted according to species, were mounted for permanent reference.

George Langford, Curator of Fossil Plants, concentrated his work on the Museum's large and representative plant collections from the Pennsylvanian of Will and Grundy counties, Illinois. He also worked on the flora of the Upper Cretaceous and Lower Eocene of the southern states, giving special attention to new species, many of which he described and drew or photographed. His manuscript on the Wilmington coal flora on which he labored for more than two decades was published during the year by the Earth Science Club of Northern Illinois (see page 107). A voluminous work of 360 pages illustrated by 455 photographs and 200 drawings, it should be of great service to all interested in the Pennsylvanian flora.

Dr. Robert H. Denison, Curator of Fossil Fishes, devoted much of his time to a study of the Lower Devonian fishes from Ohio in the collection of Dr. J. Ernest Carman (see Annual Report 1956, page 56). The sorting and preparation of hundreds of specimens, which had been a time-consuming but a rewarding task, furnished a large amount of material of one species that he needed for the particular type of study in which he was engaged—a study of growth and variation. He also made a restoration of the shield of a small Lower Devonian arthrodire, *Bryantolepis*, from Wyoming.

William D. Turnbull, Assistant Curator of Fossil Mammals, worked on the introduction to his proposed report on the mammalian fauna of the Washakie formation of Wyoming, which contains a historical review of the previous work done on the vertebrate faunas and a section on the geology of the region. Accompanied by David Collier, who had volunteered to assist him in the field, he returned to the Washakie basin for about two months during the summer and completed the field survey of the stratigraphy and geology of the area (see page 40). Noteworthy among materials collected were a uinthere pelvis, a crocodile skull, a mammalian microfauna, and two partial skeletons, one a primate the other a taeniodont. Turnbull also made progress in his studies of the adaptive types of mammalian masticatory apparatus and, in relation to this, he dissected and studied the jaw musculature of a representative of each of the three major rodent groups.

Since joining the staff in August, Bertram G. Woodland, Associate Curator of Petrology, acquainted himself with the collections in his care and did preparatory work in the Chemical Laboratory

for quantitative analysis. He pursued his petrographic research on igneous and metamorphic rocks of an area in northeast Vermont. Albert W. Forslev, Associate Curator of Mineralogy, began a comprehensive investigation of the mechanical, chemical, and mineralogical properties of sediments and sedimentary rocks to gain information on factors affecting the stability of minerals in sediments, the rearrangement of constituent minerals during the consolidation and low-grade metamorphism, and the formation of clay minerals. The reported occurrence in Arizona of ecdemite, a rare oxychloride of lead and arsenic, drew his attention. Doubtful of the report of the occurrence, he obtained some twenty specimens, all supposedly ecdemite, from various collectors in the Southwest. Careful study and X-ray analysis of the specimens confirmed his doubt. All proved to be mimetite, a more common mineral similar in composition to ecdemite. The X-ray diffraction equipment of the William J. and Joan A. Chalmers Mineralogical Laboratory was in almost constant use during the year for the identification of many unusual minerals obtained by the Museum.

Dr. Sharat K. Roy, Chief Curator of Geology, returned to his duties after a year's stay abroad, where he was engaged in research and consultation on stony meteorites, especially concentrating on those that contained certain rounded grains called chondrules. Believing that chondrules, the like of which, structurally or in manner of crystallization, have not been observed in terrestrial rocks, may hold the key to the origin of meteorites at large, Chief Curator Roy set out to examine petrographically as many thin sections of chondritic meteorites as he could. During this examination he noted the order in which the different minerals have appeared and the degree of metamorphism they have undergone. He also noted the textural and structural variations and the distribution and interrelationships of the various components of the chondrules. The petrographic study was supplemented by microphotographs of thin sections, both in color and black-and-white, taken to provide the necessary information for interpretation of the features observed under the microscope and as a reference for comparison.

It is hoped that the knowledge gained by this critical study of chondrules will remove certain existing uncertainties and help build an acceptable theory of their origin and development. Dr. Roy wishes to express his grateful appreciation for the research grant he received from the National Science Foundation to pursue the study. He also wishes to extend his hearty thanks for the cordial co-operation and use of laboratory facilities given him by the various institutions he visited in Europe and India.



MISS MAIDI WIEBE  
ARTIST IN THE  
DEPARTMENT OF GEOLOGY

MODELING A DEVONIAN FISH  
FOR A NEW EXHIBIT OF FOSSIL FISHES



## Accessions—Geology

The purchase of the collection of the late Charles D. Nelson of Grand Rapids, Michigan, was the most outstanding accession of the year, both in number of specimens and in importance. Included in the collection are several hundred fossil plants and about eighty-three thousand fossil invertebrates. Of the fossil plants, a large and well-preserved trunk of a fossil cyclid tree is of particular interest. The collection also includes some four thousand mineral specimens and a large quantity of material of economic importance. Many of these mineral and ore specimens were collected from such world-famous localities as Franklin Furnace, New Jersey, Crestmore, California, and Magnet Cove, Arkansas, and cannot be duplicated now.

An exchange with Mr. and Mrs. Samuel Kirkby of Riverside, California, enriched our collection with 880 insect-bearing concretions from the Miocene Barslow shale of the Mojave Desert, California (see page 60). The insects are preserved in three dimensions and are in some respects superior even to the famed amber insects of the Baltic Oligocene.

Erik N. Kjellesvig-Waering, Research Associate, presented about a hundred specimens of fossil invertebrates that he had collected while on an exploratory visit to Yaurichambi, Bolivia. This is a classic locality from which Alcide d'Orbigny, a century ago, described several important fossils, of which representatives are included in this valuable collection. Dr. and Mrs. Robert H. Whitfield, Associates in Fossil Plants, gave 150 excellent specimens of Lower Eocene flora that they collected in Puryear, Henry County, Tennessee. Other materials received by the Department of Geology during the year are listed at the end of this Report (see page 120).

## Care of the Collections—Geology

With the aid of Duncan Dunlap, Miss Nancy Hayes, and Ben Massie, Antioch College students, the study collection, with the exception of the silicate minerals, was reclassified according to the new Dana's System of Mineralogy. Approximately ten thousand specimens were rearranged in the collection, all identification labels were verified, and mineral names were brought up to date on the labels. David Techter, Assistant in the Division of Fossil Vertebrates, catalogued the entire Bebb Collection of La Brea tar-pool mammals that was a gift of Northwestern University Dental School (see Annual Report 1954, page 54) and completed the task

of integrating into the Museum's fossil-mammal collection a great number of Oligocene mammals received from the University of Chicago. In preparation for the new exhibits of meteorites the last of the meteorites was removed from Hall 35 (see page 66) and placed in the study collection. Henry Horback, Assistant in Geology, who reweighed every specimen in the collection, is to be credited for the excellent manner in which he has arranged the entire collection.

## Exhibits—Geology

The mount of the incomplete *Brontosaurus* skeleton, which had been on exhibition in Ernest R. Graham Hall (Hall 38) since 1921, was successfully completed during the year (see pages 21 and 95), a task made possible by the acquisition of the missing parts, although from a different individual, by a Museum expedition in Utah in 1942. The preparation and assembling of the parts were accomplished primarily by Orville L. Gilpin, Chief Preparator of Fossils, who was ably assisted by Preparator Lambert, and both men are to be congratulated for their skill in adding the new materials to the old mount so perfectly that all parts of the skeleton seem to have been mounted at the same time. The finished exhibit was displayed to the public on Members' Night, April 18 (see page 36). Chief Preparator Gilpin also remounted the damaged skeleton of the giant Irish deer that had been long on exhibition in Hall 38.

First steps were taken during the year toward preparation of a completely new series of fossil-fish exhibits to be arranged systematically. A few large and spectacular fishes will be featured, one of which is an exceptionally fine fourteen-foot specimen of the teleost *Portheus* from the Walker Museum of the University of Chicago. Also to be displayed are the fifteen-foot shark from Indiana collected by Curators Zangerl and Richardson (see Annual Report 1957, page 56) and one of the huge armored fishes, or placoderms, of the Devonian period, *Dunkleosteus* (Chief Preparator Gilpin assembled and mounted a cast of one of the best specimens of *Dunkleosteus*). Fossil fishes are generally not preserved well enough to give a clear idea of how they might have looked in life. To make visualization of the forms more distinct a number of extremely lifelike restorations to be used in the planned exhibits were completed by Miss Maida Wiebe, Departmental Artist, who is to be commended for the restorations in natural size of the jawless fishes *Pteraspis*, *Hemicyclaspis*, and *Pharyngolepis* and of the placoderms *Cocosteus* and *Gemundina*.



COMPOSITE SKELETON OF  
"BRONTOSAURUS EXCELSUS"

THE NEWLY COMPLETED DINOSAUR MOUNT  
DISPLAYED IN HALL 38

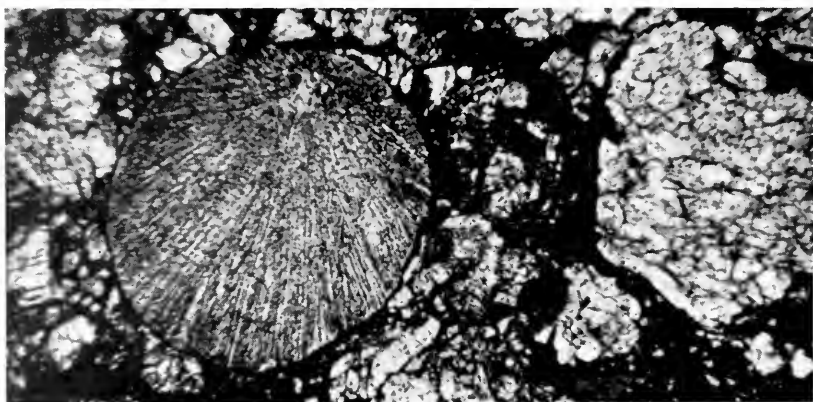
THE SKELETON  
IS SHOWN HERE  
JUST BEFORE IT  
WAS PLACED  
ON EXHIBITION

One of the two new exhibits in the Hall of Economic Geology (Hall 36) shows silver, lead, and zinc ores from the famed mines of Laurium, Greece. The other is devoted to the mineral resources of the State of Illinois, in which connection thanks are given for his timely help to George M. Wilson, head of the Educational Extension Division of the Illinois Geological Survey.

Twenty new exhibits were installed in the new Hall of Meteorites and Minerals (Hall 35), of which the completed mineralogical section contains eleven exhibits of materials introductory to mineralogy, twenty of minerals arranged systematically, and eight of uncommon minerals. Work on the meteorite exhibits, which occupy the west end of Hall 35, was resumed upon the return of Chief Curator Roy (see page 61), and one exhibit (classification and structure of meteorites) neared completion at the end of the year. Eight cases housing large meteorites were rebuilt by the Division of Maintenance. The huge model of the moon at the west wall of Hall 35 was renovated and set in a sky-blue background, which, artfully illuminated by the Division of Engineering, is strikingly effective and lends to the entire hall a pleasing appearance.

Harry E. Changnon, Curator of Exhibits, Assistant Horback, and Preparator Henry U. Taylor successfully carried out this exhibition program. Associate Curators Forslev and Woodland were largely responsible for the sequence of the exhibits, the descriptive labels, and the selection of specimens. Drawings of crystal structure and diagrams are the competent work of Miss Wiebe, Artist.

Microphotograph of a thin section of  
a chondritic stony meteorite (see page 61)



# Department of Zoology

## Research and Expeditions

Peru, Colombia, the Atlantic off Surinam (Guiana), the United States, Egypt, Nepal, and Malaya—each was the scene of activities by staff members, and also an expedition in Colombia was made by a nonstaff member. Despite the demands of specialization that dictate that most of a field worker's attention be given to his specialty, usually at least some additional material is secured.

**SOUTH AMERICA.** *Peru:* Curator Emmet R. Blake carried on field work (June–November 1958) in the Amazonian lowlands east of the Andes in the southeastern part of the country, where he traveled on the Rio de Madre de Dios (see pages 22 and 40) and made the first sizable collection of birds (1,046 specimens) from the area. *Colombia:* Field Associate Frederick J. Medem (of Instituto de Ciencias Naturales, Bogatá, Colombia) sent us a small but important collection of mammals. Kjell von Sneidern (of Popayan, Colombia) collected mammals and some birds for us in the little-known southwestern part of Colombia (see page 40). *Atlantic off Surinam (Guiana):* Again this year Curator Loren P. Woods participated in co-operative field work with the United States Fish and Wildlife Service on the research vessel *Oregon* (August–September 1958) in continuation of similar work in the equatorial western Atlantic in 1957 (see page 40). Before these collections were made, the offshore fauna of these regions was unknown. The combined fish collections that came to us from the dredging done on these trips (some 5,580 specimens) represent numbers of undescribed species, range extensions, and material for comparison with specimens from the Caribbean as well as provide a basis for study of the fishes that occur there.

**UNITED STATES.** *Illinois:* Associate Curator Henry S. Dybas made a field trip to southern Illinois (see page 40) to collect from leaf litter the minute beetles of the family Ptiliidae (feather-wings) for his long-range study of this group. Curator Rupert L. Wenzel made a number of short trips to the nearby Indiana dunes to collect certain living beetle material for anatomical studies. *Iowa:* Curator Woods made a two-day field trip in Iowa to work in co-operation with the annual collecting trip of the John G. Shedd Aquarium (Chicago) and with the United States Fish and Wildlife Service. Specimens were collected for the Museum's reference collection, some large specimens were selected to be made into skeletons, and photographs of some species were taken for a forthcoming handbook on local fishes.

OLD WORLD. *Egypt*: Research Associate Harry Hoogstraal, stationed in Egypt, continues to send us mammals, birds, reptiles, amphibians, and ectoparasites. *Nepal*: Field Associate Robert L. Fleming continued with his mission in Nepal. A shipment from him contained 54 species of birds that he had not found hitherto in Nepal (his earlier collections listed 490 kinds of birds). *Malaya*: Curator D. Dwight Davis (Vertebrate Anatomy) engaged in six weeks of field work studying the fauna of the rain forest north of Singapore (see page 40).

The many collections that we have been accumulating are providing the raw material for a rich harvest of research. Much of this research is centering on comprehensive regional accounts of certain groups of animals, checklists or other faunal reports of larger or smaller parts of the globe, or comprehensive treatments (varying from checklists to monographs) of animals or groups of animals. These are usually projects that take years to complete. During their progress entrancing side-issues appear that sometimes are followed up, with results that may be elaborated into important pieces of research. Sometimes routine curating necessitates research that also results in published reports.

DIVISION OF MAMMALS. The checklist of South American mammals, now two-thirds completed (aided by a grant from the National Science Foundation), continues to occupy Curator Philip Hershkovitz. In pursuance of this work he made a trip to the British Museum (Natural History) in London, where he studied types of South American mammals housed there. This work has also necessitated a review of the deer and short papers on rodents, dogs, and technical nomenclature problems. Interrupting his studies, as in former years, is the periodic need for identification of mammals for various specialists studying the ectoparasites that were collected with the mammals. This is especially important in the African material collected by Research Associate Hoogstraal, who is as much interested in the parasites as in the vertebrates he collects.

DIVISION OF BIRDS. Although absence on field work in Peru (see page 67) has curtailed Curator Blake's research, he continues to specialize in the systematics of Neotropical birds. He reviewed a group of wood partridge and has started a report on the Cerro Macarena (eastern Colombia) bird collection received last year. Assistant Curator Melvin A. Traylor, Jr., completed the report on the collection of Gabon birds (with Chief Curator Austin L. Rand), began a report on the Angola bird collection and a checklist of the birds of Angola, reviewed the African grey tits (with Mrs. B. P. Hall of the British Museum), and prepared a paper on polymorphism in



CURATOR BLAKE IN CAMP

CONOVER PERU EXPEDITION  
TO COLLECT BIRDS IN  
THE AMAZONIAN LOWLANDS

an African flycatcher and several short taxonomic papers. Associate D. S. Rabor returned to Chicago for the summer after a year at Yale University and while here completed (with Chief Curator Rand) reports on the birds of several Philippine islands and a few short taxonomic papers. Chief Curator Rand has also started a review of the sunbird for the continuation of Peters' *Checklist of Birds of the World* (a series published by Harvard University) and prepared a paper on the tarsal envelope of song birds and its use in classification. Associate Ellen T. Smith has completed a guide to the birds of the Chicago area (see page 102).

**DIVISION OF AMPHIBIANS AND REPTILES.** The report on the huge collection of Congo frogs from Parc National de l'Upemba, Belgian Congo, by Curator Robert F. Inger and the late Curator Emeritus Karl P. Schmidt (see Annual Report 1955, page 58) is finally completed and in press. Curator Inger has also completed a survey of the amphibians of South Africa, based on the collections made in 1950-51 by the expedition from Lund University (Lund, Sweden), at the request of the university and to be published by it. He is also continuing his studies of the reptiles and amphibians of Borneo, whence he is receiving additional new material from time to time. Among studies completed are papers on new catfishes from North Borneo and a new toad from Sarawak and notes on a Bornean glass snake. Assistant Hymen Marx continued his studies of the reptiles of North Africa and Southwest Asia and completed manuscripts on Egyptian snakes of genera *Psammophis* and *Cerastes*.

**DIVISION OF FISHES.** Curator Woods continued his intensive study of marine fishes of the Gulf of Mexico, Caribbean Sea, and equatorial Atlantic (see page 67). Associate Marion Grey carried on her survey of fish fauna found below a depth of about 900 meters. She completed the preliminary report of the Family Gonostomatidae for *Fishes of the Western North Atlantic* (a series of volumes published by Sears Foundation). She also completed a manuscript on fishes collected from the Gulf of Mexico by the research vessel *Oregon* (see page 67 and Annual Report 1957, page 60). Associate Edward M. Nelson continued his study of electric organs in fishes.

**DIVISION OF INSECTS.** Curator Wenzel's main project, a monograph on histerid beetles of the genus *Margarinotus*, is nearing completion. In the course of this work he has studied and identified about 40,000 specimens from Europe, Asia, and North America, many of the specimens on loan from other institutions. He completed a short paper on the genus *Margarinotus* for inclusion in Professor Melville Hatch's *Beetles of the Pacific Northwest* and another short paper describing several new species of histerid beetles from the



Pacific Northwest. Associate Curator Dybas has commenced a revision of the Limulodidae, a family of minute beetles related to Ptiliidae. Dybas and Research Associate Charles H. Seevers proposed and defined this family, which includes about thirty species, some years ago. Now a revision is necessary because of the receipt of much additional material, with many new genera and species, from Panama. Much of this new material was collected by Carl Rettenmeyer of the University of Oklahoma, who has made the largest collection ever brought together of this interesting group of ant guests and has sent it here for study by our specialist Dybas. Research Associate Seevers has continued his studies of the classification of rove beetles (family Staphylinidae) and is currently preparing a taxonomic monograph and evolutionary study of the species that live with driver and army ants. Associate Harry G. Nelson studied the comparative anatomy of the female reproductive system of the dryopoid water beetles. Associate Lillian A. Ross continued her study of spiders.

**DIVISION OF LOWER INVERTEBRATES.** Curator Fritz Haas made studies of families of land-living snails from the West Indies and the Dutch possessions in South America, to be published in Hummelinck's *Studies on the Fauna of Curaçao and Other Caribbean Islands*. Assistant Curator Alan Solem, who was absent from the Museum until April for naval training, completed an annotated checklist of New Caledonian nonmarine shells, reported on a collection of snails from a New Caledonian river drift, published two papers on South Pacific marine shells, two papers on Indonesian and Australian landsnails, and a review of the biogeography of the New Hebrides (see page 108), and also started work on an eventual monograph of the nonmarine mollusks of Panama.

**DIVISION OF VERTEBRATE ANATOMY.** Curator Davis continued study of the comparative anatomy and evolution of the carnivores. With Associate Waldemar Meister he prepared a paper on the placentation and foetal membranes of a tree shrew, *Tupaia tana*. Research Associate R. M. Strong continued his study of the anatomy of birds.

## Accessions—Zoology

The extent to which our collections are growing is indicated by the material acquired during the year: mammals—1,271 specimens, birds—2,152 specimens, amphibians and reptiles—4,117 specimens, fishes—approximately 10,000 specimens, insects—87,727 specimens, lower invertebrates—more than 425,000 specimens, and anatomical

material—66 specimens. Some of these came from our expeditions (see page 40). Others were purchases, exchanges, or gifts that range from single specimens to comprehensive collections. Some of the more noteworthy items are mentioned here (materials received by the Department of Zoology during the year are listed at the end of this Report, page 121).

A collection of 968 specimens of reptiles and amphibians purchased from William Hosmer, of Melbourne, is not impressively large in numbers, but it is the sort of collection we like to acquire because its 250 species are remarkably selected and represent nearly three-quarters of the species known from Australia. Our herpetological representation from Formosa, which has a good endemic fauna, was practically nil until we began to identify reptiles and amphibians for Dr. Robert E. Kuntz, who is working on parasites and medical research there. During the past year we received, among other specimens, 1,248 reptiles and amphibians for our collection, a good representation of the Formosan fauna, in exchange for identifications.

We have had a replica of the strange coelacanth fish known as *Latimeria chalumnae* that was reconstructed from photographs and published measurements shortly after this "living fossil" was discovered in the Mozambique Channel. This year we purchased from the National Museum in Paris a plaster cast of an actual specimen. Differing in many details from the reconstruction, the cast gives a rather different and much better idea of this strange deep-water fish of which only about a dozen have been collected.

A notable gift of insects was made by Research Associate Seevers. The Museum recently published his monograph on the rove beetles that live with termites (*Fieldiana: Zoology*, volume 40, 1957), and Dr. Seevers has now donated to the Museum the collection on which this study was based. The collection contains 2,131 specimens, including the types of 68 species of these rare beetles, and is the most important and complete collection of its kind in existence. The true bugs (Heteroptera) were one of the favorite groups of the late Curator Emeritus William J. Gerhard. Before his death in December he gave us, from his private collection, a final lot of 1,065 North American Heteroptera. A purchase of 14,581 insects from the collector, Fritz Plaumann, of Brazil, is the raw material for much further research, containing as it does many specimens of the groups in which our specialists are interested. Some 41,700 insects collected by the Philippine Zoological Expedition of 1946-47 have been prepared and accessioned. This completes the accessioning of this collection, which amounts in its entirety to about 80,000 specimens.

About 21,300 insects and their allies, collected by Associate Curator Dybas on various field trips in the United States during the last six years, were also accessioned.

Mollusks were added to the collections at such a rate that the size of our collections was about doubled this year. The additions were acquired through purchases, gifts, and exchanges. Some of the additions were: more than 300,000 specimens representing about 18,000 species, a worldwide collection purchased from the estate of the late Charles D. Nelson of Grand Rapids, Michigan; about 75,000 specimens of nonmarine shells from the middlewestern United States, collected by the late A. C. Billups of Lawrenceburg, Indiana (purchase); a very complete synoptic set of Malayan and Indonesian nonmarine shells collected by Dr. F. F. Laidlaw of England (purchase); and a set of more than 8,000 Libya desert snails purchased from Dr. Rolf Brandt of Libya. An exceptionally fine series of cone and cowry shells was donated by Dr. Jeanne S. Schwengel of Scarsdale, New York, and a magnificent collection of some 7,000 marine shells, many of which are large and exceptionally beautiful in color and form, was given by the estate of the late Dr. C. W. Yarrington of Gary, Indiana (see pages 22 and 76).

### Care of the Collections—Zoology

Before a specimen is incorporated into our study collection, in no matter what group, the labeling must be checked and, where necessary, labels conforming to our standards added. This labeling enables us to tell whence any specimen came and when and by whom it was collected. We also like to have the name of the animal written on the label, so that anyone can tell what the animal is, and the name of the Museum, indicating our ownership.

Problems of labeling vary, as one might expect when such diverse objects as tiny seashells, elephant skins, leafhoppers, snakes, and fishes are handled and when some of the specimens are preserved wet, in pickle, others are dried in one piece, and yet others, like disarticulated skeletons, are composed of many small parts. In no group does this labeling require more painstaking care than in insects. The pin that holds the specimen may also carry four or even more labels (see page 75).

This labeling as well as other duties in the care of the collections are routine: poisoning to prevent ravages by insect pests, making sure that the preservative on each pickled specimen is adequate, and rearranging the collections to include new material. During the year

the staff has been aided in this work by several summer assistants, a number of volunteer assistants, and three Antioch College students (Miss Karin Krause, Miss Antoinette Martti, and Miss Jane Netting).

The purchase of 31 large dustproof, lightproof steel cases for filing study-specimens of mammals and birds allowed a slight expansion of both collections. In the resulting rearrangement the bats and the pigeons, parrots, plantain-eaters, and cuckoos were moved to more satisfactory quarters. Tanner Dominick Villa and Assistant Taxidermist Mario Villa prepared large and medium-sized mammal skins for the study collection. Assistant Pearl Sonoda continued the rearrangement, begun last year, of the fish collection.

In the Division of Insects there was great activity in handling our large recently acquired collections. Associate Nelson rearranged the entire beetle collection to conform to a modern system of classification and to provide space for expansion. The transfer and integration of the Knirsch collections of palearctic beetles (50,748 specimens), begun in 1957, and the Knirsch and Benesh collections of stag beetles (Lucanidae, 10,000 specimens) were completed, and transfer and integration of the Knirsch collection of cetoniid beetles (30,000 specimens) and the Brancsik world collections of beetles (74,467 specimens) were begun. There were combined operations in which Assistant August Ziemer and Associate Nelson, as well as other members of the staff, summer assistants, and volunteer assistants, took part. Curator Emeritus Gerhard had almost completed before his death the reorganization of the Orthoptera collections (katydids, grasshoppers, and others). Research Associate Seevers rearranged much of the Bernhauer Collection of rove beetles (Staphylinidae). Research Associate Alex K. Wyatt continued to identify and reorganize the North American butterflies and moths and to incorporate his own collection with that of the Museum.

The extremely large accessions of mollusks of the past two years have resulted in a tremendous backlog of cataloguing and labeling. Curator Haas has spent most of the year in this routine work, handling about 10,000 sets of shells (75,000 specimens), while Assistant Curator Solem prepared some 4,000 sets of shells for cataloguing.

Osteologist Sophie Andris has made good headway with providing cleaned skulls (1,100 mammal skulls) to meet the needs of the Division of Mammals and also prepared 43 skeletons, although there is a considerable number of skeletons yet to be cleaned for the Division of Vertebrate Anatomy. Assistant Phyllis Wade carried on much of the routine care of the collection in the Division of Vertebrate Anatomy and made illustrations for Curator Davis.



LABELLED  
INSECT SPECIMENS  
FROM OUR  
COLLECTIONS

PINNED INSECT  
WITH 4 LABELS

Sulu Taglawig,  
Moro, Tapam, Davao  
Prov., MINDANAO  
Oct. 15, 1946

CNFM Philippine  
Zool Exped. (1946-47)  
H-Hospital leg

original depar-  
tment forest

at sea  
level

LABELS  
ACTUAL  
SIZE



## Exhibits—Zoology

The revision of exhibits of reptiles and amphibians that has been going on for several years in Albert W. Harris Hall (Hall 18, Reptiles, Amphibians, and Insects) was nearly completed. The work, most of which was devoted to reorganization and reinstallation of eight cases so that all the Chicagoland reptiles and amphibians are brought together, has been the responsibility of Artist Joseph B. Krstolich, aided by Assistant Taxidermist Peter Anderson. Taxidermist Carl W. Cotton prepared a model of a gavial for the crocodylian case and has prepared a model of the giant alligator snapping turtle to go into a final case with the giant Galapagos tortoise, and this will complete the revision of these exhibits.

The fine marine shells presented to the Museum by the estate of the late Dr. C. W. Yarrington (see pages 22 and 73) provided much excellent material for a special exhibit in Stanley Field Hall (see page 26). Assistant Curator Solem and Artist-Preparator Samuel H. Grove, Jr. (Botany), prepared a series of exhibits that featured shells as parts of the living animals. For this, Artist Krstolich made models of the soft parts of the animals, and these models were painted by Miss Marion Pahl, Staff Illustrator. This is perhaps the first shell exhibit in an American museum to emphasize the living animal rather than the shells only.

Taxidermist Cotton and Assistant Taxidermist Anderson mounted the birds and prepared some of the decorations for a Christmas tree for birds that was used during December by Raymond Foundation (see page 34).

With the great amount of zoological material on exhibition in fourteen halls occasional repairs and renovations are necessary to keep the exhibits in first-class condition. The repairs may be small in themselves, but access to the cases, removal of the material, work on the material, reinstallation of the material, and then closing the cases are time-consuming both for taxidermists and for maintenance and engineering crews. This year renovation of two fish habitat-groups and a number of specimens in the systematic series of fishes has been the major repairwork.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND  
ILLUSTRATION

MOTION PICTURES

PUBLICATIONS AND  
PRINTING

MAINTENANCE, CONSTRUCTION  
AND ENGINEERING





## LIBRARY OF THE MUSEUM

The function of a special library is to secure, assemble, and present information in a specific field. It provides a service that makes available to an organization whatever information it can gather for the use of that organization's activities. Chicago Natural History Museum Library specializes in four fields of science. Intense specialization in all fields of knowledge and the marked increase in research activity in the sciences are reflected in the growth of the Library's collections. The problem today of keeping abreast of scientific literature, even in a small field of interest, is staggering. Selection and rejection become even more important in endeavoring to secure for the Library the most useful publications in the Museum's fields of interest. In addition to the books and journals purchased and received as gifts and through exchange (for a representative list of accessions see page 125), a tremendous amount of material arrives unsolicited. It is necessary to interpret and correlate the papers selected from this influx for the use of the readers served by the Library.

The items received in the Library during the year totaled 12,434. This figure includes 1,114 book-order receipts, 102 gift items, journals received on subscription and exchange, government publications, and miscellaneous pieces of literature. Volumes accessioned numbered 1,579 and 59 volumes were withdrawn. The sum of \$1,131.00 received from the sale of duplicate or unwanted items has been added to the Library book-purchase fund.

The East Asian Library has acquired a number of volumes dealing with metal and stone inscriptions to aid in the cataloguing of the Museum's large collections of Chinese rubbings (see page 46). The reciprocal exchange of publications with institutions, societies, and organizations, both foreign and domestic, continued as a major function of the Library (see page 99). New exchanges were established and, wherever necessary, older exchanges were revised. As in the past the Library's collections have been enriched by many important gifts. Grateful acknowledgment is made to the donors for their thoughtful contributions (donors are listed on page 125).

The map collection of the Library has grown tremendously over the years, principally because of the Army Map Service Map Depository Program. Many of the large maps were inaccessible to our scientific staff until suitable steel map-cases were installed during the year in the north end of the main reading room. In order that the maps may be readily available they have been temporarily arranged alphabetically under name of country.

The reference division was called upon to give service on a wide range of subjects at various levels of knowledge. Many inquiries are received by telephone and through the mail, and inquiries highly specialized in nature are turned over to the scientific staff. The card catalogue facilitates the work of the reference assistant and it also aids the researcher in his quest for information. Books circulated to readers using the main reading room totaled 2,410.

As has been customary, a great amount of material was lent to other libraries, organizations, and institutions, and many volumes were borrowed from co-operating libraries. If it is found that items, especially borrowed out-of-print material, would be useful in our permanent collection, microfilms are made. The number of volumes handled through interlibrary-loan service totaled 239.

The binding program has kept pace with the influx of books and periodicals, and in addition many volumes from the collections were rebound or repaired. The total number of volumes sent to the bindery during the year amounts to 1,000. The volumes labeled and repaired in the Museum Library number 6,211.

The 13,886 catalogue cards that were prepared, typed, and filed in the general, departmental, and divisional catalogues of the Library represent entries for new items, both books and runs of serial publications, and reclassified entries. Analytics (2,029) and appropriate card entries were made to index articles in journals and periodicals. The total number of new volumes added to the collection is 1,037, and 1,736 volumes were reclassified. Cataloguing the collection of books in oriental languages housed in the East Asian Library was continued by Dr. Hoshien Tchen, Consultant, East Asian Collection, who during the year catalogued approximately 140 titles consisting of more than 500 volumes.

As the number of journals and other serials now classified under the Library of Congress system in this Library has increased, 118 standing orders for complete analytics for monographs in these series have been placed with the Library of Congress Card Division, thus decreasing the original cataloguing to be done. Unfortunately the Library of Congress does not analyze the majority of foreign serials received by the Museum Library, and analytics for these, if required, must be composed by our cataloguer.

Although there remains a substantial backlog of uncatalogued material in both book and serial form because of a temporary shortage in personnel, temporary entries are filed in the general catalogue for books shortly after their receipt. These slips, stamped "not available until catalogued," serve the double purpose of providing a check to prevent accidental duplication of orders and of announcing



THE RARE BOOK ROOM  
MUSEUM LIBRARY

to users of the catalogue the arrival of the volumes in the Library. For serial publications the Kardex entry made at the time of receipt provides this check until the item is catalogued. The authorities file for authors' names has increased by the addition of 3,662 names. A beginning has been made on a similar file for corporate entries.

The Library is frequently called upon to translate into English correspondence and miscellaneous pieces of literature. During the year 149 such translations were made.

The steady growth of the Library's collections has exerted an inexorable pressure on the fixed capacity of stack space. Screening collections to dispose of what can have little or no permanent value has eliminated many items. Since substantially all the Library's space is in use, satisfying the need for additional space usually entails shifting study or laboratory areas of the scientific departments. The pressing need for additional stack space in the library of the Department of Anthropology had been a matter of concern for some time. This year a section of the room across the corridor from the anthropology library was cleared and new stacks installed. Approximately 25,000 volumes were transferred and rearranged, and all the volumes were thoroughly vacuum cleaned. The entire transfer, a major undertaking, was begun and completed during August by George Stosius, of the Library staff, and Chih-wei Pan, a temporary assistant who was employed for this purpose.

Another urgent project undertaken and completed during the year was reorganization and renovation of the Rare Book Room. Besides valuable books, drawings, paintings, and documents, many volumes are housed in this room because they deserve better protection than can be given in the general stack areas. An orderly and functional room was created by rearranging the cases housing the valuable collections, constructing additional shelves, and improving the lighting.

Care of the collections includes, of course, the arduous tasks of relieving crowding of the books and of keeping them clean. In order that the varied and valuable collections may be cared for properly, members of the Library staff set aside some time for basic house-keeping. Major transfers sometimes require outside help. With co-operation of Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, and the assistance of Miss Marimari Kellum, Antioch College student (see page 52), the collection of books and maps in the oriental languages on the shelves in the general library were transferred to the East Asian Library. Miss M. Susan Buehner and Miss Susan Davis, Antioch College students, ably assisted with the large-scale clerical activities in the Library.

## ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC SOCIETIES

George I. Quimby, Curator of North American Archaeology and Ethnology, who was retiring president of the Society for American Archaeology, and Dr. Donald Collier, Curator of South American Archaeology and Ethnology, attended the joint annual meetings in Norman, Oklahoma, of the Society for American Archaeology and the Central States Branch of the American Anthropological Association. Curator Quimby made the presentation speech for the Viking Fund Archaeology Medalist at a dinner given in New York by the Wenner-Gren Foundation for Anthropological Research. Curator Collier represented the Museum and the American Anthropological Association as official delegate at the Thirty-third International Congress of Americanists in San José, Costa Rica.

Dr. Paul S. Martin, Chief Curator of Anthropology, attended a conference (Wenner-Gren Foundation) at Indiana University on the place of museums in higher education. With Dr. John B. Rinaldo, Assistant Curator of Archaeology, he attended a conference on ceramics at the Museum of Northern Arizona, and Dr. Rinaldo attended the Pecos conference on Southwestern archaeology at the University of New Mexico. Dr. Martin, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Phillip H. Lewis, Assistant Curator of Primitive Art, attended the fifty-seventh annual meeting in Washington, D.C., of the American Anthropological Association, at which Assistant Curator Lewis presented a paper. Curator Force became a Fellow of the American Anthropological Association, the fifth member of our Department of Anthropology to be so honored. Assistant Curator Lewis was elected a Fellow of the Royal Anthropological Institute of Great Britain and Ireland. Allen S. Liss, Custodian of Collections, attended the Midwest Archaeological Conference in Springfield, Illinois, and the meetings in both Springfield and Urbana of the Illinois Archaeological Survey (he was elected a member of the board of directors).

Dr. Theodor Just, Chief Curator of Botany, attended a conference in New York sponsored by the New York Academy of Sciences, where he participated in a symposium on germfree vertebrates. He also attended the annual meeting of the American Institute of Biological Sciences in Bloomington, Indiana. As an active participant in the symposium on Fifty Years of American Paleontology held during the Jubilee Meeting in St. Louis of the Paleontological Society he spoke on "Progress in Paleobotany, 1908-1958." He attended the Conference of Biological Editors in

Washington, D.C., for which he continued as chairman of the committee for editorial policy. He also continued as a member of the International Committee on Paleobotanical Nomenclature and as a member of the program committee for paleobotany for the Ninth International Botanical Congress to be held in Montreal in 1959. He prepared the "Bibliography of American Paleobotany, 1952-1957" on behalf of the Paleobotanical Section of the Botanical Society of America.

Dr. Rainer Zangerl, Curator of Fossil Reptiles, Dr. Robert H. Denison, Curator of Fossil Fishes, and David Techter, Assistant in Fossil Vertebrates, attended a joint meeting in Ann Arbor, Michigan, of the Society of Vertebrate Paleontology and the Society for the Study of Evolution, where Curator Zangerl took part in a symposium on problems in vertebrate morphology and Curator Denison read a paper on the relationships of acanthodian and placoderm fishes. Both men also took part in the combined meetings in Washington, D.C., of the American Society of Zoologists and the American Society for the Advancement of Science. Curator Zangerl attended the annual meeting in St. Louis of the board of directors of the American Geological Institute, to which he had been appointed by the Society of Vertebrate Paleontology. William D. Turnbull, Assistant Curator of Fossil Mammals, attended in western Montana the Eighth Field Conference of the Society of Vertebrate Paleontology. Bertram G. Woodland, Associate Curator of Petrology, attended the annual meeting in St. Louis of the Geological Society of America.

Dr. Austin L. Rand, Chief Curator of Zoology, and Melvin A. Traylor, Jr., Assistant Curator of Birds, attended the meetings in New York of the American Ornithologists' Union, of which Emmet R. Blake, Curator of Birds, was appointed to the Committee on Classification and Nomenclature. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, and Assistant Hymen Marx attended the annual meetings in Bloomington of the American Society of Ichthyologists and Herpetologists, where Assistant Marx read a paper. Loren P. Woods, Curator of Fishes, attended the meetings of the Illinois Academy of Science at Urbana and judged the junior science exhibits. Dr. Edward M. Nelson, Associate in the Division of Fishes, presented papers at the American Institute of Biological Sciences in Bloomington and at the American Association for the Advancement of Science (Society of Morphology) in Washington, D.C. Rupert L. Wenzel, Curator of Insects, attended the meetings in Salt Lake City of the Entomological Society of America. Associate Curator Henry S. Dybas attended the meetings in St. Louis

of the North Central States Branch of the Entomological Society of America. Miss Lillian A. Ross, Associate in the Division of Insects and Associate Editor of Scientific Publications, attended the meetings of the American Institute of Biological Sciences in Bloomington and represented the Museum at the Conference of Biological Editors in Washington, D.C. Dr. Fritz Haas, Curator of Lower Invertebrates, and Dr. Alan Solem, Assistant Curator, attended the annual meeting of the American Malacological Union in Ann Arbor.

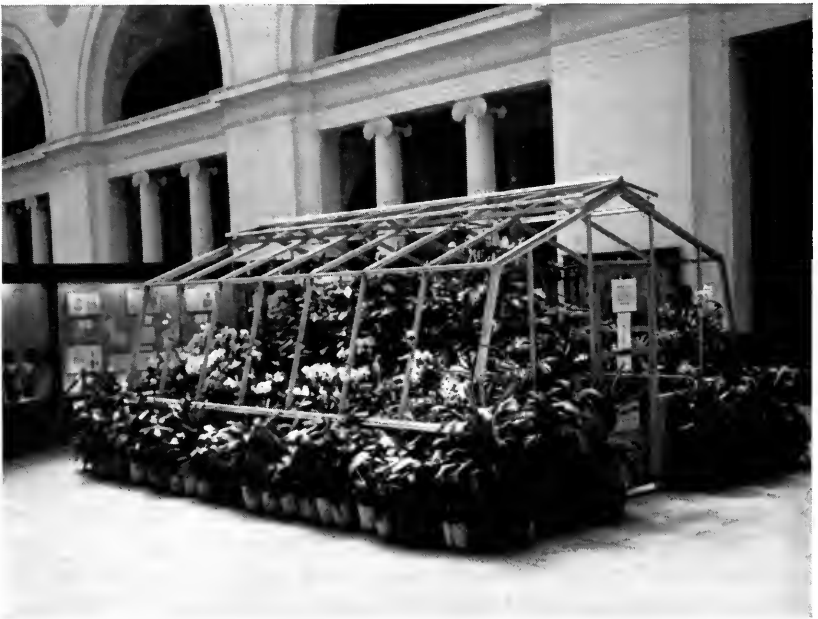
Philip Hershkovitz, Curator of Mammals, attended the Fifteenth International Zoological Congress in London (see page 68), where he participated in drafting the new International Code of Zoological Nomenclature, and was a speaker and panelist at the symposium on systematic zoology held in Washington, D.C., by the Society of Systematic Zoology. He also attended the annual meetings in Tucson, Arizona, of the American Society of Mammalogists, as did Miss Sophie Andris, Osteologist, and D. Dwight Davis, Curator of Vertebrate Anatomy, who continued to serve as a trustee of the society. Curator Davis presented two papers ("The Proper Goal of Comparative Anatomy" and "A Naturalist in the Tropics Today") at the Centenary Science Congress held at the University of Malaya, Singapore, in December to commemorate the work of Charles Darwin and Alfred Russel Wallace (he received a travel grant for this trip from the National Science Foundation).

John R. Millar, Deputy Director of the Museum, attended two conferences of administrative officers of research museums of natural history, one held at the Philadelphia Academy of Sciences in May and the other at New York State Museum, Albany, in October (both meetings were supported by grants from the National Science Foundation). Miss Miriam Wood, Chief of James Nelson and Anna Louise Raymond Foundation, attended the annual meeting in Kansas City of the Midwest Conference of Museums of the American Association of Museums. Meetings of the American Library Association and of Special Libraries Association were attended by Mrs. Meta P. Howell, Librarian, and Mrs. M. Eileen Rocourt, Associate Librarian. Mrs. Rocourt was program chairman of the Museum Division of Special Libraries Association during its annual convention held in Chicago in June, when she was elected vice-chairman of the Museum Division. Members of the Museum Division and the Geography and Map Division of the convention visited our Museum Library, where they were welcomed by the Director of the Museum, Dr. Clifford C. Gregg, who talked to them on "Collectors' Items," after which they were conducted on a general tour of Museum exhibits by Miss Wood, Chief of Raymond Foundation.

Curator Collier was appointed review editor of *American Antiquity*, Curator Inger was appointed associate editor of *Evolution*, Curator Woods was elected to the editorial board of *Copeia*, and Mrs. Rocourt, Associate Librarian, was elected editor of *Bulletin of the Museum*, Division of Special Libraries Association. Members of our Museum's scientific staff who continued to serve in various capacities on editorial boards of scientific journals include Curator Davis, *Copeia*; Chief Curator Just, *Lloydia* (editor); Associate Nelson (Division of Fishes), *Copeia*; Curator John W. Thieret (Division of Economic Botany), *Economic Botany*; Assistant Curator Turnbull, *Säugetierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

A number of members of the Museum's scientific staff contribute reviews and articles to various learned journals or write books on subjects within the Museum's fields of interest and research. A bibliography of some of this material in 1958 is on page 106.

Orchid display in Stanley Field Hall  
sponsored by the Illinois Orchid Society  
(see pages 26 and 56)





## CO-OPERATION WITH OTHER INSTITUTIONS

In accordance with its custom, the Museum seized many opportunities to work with other institutions and with scholars from other institutions in pursuit of our mutual objectives.

The Museum continued its close co-operation with the Philippine Studies Program at the University of Chicago (see Annual Report 1956, page 74). Evett D. Hester, who now is devoting his full time to duties as Associate Director of the Philippine Studies Program, was succeeded during the year as Thomas J. Dee Fellow in Anthropology at the Museum by Alfredo Evangelista of the Philippine National Museum in Manila (see pages 38 and 116). The exhibition of Chinese rubbings arranged under the sponsorship of the Renaissance Society in its galleries at the University of Chicago by Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, was the occasion of two talks by him on the subject of rubbings, one to members of the Renaissance Society and the other to guests of the Midwest Chinese Student and Alumni Services. Through the co-operation of Dr. Hoshien Tchen, Consultant, East Asian Collection, and Curator Starr the Museum participated in a census of library holdings in Asiatic languages in the United States, a survey that was sponsored by the American Library Association.

On the evening of April 8 the Society for Contemporary American Art held a special dinner in the Museum (see page 109) and a program that included a talk on primitive art by Phillip H. Lewis, Assistant Curator of Primitive Art, and guided tours of selected art exhibits in the Museum by Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, Curator Starr, and Assistant Curator Lewis. During the summer Dr. Douglas Newton and Myron O'Higgins, both of the new Museum of Primitive Art in New York, visited this Museum to select photographs from our many albums for the collection that Mr. O'Higgins, who is the photograph archivist, is making for the Museum of Primitive Art. Miss Grace Ramke, faculty member at Louisiana State University, is working under a grant from the Ford Foundation to delineate the aesthetic principles of African art, a project that is being carried on at Northwestern University and this Museum.

Conferences on the "Transition from Food Collecting to Food Producing in the Old and New Worlds" were held at the Museum in the fall in co-operation with the University of Chicago, Northwestern University, Illinois State Museum, Southern Illinois University, and the Wenner-Gren Foundation for Anthropological

Research. Curator Quimby taught a course at the University of Chicago on prehistory and paleogeography of the Upper Great Lakes region and gave a series of lectures at the Central YMCA on Chicago (11,000 B.C.). Curator Collier taught a course at the University of Chicago on the rise of civilization, Assistant Curator Lewis lectured on primitive art at the Institute of Design of Illinois Institute of Technology, and Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spoke at a meeting of the Anthropology Club of the University of Illinois. Classes in anthropology from Wright Junior College (Chicago) visited the Museum.

Dr. Theodor Just, Chief Curator of Botany, conducted a seminar-lecture for the Department of Biology of Saint Louis University and was asked to serve as consultant in preparation of the "Catalogue of Fossil Spores and Pollen" that is being published in several volumes by Pennsylvania State University. He was installing officer of the Sigma Xi Club at Northern Illinois University, giving the major address, and talked about the Stanley Field Collection of Plant Models (see page 23) on a television program on April 9 (WMAQ-NBC). J. Francis Macbride, Curator of Peruvian Botany, was made an Honorary Professor of the University of San Marcos during the recent South American Botanical Congress in Lima, Peru. Samuel H. Grove, Jr., Artist-Preparator, was appointed by the De Kalb (Illinois) Agricultural Association to design and install their corn exhibit for the Tenth International Congress of Genetics held in August in Montreal. A class in botany ("The Plant Kingdom") conducted at the University of Chicago by Dr. Barbara F. Palsler and Dr. Paul Voth spent an afternoon in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life) and in the herbaria. Other university classes visiting the Museum and continuing to use the herbaria and the botany library came from De Paul University, Michigan State University, and Valparaiso University.

During the year the Museum entered into an exchange of geological specimens with Museo Civico of Milan, Italy, which suffered severely during World War II and is now engaged in rebuilding its exhibit and study collections. The graduate course in vertebrate paleontology of the University of Chicago was conducted, as in past years, by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the university and Research Associate on the Museum's staff. Dr. Robert H. Denison, Curator of Fossil Fishes, lectured at the University of Chicago before a seminar on evolution and at the University of Illinois College of Pharmacy before a seminar on paleoecology, and William D. Turnbull, Assistant Curator of Fossil Mammals, talked before graduate students and staff members of

the University of Illinois. Albert W. Forslev, Associate Curator of Mineralogy, presented a paper on X-ray diffraction and spectrographic techniques in forensic problems at the homicide workshop held in the Museum by the Society of Forensic Pathologists and was a judge of mineral exhibits at the Phoenix (Arizona) Gem and Mineral Show sponsored by the Rocky Mountain Federation of Mineral Societies and at the Midwest Gem and Mineral Show sponsored by the Midwest Federation of Mineral Societies held in Downers Grove (Illinois). A class in mineralogy from the University of Illinois (Chicago undergraduate division) spent an afternoon in the William J. and Joan A. Chalmers Mineralogical Laboratory, where they were given a demonstration of X-ray diffraction procedures in mineralogical analysis by Associate Curator Forslev. On two occasions, when classes in zoology from Indiana University and a class in geology from the University of Wisconsin visited the Museum, Dr. Rainer Zangerl, Curator of Fossil Reptiles, lectured on paleontology.

Philip Hershkovitz, Curator of Mammals, gave a lecture on the classification of New World primates to graduate students in physical anthropology at the University of Chicago. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, who has been appointed to the Committee on Paleozoology at the University of Chicago, lectured for the Zoology Club of the University of Chicago and for the Department of Zoology of the University of Texas. Rupert L. Wenzel, Curator of Insects, held seminars for the Department of Anatomy of the University of Illinois and the Department of Biology of Northwestern University. Henry S. Dybas, Associate Curator of Insects, lectured for the Department of Entomology of the University of Illinois, the Conservation Council, the Chicago Entomological Society, and the Biology Club of Thornton (Illinois) Fractional High School and attended meetings in Washington, D.C., of the American Mosquito Control Association. D. Dwight Davis, Curator of Vertebrate Anatomy, who has been appointed to the Scientific Advisory Committee of the Chicago Zoological Society, lectured at the University of Chicago before a class in physical anthropology and conducted a seminar at the University of Illinois College of Medicine on the masticatory apparatus in mammals.

A combined group that included the advanced entomology class of the University of Illinois, the field biology class of Northwestern University, the field zoology class of Roosevelt University, and the Chicago Entomological Society spent a day in the Division of Insects. Following a talk by Curator Wenzel on Museum collections and research, the group was taken on guided tours. Other classes that spent a day in the Division of Insects under the guidance of

members of the staff were from Purdue University (graduate students in systematics) and the University of Illinois College of Pharmacy. High-school science teachers' summer institute of Marquette University sent a class for a lecture by Curator Inger and a tour of the Division of Amphibians and Reptiles. Dr. Albert Wolfson brought a class from Northwestern University for a lecture and tour of the Division of Birds. Biology classes from the University of Wisconsin and the University of Illinois (Urbana) visited the Division of Fishes. A class in physical anthropology from the University of Chicago was given an afternoon's tour of the Department of Zoology by Curator Davis.

Among other universities and colleges that continued their use of the Museum were George Williams College, Illinois Institute of Technology, Loyola University, McMaster University (Canada), Morton Junior College, North Park College, and Wheaton College. Supervised classes of art students continued to use the Museum exhibits as a part of their classroom work in sketching, painting, and modeling, and results of this were placed on special exhibition in Stanley Field Hall in the spring (see page 26). The Chicago Science Fair (sponsored by Chicago Teachers Science Association), a show in which students of grades six through twelve from all schools within a 35-mile radius of Chicago are eligible, was held at the Museum on Saturday, May 17.

This Museum is one of a number of institutions selected by Medill School of Journalism of Northwestern University to give its students actual experience as working newspaper men and women. Students are sent each week on assignments to gather news material that they use to prepare stories as "lab work" in their classes. Co-operation and the benefit of experience are extended to them by H. B. Harte, Public Relations Counsel, and Miss Patricia McAfee, Assistant. Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) sixteen young men and women were employed in 1958 by the Museum in its scientific departments, Library, and Raymond Foundation.

Among visitors in the Department of Anthropology during the year were Dr. Daniel F. Rubin de la Barbolla, Mexico City; Dr. Chêng Tê-k'un and Dr. Joan E. van Lohuizen-de Leeuw, Cambridge University; Dr. Chou Wên-chung (Guggenheim Fellow), Rye, New York, Dr. Fay-Cooper Cole, Santa Barbara, California; Dr. E. B. Danson and Dr. Harold Colton, Museum of Northern Arizona; Dr. Raymond Dart, University of the Witwatersrand (South Africa); Dr. Kristjan Eldjarn, National Museum of Iceland; Dr. Chang Kwang-chih and Dr. Eliot Elisofon, Peabody Museum; William



ASSOCIATE CURATOR DYBAS WORKING WITH  
MODIFIED BERLESE FUNNELS USED FOR  
EXTRACTING MINUTE INSECTS FROM LEAF LITTER

Fagg, British Museum (London); Dr. Gutorm Gjessing, Universitetets Etnografiske Museum (Oslo); Roger Grange, Nebraska State Historical Society; Maxwell Hahn, Field Foundation, New York; the Reverend L. W. Henderson, Lobito, Angola; Dr. Donald Herold, Davenport Public Museum; Dr. Douglas Newton and Myron O'Higgins, Museum of Primitive Art; Dr. Paul L. Hubbs and Dr. Richard Rudolph, University of California; Miss Mary Elizabeth King, Textile Museum (Washington, D.C.); Professor Kuan Kung-tu, T'aiwan Normal School (China); Colonel Dammon Lebehabeul (Director of Operations of Royal Thai Army), Bangkok; Dr. Li Chu-ting, State University of Iowa; Miss Alice Marriot, Stovall Museum of Science; Dr. Edgar Negret, Columbia University; Dr. José G. Niset, Coquille, Belgium Congo; Mrs. Webster Plass, Philadelphia; Dr. Alfred Salmony, New York; Dr. Douglas W. Schwartz, University of Kentucky; Dr. Verena Turdel, Swiss National Museum (Zurich); Dr. B. Wennberg, National Museum (Stockholm); Mrs. Elizabeth Bayley Willis, University of Washington (Seattle); and Professor Yang Liang-kung, T'aiwan, China.

Visiting botanists included Paul Allen, Kirkwood, Missouri; Dennis Anderson and Dr. Richard W. Pohl, Iowa State College; Dr. Howard Arnott, Carl Keeler, and Dr. Albert Wolfson, Northwestern University; Dr. Fred Barkley, Morristown, New Jersey; R. A. Baugh, Monee, Illinois; Dr. Alan Beetle, University of Wyoming; Professor W. H. Bucher, Columbia University; John Clay and Dr. and Mrs. Harold St. John, Hawaii University; Sister M. Clement, O.P., Saint Louis University; Professor Robert Cosby, Dr. Lawrence Kaplan, and John Metcalfe, Roosevelt University; Dr. Arthur Cronquist, New York Botanical Garden; Dr. V. R. Dnyansagar, Dr. N. Hickey, and Dr. Jonathan Sauer, University of Wisconsin; Dr. Wilbur H. Duncan, University of Georgia; Dr. O. J. Eigsti and Miss Etsu Isi, Chicago Teachers College; Dr. Alfred Emerson, Dr. Barbara F. Palser, Dr. Robert Schaeffer, and Dr. Paul Voth, University of Chicago; Dr. Alvaro Fernandez, Bogotá, Colombia; Dr. Magnus Fries, Uppsala, Sweden; Dr. George W. Gillett and Philip Halecki, Michigan State University; Dr. W. Greulach, University of North Carolina; Dr. Mason Hale and Dr. Velva E. Rudd, United States National Museum; Professor J. C. Hawkes, University of Birmingham (England); Mrs. Leslie Higgs, Nassau; Dr. J. W. Hudson and Miss Priscilla Perry, Loyola University; Mr. and Mrs. G. A. Huggins, Baltimore; Dr. John Ingram, Bailey Hortorium; Dr. Robert M. Johns, Dr. Kenneth L. Jones, and David Lellinger, University of Michigan; Loring Jones and Leo Olson, De Kalb Agricultural Association; Mrs. Mildred Mathias,

University of California; Mrs. M. C. Morris, Hiram, Ohio; Dr. G. R. Northup, St. Louis; Professor James R. Rees, Anderson College; Robert Reich, De Paul University; Werner Reisstreck, Ft. Wayne, Indiana; Dr. Claude M. Rogers, Wayne State University; J. M. Rominger and Kenneth Rus, University of Illinois (Urbana); Dr. Richard Evans Schultes, Charles Schweinfurth, and Mrs. Claude Webber, Harvard University; Dr. Richard A. Scott, Denver; the Reverend Urban J. Siegrist, Saint Joseph College; Dr. Rolf Singer, Fundacion Miguel Lillo (Tucuman, Argentina); Tom Soderstrom, Yale University; David Teshler (Consulate General of Israel), Chicago; Dr. Alfred Traverse, Houston; Dr. Rolla Tryon, Gray Herbarium; Dr. Néstor Uscátegui, Bogotá, Colombia; Robert VanTress, Garfield Park Conservatory, Chicago; Jean-Pierre Wacquent, Université de Paris a la Sorbonne; Eric Wählich, Bremen, Germany; Eric Walther, California Academy of Sciences; Mrs. I. B. Wasson, Morton Arboretum; Dr. R. L. Wilbur, Duke University; and Archie F. Wilson, Summit, New Jersey.

Visiting geologists included Dr. Robert S. Bader, John S. Hall, and Dr. Joe A. Tihen, University of Illinois (Urbana); Dr. Noemi Cattoi, Buenos Aires, Argentina; Dr. Basil Cooke, University of the Witwatersrand (South Africa); Marvin Cooper and Dr. Max K. Hecht, Queens College; Dr. Edwin C. Galbreath, Southern Illinois University; Donald G. Herold, Davenport Public Museum; Dr. Nikolas Hotton III, University of Kansas; Dr. Ernest Lundelius, Jr., University of Texas; Dr. Juan José Parodiz, Carnegie Museum; Dr. James H. Quinn, University of Arkansas; Dr. Charles A. Reed, University of Illinois College of Pharmacy; Dr. Bobb Schaeffer and Walter Sorensen, American Museum of Natural History; Dr. Bertram Schultz, University of Nebraska State Museum; Morris F. Skinner and Beryl E. Taylor, Frick Laboratory (American Museum of Natural History); Dr. Robert E. Sloan, University of Minnesota; Dr. Peter P. Vaughn, United States National Museum; and Dr. Gerd Westermann, McMaster University (Canada).

Visiting zoologists included Burton Adlerblum, Sheldon Applegate, Harold Kerster, John Pierce, and Stephen Weinstein, University of Chicago; Dr. Richard D. Alexander, James Organ, C. Lavett Smith, Jr., and Thomas Uzzell, University of Michigan; Dr. R. W. Alrutz, Denison University; William W. Anderson, Frederick H. Berry, and Dr. David C. Caldwell, United States Fish and Wildlife Service, Brunswick, Georgia; Dr. Alfred M. Bailey (Director), Denver Museum of Natural History; Dr. Edward C. Becker, Dr. A. Chant, and Dr. J. Chillcott, Canada Department of Agriculture (Ontario); Dr. William J. Beecher (Director), Dr. Joseph Camin, and Dr.

Paul Ehrlich, Chicago Academy of Sciences; H. M. Bower, Wausau, Wisconsin; Miss Margaret G. Bradbury, Hopkins Marine Station; Dr. Pierce Brodkorb and Dr. Rodger Mitchell, University of Florida; Carlos Bumzahem (College of Medicine) and Dr. E. Lloyd DuBrul (College of Dentistry), University of Illinois; Frank Cassel, North Dakota State Agriculture College; Dr. L. Chandler and Dr. Ray Everly, Prudue University; Dr. William Clay, University of Louisville; Dr. Rezneat Darnell and C. F. Dineen, Marquette University; D. Davis and Barry Valentine, Cornell University; Professor A. DeBont, Université Lovanium (Belgian Congo); Mrs. Myvanwy Dick, Museum of Comparative Zoology; Dr. Gerhard Dieke, Johns Hopkins University; Dr. Herndon Dowling, University of Arkansas; Dr. William Duellman, Wayne State University; Dr. Nobuo Egami, Tokyo University (Japan); G. E. Eriksen and Stanley Rand, Harvard University; Dr. Alvaro Fernandez, Instituto de Ciencias Naturales (Colombia); William Fitzwater, Indiana Fish and Wildlife Service; M. J. Fouquette, University of Texas; Consul George Frey, G. Frey Museum (Germany); Dr. Carl Gans, University of Buffalo; Dr. and Mrs. Richard Graber and Dr. Harlow B. Mills, Illinois State Natural History Survey; Professor Melville Hatch, University of Washington (Seattle); Dr. Max Hecht, Queens College; Dr. Earl S. Herald, Steinhart Aquarium; Dr. David Kistner, University of Rochester; Dr. Karl Koopman, Academy of Natural Sciences; Dr. Maxime LaMotte, Ecole Normale Supérieure (Paris); Stuart Landry, University of Missouri; Dr. Alan Leviton, California Academy of Sciences; Dr. Robert Metz, Northwestern University Medical School; Bryant Mather, Jackson, Mississippi; Randolph L. Peterson, Royal Ontario Museum (Toronto); William H. Phelps, Caracas, Venezuela; Dr. Cornelius B. Philip, Hamilton, Montana; Karl Plath and Dr. George Rabb, Chicago Zoological Society; Dr. W. J. Price, University of Notre Dame; Dr. Gerbert Rebell, New Brunswick, New Jersey; Dr. Charles A. Reed, University of Illinois College of Pharmacy; Professor and Mrs. L. R. Richardson, Victoria University College (New Zealand); Dr. J. T. Salmon, University of Wellington (New Zealand); Ram Singh, British Guiana Museum and Zoo (Georgetown); Dr. Royal D. Suttkus, Tulane University of Louisiana; Dr. Tohru Uchida, Sapporo, Japan; Jared Verner, Louisiana State University; Dr. George Wallace, Michigan State University; Harlen Walley, Sandwich, Illinois; Miss Joan Walters, Morton Grove, Illinois; Dr. Albert Wolfson, Northwestern University; and Dr. R. Woodruff, Gainesville, Florida.

In addition, there were, of course, many visitors to all scientific departments from the Chicago area.



## PUBLIC RELATIONS

Because of their great appeal to the imagination of the public and the striking impression they make in pictorial presentations, dinosaurs were again the focus of much of the Museum's publicity. The completion of the huge *Brontosaurus* skeleton (see page 21) resulted in publicity comparable to that which greeted the *Gorgosaurus-Lambeosaurus* exhibit at the time of its installation in Stanley Field Hall (see Annual Report 1956, page 24). In fact, the *Chicago Sun-Times* revived interest in the older group with a half-page color picture. Other Museum events that received major coverage were the fiftieth anniversary of President Stanley Field as presiding officer of the Board of Trustees (see page 23) and the acquisition of the famed Fuller Collection (see page 21).

More than 230 news releases were circulated by the Division of Public Relations during the year. The Museum's monthly *Bulletin*, in addition to its primary function as a liaison between the Museum and its membership, serves also as a supplementary release of Museum information, and many of its articles and pictures are reprinted in newspapers and magazines and mentioned in broadcasts. An outstanding example was a page of pictures of the Stone Age dioramas in Hall C published in the *Chicago Daily News*. Several feature stories and a layout of photographs in the *Chicago Tribune* related to the constant flow of gifts of material from all over the world for the collections of the scientific departments.

Radio and television stations and networks as well as the press showed gratifying interest in the Museum and its activities and have been highly co-operative in their reception of news material distributed by the Museum, frequently following up Museum releases or originating their own stories based on material in the exhibits or study collections. The *Chicago American* has been especially responsive in picture-coverage of Museum events. The inauguration by the *Chicago Daily News* in October of a new rotogravure magazine called *Weekend* has provided an especially welcome and effective vehicle for announcements of current events, special events, lectures, and programs for children. The editors of this magazine have been most co-operative, and the Museum had material published in it almost every week.

With the constant publishing and broadcasting of Museum news and the reiteration of the Museum's name in this connection, it is believed that no Chicagoan can remain unaware of the institution's existence and its program for education and public service. Most of the major publicity stories are also carried nationally (and even

internationally) by the wire services of the Associated Press and United Press-International, thus reaching vast numbers of persons who at one time or another may come to Chicago and, while here, to the Museum.

In radio and television the Museum acknowledges the co-operation of the networks (American Broadcasting Company, Columbia Broadcasting System, and National Broadcasting Company) and more than sixty independent local stations, large and small, throughout the Chicago area. Especially effective because of their appeal to that segment of the public most interested in cultural and educational fields have been the almost daily announcements of Museum activities on the program "Tomorrow" of the noncommercial television station WTTW (Channel 11) and on radio station WFMT, which, in addition, gives much space to the Museum in its monthly *Fine Arts Guide*.

The Museum benefits also from the courtesies of other kinds of organizations. In particular, placards advertising the Edward E. Ayer Foundation lectures for adults and the Raymond Foundation programs for children were displayed without charge, as for many years past, in stations of the Chicago and North Western Railway, the Chicago Transit Authority, and the Illinois Central System. There are also listings of Museum events throughout each year in *Headline Events in Chicago*, published monthly by the Chicago Association of Commerce and Industry, and *Chicago Exhibitions Calendar*, published quarterly by the Adult Education Council.

## MOTION PICTURES

Cataloguing and accessioning all film subjects as well as labeling and relabeling all film storage-cans in the vault room were brought up to date. Many films were screened in order to study subjects and techniques that might be incorporated into our own productions. In March, John Moyer, Chief of the Division of Motion Pictures, attended the Twelfth Annual Workshop conducted by the Calvin Company of Kansas City, where techniques in production of educational motion-pictures were studied and the results screened. This workshop gives to motion-picture producers and other interested persons the opportunity to see and study the latest in educational teaching-film. "Yellowstone," a film made by John Moyer, was chosen by the educational division of the State Department as one of a small group of outstanding travel pictures to represent the United States in showings at the international world's fair in Brussels.

SEPIK RIVER  
NEW GUINEA

CEREMONIAL  
PLAQUE



FROM THE  
SPECIAL EXHIBIT  
IN  
STANLEY FIELD HALL

"WHAT IS PRIMITIVE ART?"

During the year the Museum's film production "Through These Doors" was constantly on loan to various organizations and schools as an educational service of the Museum. Because this film was produced in 1950 and many of the scenes are now out-dated, an entirely new film will be produced to take its place. Work on the new film is now in progress, and it should be ready for public showing and use during the coming year.

Inspection, cleaning, and repair of films was carried on. Such work is necessary to keep in perfect condition the Museum's Film Library, which now numbers 101 complete productions and thousands of feet of additional film on miscellaneous subjects. New and replacement titles and sections of films damaged from constant use were photographed and edited into their respective productions. Films were sent out on loan to other institutions that requested them for use as teaching aids in classroom study.

## PHOTOGRAPHY AND ILLUSTRATION

It has always been a matter of deep satisfaction that we do not need to go beyond our own staff to get photographic material for our publications and exhibits. The Division of Photography prepared about 1,500 negatives during the year and nearly 21,000 contact prints. Enlargements, lantern slides, and kodachromes account for an additional 2,300-odd items. A quantity of this material is sold to the public for many purposes, much of it being used to illustrate encyclopaedias, textbooks, and feature articles in magazines. During the year distribution of color transparencies of our exhibits was begun through the General Biological Supply House, a large organization that supplies schools and colleges throughout the world with materials for biological education. The co-operative endeavor extends to students anywhere the use of our Museum exhibits. A significant enlargement of the Museum's usefulness in science education is anticipated through this medium.

It is convenient, saves time, and makes for both efficiency and economy in the operation of the Museum to have available for consultation our own artists, who have been trained in museum techniques and are aware of our publication and exhibition problems. The Division of Illustration produced during the year more than 170 drawings for publication (among them two double-page layouts and a cover for Chicago Natural History Museum *Bulletin* and illustrations of animal material ranging from seashells and lizards to birds and mammals) and accomplished a great many miscel-

laneous assignments (including slides for presentation on television, layouts for exhibits, paintings for exhibition, posters, maps, charts, and retouched negatives). E. John Pffner, Staff Artist, completed a painting of *Gunnera magnifica*, a most unusual tropical plant, for the series of murals (see page 56) in Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life). Miss Marion Pahl, Staff Illustrator, spent a great amount of time in preparing drawings of histerid beetles to illustrate a Museum publication, painstaking work that entails constant use of the microscope and calls for extreme care and infinite patience as well as the ability to turn out precise and accurate material as an aid to scientific study.

## PUBLICATIONS AND PRINTING

For the third successive year a new record in gross income from the sale of Museum publications was achieved. In addition, the distribution of publications without charge through exchange agreements with other scientific institutions reached a new peak. A total of 75,715 copies was distributed, of which 22,340 were sent out as exchanges and 53,375 were sold. The increased burden from the continually increasing quantities of publications distributed was handled smoothly and efficiently through the splendid teamwork of Raymond A. N. Gomes and Miss Hilda Nordland of the Division of Publications.

The increased production itself called for co-operation of our many authors with Associate Editors Lillian A. Ross and Helen A. MacMinn and Assistant Editor Martha H. Mullen. All employees in the Division of Printing may well be proud of their part in the expanding publications program.

The Museum issued during the year twenty-nine publications in its scientific series, one in its popular series (reprint), two handbooks (one a reprint), one guidebook, and one annual report. Of these, the number of copies printed by the Museum Press totaled 43,268 from 2,104 pages of type composition. Twelve numbers of *Chicago Natural History Museum Bulletin* were printed, averaging 7,250 copies an issue. Other work included posters, price lists, lecture schedules, programs, labels for exhibits, picture postcards, stationery, specimen tags, and Museum Stories (see page 32), totaling 1,069,799 impressions.

Publications issued by the Museum in 1958 are listed on the following pages. Titles of articles by staff members printed in volume 29 of the Museum's *Bulletin* are also given.

## MUSEUM PUBLICATIONS IN 1958

### ADMINISTRATIVE PUBLICATION

*Report of the Director to the Board of Trustees for the Year 1957*, 164 pages,  
26 illustrations

### DEPARTMENT OF ANTHROPOLOGY

QUIMBY, GEORGE I.

*Indians of the Western Frontier, Paintings of George Catlin*, Handbook,  
Anthropology, 78 pages, 35 illustrations (reprint)

THOMPSON, J. ERIC S.

*The Civilization of the Mayas*, Popular Series, Anthropology, number 25,  
98 pages, 36 illustrations, 1 map (sixth edition)

### DEPARTMENT OF BOTANY

MCVAUGH, ROGERS

*Flora of Peru*, Botanical Series, volume 13, part 4, number 2, 253 pages

SCHWEINFURTH, CHARLES

*Orchids of Peru*, Fieldiana: Botany, volume 30, number 1, 268 pages,  
45 illustrations, 1 map

STANDLEY, PAUL C., AND JULIAN A. STEYERMARK

*Flora of Guatemala*, Fieldiana: Botany, volume 24, part 1, 488 pages,  
121 illustrations

### DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

*Early Devonian Fishes from Utah, Part III. Arthrodira*, Fieldiana: Geology,  
volume 11, number 9, 93 pages, 31 illustrations

GOIN, COLEMAN J., AND WALTER AUFFENBERG

*New Salamanders of the Family Sirenidae from the Cretaceous of North America*,  
Fieldiana: Geology, volume 10, number 33, 11 pages, 3 illustrations

OLSON, EVERETT CLAIRE

*Fauna of the Vale and Choza: 14; Summary, Review, and Integration of the  
Geology and the Faunas*, Fieldiana: Geology, volume 10, number 32, 52 pages,  
11 illustrations, 1 map

### DEPARTMENT OF ZOOLOGY

BENESH, BERNARD

*Philippine Zoological Expedition 1946-1947, Stag Beetles (Coleoptera: Lucani-  
dae)*, Fieldiana: Zoology, volume 42, number 5, 13 pages, 1 illustration

BLAKE, EMMET R.

*Birds of Volcán de Chiriquí, Panama*, Fieldiana: Zoology, volume 36,  
number 5, 81 pages, 1 map

DAVIS, D. DWIGHT

*Mammals of the Kelabit Plateau, Northern Sarawak*, Fieldiana: Zoology, volume 39, number 15, 29 pages, 1 illustration, 1 map

*Tarsal Ligaments of the Spectacled Bear Tremarctos ornatus*, Fieldiana: Zoology, volume 39, number 13, 15 pages, 7 illustrations (2 in color)

EMERSON, K. C., AND RONALD A. WARD

*Philippine Zoological Expedition 1946-1947, Notes on Philippine Mallophaga, I. Species from Ciconiiformes, Anseriformes, Falconiformes, Galliformes, Gruiformes and Charadriiformes*, Fieldiana: Zoology, volume 42, number 4, 13 pages, 1 illustration

GREY, MARION

*Descriptions of Abyssal Benthic Fishes from the Gulf of Mexico*, Fieldiana: Zoology, volume 39, number 16, 35 pages, 7 illustrations, 10 tables

HERSHKOVITZ, PHILIP

*A Geographic Classification of Neotropical Mammals*, Fieldiana: Zoology, volume 36, number 6, 42 pages, 2 maps, 13 tables

INGER, ROBERT F.

*A Note on the Philippine Frogs Related to Rana macrodon*, Fieldiana: Zoology, volume 39, number 23, 3 pages

*Notes on Fishes of the Genus Brachygnathus*, Fieldiana: Zoology, volume 39, number 14, 11 pages, 2 illustrations

*Three New Skinks Related to Sphenomorphus variegatus (Peters)*, Fieldiana: Zoology, volume 39, number 24, 12 pages, 5 illustrations, 1 table

JEWETT, STANLEY G., JR.

*Philippine Zoological Expedition 1946-1947, Stoneflies from the Philippines (Plecoptera)*, Fieldiana: Zoology, volume 42, number 6, 11 pages, 8 illustrations

JOBLING, B.

*Streblidae from Yemen, With Description of One Subspecies of Ascodipteron (Diptera)*, Fieldiana: Zoology, volume 39, number 17, 5 pages, 1 illustration

MARX, HYMEN

*Catalogue of Type Specimens of Reptiles and Amphibians in Chicago Natural History Museum*, Fieldiana: Zoology, volume 36, number 4, 90 pages

*Egyptian Snakes of the Genus Psammophis*, Fieldiana: Zoology, volume 39, number 18, 10 pages, 2 illustrations, 3 tables

MEDEM, FREDERICK J.

*The Crocodilian Genus Paleosuchus*, Fieldiana: Zoology, volume 39, number 21, 21 pages, 5 illustrations

RAND, AUSTIN L.

*The Races of the Bush Shrike Dryoscopus cubla*, Fieldiana: Zoology, volume 39, number 12, 3 pages

*Notes on African Bulbuls, Family Pycnonotidae: Class Aves*, Fieldiana: Zoology, volume 35, number 6, 78 pages

RAND, AUSTIN L., AND D. S. RABOR

*The Races of the Shrike Lanius validirostris*, Fieldiana: Zoology, volume 39, number 11, 2 pages

SCHMIDT, KARL P.

*Some Rare or Little-known Mexican Coral Snakes*, Fieldiana: Zoology, volume 39, number 19, 12 pages, 3 illustrations

MUSEUM PUBLICATIONS IN 1958

SMITH, ELLEN THORNE

*Chicagoland Birds, Where and When to Find Them*, Handbook, Zoology, 48 pages (maps and drawings by William J. Beecher)

SOLEM, ALAN

*Marine Mollusks from Bougainville and Florida, Solomon Islands*, Fieldiana: Zoology, volume 39, number 20, 14 pages

STROHECKER, H. F.

*Philippine Zoological Expedition 1946-1947, A Synopsis of Philippine Endomychidae (Coleoptera)*, Fieldiana: Zoology, volume 42, number 3, 30 pages, 10 illustrations

TRAYLOR, MELVIN A., JR.

*Birds of Northeastern Peru*, Fieldiana: Zoology, volume 35, number 5, 57 pages

WOODS, LOREN P.

*A New Genus and Species of Fish from the Gulf of Mexico (Family Emmelichthyidae)*, Fieldiana: Zoology, volume 39, number 22, 4 pages, 1 illustration

CHICAGO NATURAL HISTORY MUSEUM GUIDEBOOK

*General Guide, Chicago Natural History Museum*, 48 pages, 32 illustrations, floor plans, map (thirty-seventh edition)

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

*Bible Animals*, Museum Stories (9 stories, of which 8 stories [1958] are reprinted), 21 pages, 9 illustrations, paperbound

BUCHWALD, JUNE, AND HARRIET SMITH

*Children of Indian America*, Museum Stories (9 stories [1949] reprinted), 21 pages, 9 illustrations, paperbound

FLEMING, EDITH

*Africa and Its people*, Museum Stories (9 stories [1955] reprinted), 21 pages, 9 illustrations, 1 map, paperbound

SMITH, HARRIET, AND JUNE BUCHWALD

*Children of Long Ago*, Museum Stories (9 stories [1950] reprinted), 21 pages, 11 illustrations, paperbound

STROMQUIST, ANNE

*Adventures of a Pebble*, Museum Stories (8 stories [1950] reprinted), 19 pages, 9 illustrations, paperbound

SVOBODA, MARIE

*Plants That the American Indians Used*, Museum Stories (9 stories [1958] reprinted), 21 pages, 9 illustrations by Frances Foy, paperbound

WEAVER, DOLLA COX

*Days of the Dinosaurs*, Museum Stories (8 stories [1956] reprinted), 20 pages, 8 illustrations, 1 chart, paperbound

WORSHAM, NANCY

*Stories behind Museum Zoology Exhibits*, Museum Stories (9 stories [1955] reprinted), 21 pages, 10 illustrations, paperbound





A SUNDAY SCHOOL CLASS  
TAKES THE WINTER JOURNEY

"CHICAGO—WINTER RESORT FOR BIRDS"

"MUSEUM JOURNEYS"  
ARE OFFERED BY  
THE RAYMOND FOUNDATION

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

*Chicago Natural History Museum Bulletin*, volume 29 (1958), 12 numbers, 96 pages, illustrated

ANDERSON, HOWARD

"New Pueblo in Arizona Brought to Light," no. 9, p. 5, 1 illustration

CHANGNON, HARRY S.

"Mineralogical Exhibits for Members' Night," no. 4, p. 7

"Mystery Gem-stone, 312 Pounds, Shown in New Niche," no. 12, pp. 5, 7, 3 illustrations

COLLIER, DONALD

"Classic Art of Veracruz Coast Exhibited," no. 12, p. 6, 3 illustrations

"New Exhibits of Middle American Culture," no. 4, p. 4, 2 illustrations

DAVIS, D. DWIGHT

"Eleven Boy-birds Flock to Woo One Little Prairie Hen," no. 10, pp. 5-6, 2 illustrations (and cover picture)

DENISON, ROBERT H.

"Search for Fossil Fish Undertaken in East," no. 1, p. 5

FORCE, ROLAND W.

"Museum Obtains Last of Great Oceanic Collections," no. 9, pp. 3-4, 7, 8 illustrations (and cover picture)

Review of *Ancient Voyagers in the Pacific* (by Andrew Sharp), no. 5, pp. 6-7

FORSLEV, ALBERT W.

"From Outer Space? Origin of Tektites Is a Mystery," no. 8, p. 3, 1 illustration

GREGG, CLIFFORD C.

"George A. Richardson, 1887-1958," no. 5, p. 2, 1 illustration

"Fifty Splendid Years at Museum Helm," no. 3, p. 2

INGER, ROBERT F.

"About St. Patrick and the Snakes," no. 3, p. 7, 1 cartoon

LEWIS, PHILLIP H.

"Members' Night Show of African Art," no. 4, p. 8, 1 illustration

"Primitive Art Exhibits Are Installed in African Halls," no. 1, pp. 3-4, 3 illustrations, 1 map

"What Is Primitive Art? Answer Told in Exhibit," no. 7, pp. 3-4, 1 illustration (and cover picture)

LISS, ALLEN S.

"Museum Aids in Chicago Area Salvage Dig," no. 11, p. 6, 2 illustrations [with Elaine Bluhm]

MCAFEE, PATRICIA

"Gems Are Rich in Lore and Lustre," no. 6, pp. 3, 4

"Gift of Over 7,000 Shells Includes Many Rarities," no. 11, pp. 4-5, 3 illustrations

"Poisons Save Our Treasures from Pests," no. 9, p. 6, 2 cartoons

MARTIN, PAUL S.

"Cultural Crossroads of the Southwest," no. 11, pp. 3, 5, 1 illustration

Review of *The Seven Caves* (by Carlton S. Coon) and *The Testimony of the Spade* (by Geoffrey Bibby), no. 3, pp. 6, 8

QUIMBY, GEORGE I.

- "Mastodons and Men in the Upper Great Lakes Area," no. 7, pp. 6-7, 2 illustrations, 4 maps  
 "New Evidence Links Chippewa to Prehistoric Culture," no. 1, pp. 7-8, 1 illustration

RAND, AUSTIN L.

- "Abundance of Animals Defies Calculation," no. 7, pp. 4-5, 1 illustration  
 "Animal Life Had Its Origin in the Oceans," no. 3, pp. 7-8, 1 illustration  
 "Colorful Bird Stable Makes Debut at Museum," no. 1, p. 5, 1 illustration (and cover picture)  
 "Fingerprints Are Clues to Exhibits' Popularity," no. 6, pp. 5-6, 1 illustration  
 "Lifeblood of Science: Publications," no. 1, p. 2  
 "Nestling to Nuisance—Birds Make News," no. 8, pp. 6-7, 1 cartoon  
 "Speed of Birds," no. 2, pp. 4-5, 2 cartoons  
 "The 'Good Old Days' When All Explorers Had to Be Tough," no. 12, p. 4, 1 illustration  
 Review of *Extinct and Vanishing Birds of the World* (by James C. Greenway, Jr.), no. 4, p. 7  
 Review of *Vertebrates of the United States* (by W. Frank Blair and others), no. 2, p. 2

RICHARDSON, EUGENE S., JR.

- "In Pursuit of Darkness," no. 7, pp. 2, 8

ROWELL, ALFRED LEE

- "Pre-Gutenberg Printing Found in Mexico," no. 8, p. 7, 2 illustrations

ROY, SHARAT KUMAR

- "Report on Meteorite Studies Abroad," no. 11, p. 2

SOLEM, ALAN

- "Edgar Allen Poe, 'Ghost Writer,'" no. 10, p. 4  
 "Hunger and Thirst: Man and Snails," no. 6, p. 7  
 "Museum Acquires Zetek Shell Collection," no. 1, p. 4, 1 illustration  
 "Science Baffler: How Many Animals Are There?" no. 2, pp. 5-7, 1 illustration, 1 chart, 2 tables  
 "Shell Exhibit Features Little-known Inhabitants," no. 12, p. 3, 2 illustrations (and cover picture)

TURNBULL, WILLIAM D.

- "Expedition Unearths Wyoming Fossils," no. 10, p. 7, 2 illustrations  
 "Wyoming Dig Yields Fossil Mammals of Eocene," no. 1, p. 6, 1 diagram

WOODS, LOREN P.

- "Fish Collecting on Coasts of Guianas and Brazil," no. 3, pp. 5-6, 2 illustrations, 1 map  
 Review of *Encyclopedia of Tropical Fishes* (by Herbert R. Axelrod and William Vorderwinkler), no. 10, p. 8  
 Review of *Guppies* (by Herbert R. Axelrod and Wilfred Whiter), no. 9, p. 7

ZANGERL, RAINER

- "Brontosaurus—A Bulky Lump of Ancient Protoplasm," no. 4, pp. 5-6, 3 illustrations (and cover picture)

ZANGERL, RAINER, AND EUGENE S. RICHARDSON, JR.

- "How Shark Ate Shark in Ancient Indiana Sea," no. 10, pp. 2, 8, 1 illustration

## OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

### DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Comment" on *Archaeological Evidence of a Prehistoric Migration from the Rio Napo to the Mouth of the Amazon* (by Betty J. Meggers and Clifford Evans), in *Migrations in the New World Culture History* (edited by Raymond H. Thompson), *University of Arizona, Social Science Bulletin No. 27*, pp. 17-19

QUIMBY, GEORGE I.

"Archaeology, New World," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1957*, pp. 190-194

"Fluted Paints and Geochronology of the Lake Michigan Basin," *American Antiquity*, vol. 23, no. 3, pp. 247-254

"Late Archaic Culture and the Algona Beach in the Lake Michigan Basin," *The Wisconsin Archeologist*, vol. 39, no. 3, pp. 175-179

RINALDO, JOHN B.

Review of *An Archaeological Survey of West Central New Mexico and East Central Arizona* (by Edward B. Danson), in *American Antiquity*, vol. 23, no. 4, p. 448

### DEPARTMENT OF BOTANY

DAHLGREN, B. E.

"A New Species of *Copernicia* from Cuba," *Principes*, vol. 2, no. 6, pp. 103-105 [with S. F. Glassman]

JUST, THEODOR

"Fifty Years of Paleobotany, 1906-1956," in *Fifty Years of Botany* (edited by W. C. Steere, New York, McGraw-Hill Book Company), pp. 590-605, 4 illustrations

"The Scientist As Editor," *The A.I.B.S. Bulletin*, vol. 8, no. 1, pp. 14-16

Review of *The History of the British Flora, A Factual Basis for Phytogeography* (by H. Goodwin), in *The Journal of Geology*, vol. 66, no. 3, pp. 339-341

SHERFF, EARL E.

"Some Notes upon the Hawaiian Species of *Fagara* L.," *American Journal of Botany*, vol. 45, no. 6, pp. 461-463

THIERET, JOHN W.

"*Agalinis* Rafinesque versus *Chytra* Gaertn. f.," *Taxon*, vol. 7, no. 5, pp. 142-143

"*Castelleja* Mutis ex L. f. versus *Bartsia* L.," *Taxon*, vol. 7, no. 3, pp. 83-84

"Economic Botany of the Cycads," *Economic Botany*, vol. 12, no. 1, pp. 3-41

"Grasses New to Illinois and the Chicago Region," *Rhodora*, vol. 60, no. 717, p. 264 [with S. F. Glassman]

### DEPARTMENT OF GEOLOGY

FORSLEV, ALBERT W.

"A Geochemical Study of Some Late Wisconsin Tills," *Bulletin of the Geological Society of America*, vol. 68, no. 12, pt. 2, pp. 1727-1728 [abstract]

"From Outer Space? Origin of Tektites Is a Mystery," *The Template*, vol. 8, no. 2, pp. 4-8

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

LANGFORD, GEORGE

*The Wilmington Coal Flora from a Pennsylvanian Deposit in Will County, Illinois* (Downers Grove, Illinois, Escon Associates), 360 pages, illustrated

TURNBULL, WILLIAM D.

"Notice of a Late Wisconsin Mastodon," *The Journal of Geology*, vol. 66, no. 1, pp. 96-97

"The Type of *Phlegethontia Linearis* Cope," *Journal of Paleontology*, vol. 32, no. 1, pp. 245-246

ZANGERL, RAINER

"A New Species of Chelid Turtle *Phrynops (Batrachemys dahl)* from Colombia," *Bulletin of the Museum of Comparative Zoology*, vol. 119, no. 5, pp. 375-390, 8 illustrations with [Frederick J. Medem]

"Die oligozanen Meerschildkroten von Glarus," *Schweizerische Palaontologische Abhandlungen*, vol. 73, pp. 5-55, 46 illustrations

DEPARTMENT OF ZOOLOGY

GREY, MARION

"Second Specimen of the Bathypelagic Fish *Photostylus pycnopterus*," *Copeia*, 1958, pp. 56-57

HERSHKOVITZ, PHILIP

"A Critique of Professor Chester Bradley's 'Principle of Conservation,'" *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 911-913

"A Synopsis of the Wild Dogs of Colombia," *Novedades Colombianas*, Museo de Historia Natural, Universidad del Cauca, no. 3, pp. 157-161

"Stabilization of Zoological Nomenclature by a 'Law of Prescription,'" *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 630-632

"Technical Names of the South American Marsh Deer and Pampas Deer," *Proceedings of the Biological Society of Washington*, vol. 71, pp. 13-16

"The Status of Secondary Homonyms and the Concept of Permanent Rejection," *The Bulletin of Zoological Nomenclature*, vol. 15, pp. 1242-1243

"Type Localities and Nomenclature of Some American Primates, with Remarks on Secondary Homonyms," *Proceedings of the Biological Society of Washington*, vol. 71, pp. 53-56

Review of *Biological Investigations in the Selva Lacondona, Chiapas, Mexico* (edited by Raymond A. Painter, Jr.), in *The Quarterly Review of Biology*, vol. 33, p. 67

Review of *Mammals of the Anglo-Egyptian Sudan* (by Henry W. Setzer), in *The Quarterly Review of Biology*, vol. 33, pp. 81-82

INGER, ROBERT F.

"A New Gecko of the Genus *Cyrtodactylus*, with a Key to the Species from Borneo and the Philippine Islands," *Sarawak Museum Journal*, vol. 8, pp. 261-264

"Comments of the Definition of Genera," *Evolution*, vol. 12, pp. 370-384

"The Vocal Sac of the Colorado River Toad (*Bufo alvarius* Girard)," *Texas Journal of Science*, vol. 10, pp. 319-324

MARX, HYMEN

"Sexual Dimorphism in Coloration in the Viper *Cerastes vipera* L.," *Natural History Miscellanea* [Chicago], no. 164, pp. 1-2

## OTHER PUBLICATIONS OF STAFF MEMBERS IN 1958

NELSON, EDWARD M.

- "An Early Review Article on the Swim Bladder of Fishes," *Copeia*, 1957, pp. 301-302  
"The One-eyed Ones," *Journal of American Folklore*, vol. 71, pp. 159-161, 3 illustrations

RAND, AUSTIN L.

- "Birds," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1957*, pp. 271-272  
"Jungle and Domestic Fowl, *Gallus gallus*, in the Philippines," *The Condor*, vol. 60, p. 138 [with D. S. Rabor]  
"*Lanius ludovicianus miamensis* Bishop, a Valid Race from Southern Florida," *The Auk*, vol. 74, pp. 503-505  
"Patterns in the Use of Left and Right Limbs in Vertebrates," *The Wilson Bulletin*, vol. 70, pp. 92-93  
Letter to the Editor: "Name-changing by the International Commission," *The Auk*, vol. 75, pp. 499-500  
Review of *Birds of New Guinea* (by Tom Iredale), in *The Auk*, vol. 74, pp. 513-514  
Review of *Check-list of North American Birds* (prepared by a committee of the American Ornithologists' Union, 5th edition), in *The Auk*, vol. 75, pp. 104-106  
Review of *The Illustrated Library of the Natural Sciences* (edited by Edward M. Weyer, Jr.), in *The Chicago Sunday Tribune Magazine of Books*, December 7, 1958, p. 2

SOLEM, ALAN

- "Biogeography of the New Hebrides," *Nature*, vol. 181, pp. 1253-1255  
"Endodontide Landschnecken von Indonesien und Neu Guinea," *Archiv für Molluskenkunde*, vol. 87, pp. 19-26, 3 illustrations, 1 table  
"Marines from Naus, Admiralty Islands," *Nautilus*, vol. 72, pp. 62-64  
"New Land Snails from Queensland," *Nautilus*, vol. 72, pp. 20-22, 9 illustrations

TRAYLOR, MELVIN A., JR.

- "Variation in South American Great Horned Owls," *The Auk*, vol. 75, pp. 143-149

WENZEL, RUPERT L.

- "Incident Light Photomicrography and Other Useful Techniques in the Study of Minute Insects," *Proceedings of the Tenth International Congress of Entomology*, vol. 1, pp. 401-404

## THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

MARTIN, RICHARD A.

- Butterflies and Moths* (New York, Simon and Schuster), 56 pages, 60 illustrations (57 in color) [juvenile]  
*Insects Stamp Book* (New York, Simon and Schuster), 20 pages, 19 illustrations (with 18 stamps in color) [juvenile]

## CAFETERIA AND LUNCHROOM

The operation of the Museum cafeteria and lunchroom was distinctly successful, showing gains both in the number of persons served and in the income per customer. Financially the operation of the cafeteria made the best record in the history of the Museum. On two occasions special groups of visitors came to the Museum in the evening after normal closing hours to enjoy dinner, followed by tours conducted through areas usually not open to the public.

## MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The work of the maintenance, construction, and engineering personnel includes the care, cleaning, remodeling, and improvement of the building and the accomplishment of a myriad miscellaneous tasks not specifically assigned to others. Preparation of cases to house new exhibits, erection and removal of cases for special exhibits, remodeling offices, laboratories, and storage areas, and protection of the building from deterioration from all causes are all within the usual assignments handled. A statistical recital might be impressive, but it could not by any means describe the work of these units.

A few of the things accomplished during the year included such diverse tasks as making 1,200 wooden trays for the storage of specimens in steel cases, procuring and installing 33 steel storage cases, remodeling the Book Shop (see page 39), and doing everything connected with remodeling Hall 35 (Geology) and part of Hall 36 (Geology) except the installation of the specimens themselves (see page 66). The receipt of any large collection, such as the Captain A. W. F. Fuller Collection (see page 21), calls for moving shipping cases before and after they are unpacked by personnel of the scientific department immediately concerned. In addition, shipping chests were prepared or repaired, as required, for handling our expeditionary equipment, for specimens sent out on loan or exchange, and for our publications that are distributed over the world through the Smithsonian Institution. The good condition and cleanliness of the building and the comfort of our personnel and visitors while in the building testify to the effective operation of the maintenance, construction, and engineering divisions.

A general improvement in the lighting of the Museum was accomplished during the year. This program had many phases, including procurement of worklamps for offices and laboratories, improved case-lighting in Hall 35 and Hall 36 (both Geology),

together with necessary rewiring for floodlighting the whale skeleton in Hall 19 (Zoology) and the huge model of the moon in Hall 35 (see page 66). Additional electrical outlets were placed in Stanley Field Hall to give greater flexibility in handling our special exhibits (see page 26). The Rare Book Room of the Library was rearranged and rewired for new lighting fixtures (see page 82). Exhaust fans were installed in the public picnic-room on the ground floor and in the X-ray laboratory in the Department of Geology, and photography workrooms were rewired to provide for additional equipment.

Care of the collections, a prime objective, is aided by the continual poisoning of cases that house materials subject to insect damage, the care of special equipment controlling heat and atmospheric moisture that would be deleterious to film and certain other materials, and the constant fire inspections and care of fire-fighting equipment.

During the summer shut-down, boilers were cleaned, brickwork repaired, and boiler drums wirebrushed. The heater tank, chemical lines, pumps, and motors were cleaned and overhauled as necessary. The old coal-bunkers were replaced by new ones of copper-bearing steel, and new chains and flights were provided for the coal conveyor. Inability of the Chicago Tunnel Company to handle the removal and disposal of ashes required construction of a new lift from the boiler room to a height sufficiently above street level for easy dumping of waste material into trucks. General maintenance of all electric and pumping lines and equipment was carried on throughout the year. Under existing contracts, a total of 27,930,500 pounds of steam was provided for Shedd Aquarium and the Chicago Park District and an additional 36,455,500 pounds of steam were used by the Museum.

## MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*  
*Chicago Natural History Museum*



ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

ARTICLES OF INCORPORATION

AMENDED BY-LAWS



# COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1958 AND 1957

	1958	1957
Total attendance.....	1,049,401	1,097,561
Paid attendance.....	161,593	139,834
Free admissions on pay days		
Students.....	45,106	35,532
School children.....	156,469	167,779
Teachers.....	8,955	7,347
Members of the Museum.....	708	518
Service men and women.....	811	757
Special meetings and occasions.....	3,519	3,249
Press.....	41	7
Admissions on free days		
Thursdays (51).....	131,665	(52) 140,056
Saturdays (52).....	246,379	(52) 267,240
Sundays (52).....	294,155	(52) 335,242
Highest attendance on any day		
(November 29).....	15,133	(May 4) 13,382
Lowest attendance on any day		
(January 6).....	244	(January 7) 172
Highest paid attendance (September 1)...	3,332	(September 2) 3,541
Average daily admissions (363 days).....	2,891	(363 days) 3,024
Average paid admissions (208 days).....	777	(207 days) 675
<hr/>		
Number of picture postcards sold.....	247,866	221,896
Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts.....	\$ 29,675	\$ 27,502

CHICAGO NATURAL HISTORY MUSEUM  
 COMPARATIVE STATEMENT  
 OF RECEIPTS AND EXPENDITURES  
 CURRENT FUNDS

FOR THE YEARS 1958 AND 1957

GENERAL OPERATING FUND

RECEIPTS:	1958	1957
Endowment income—		
From investments in securities . . . . .	\$ 376,185	\$ 352,608
From investments in real estate . . . . .	428,280	404,118
	\$ 804,465	\$ 756,726
Chicago Park District—tax collections . . . . .	\$ 232,406	\$ 238,704
Annual and sustaining memberships . . . . .	28,925	30,825
Admissions . . . . .	40,398	34,959
Sundry receipts, including general purpose contributions . . . . .	69,573	56,144
Restricted funds transferred to apply against Operating Fund expenditures (contra) . . . . .	212,741	107,831
	\$1,388,508	\$1,225,189
 EXPENDITURES:		
Operating expenses—		
Departmental operating expenses . . . . .	\$ 548,329	\$ 521,157
General operating expenses . . . . .	438,007	423,919
Building repairs and alterations . . . . .	127,997	116,628
	\$1,114,333	\$1,061,704
Collections—		
Purchases and expedition costs . . . . .	\$ 191,899	\$ 62,816
Furniture, fixtures and equipment . . . . .	10,884	25,545
Pension and employees' benefits . . . . .	73,240	69,301
Provision for mechanical plant depreciation (contra) . . . . .	*	10,000
	\$1,390,356	\$1,229,366
DEFICIT FOR YEAR before special appropriation . . . . .	\$ 1,848	\$ 4,177
Appropriation from restricted funds to cover 1957 deficit . . . . .		4,177
DEFICIT FOR YEAR . . . . .	\$ 1,848	

\* The annual appropriation of \$10,000 in 1958 was offset by expenditures for elevator reconditioning

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM  
COMPARATIVE STATEMENT OF RECEIPTS  
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1958 AND 1957 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL  
EXTENSION FUND

	1958	1957
Income from endowments.....	\$ 30,106	\$ 28,766
Expenditures.....	<u>27,178</u>	<u>27,235</u>
SURPLUS FOR THE YEAR.....	<u>\$ 2,928</u>	<u>\$ 1,531</u>

OTHER RESTRICTED FUNDS

RECEIPTS:	1958	1957
From Specific Endowment Fund investments....	\$ 71,193	\$ 67,212
Contributions for specified purposes.....	12,491	41,537
Operating Fund appropriations for mechanical plant depreciation (contra).....	*	10,000
Sundry receipts.....	<u>72,966</u>	<u>66,657</u>
	\$ 156,650	\$ 185,406
 EXPENDITURES:		
Transferred to Operating Fund—		
To apply against expenditures (contra).....	\$ 212,741	\$ 107,831
To cover 1957 operating deficit.....		4,177
Added to Endowment Fund principal.....	52,000	75,386
Loss on sales of securities.....	<u>3,763</u>	
	\$ 268,504	\$ 187,394
EXCESS OF EXPENDITURES OVER RECEIPTS.....	<u>\$(111,854)</u>	<u>\$ (1,988)</u>

\* The annual appropriation of \$10,000 in 1958 was offset by expenditures for elevator reconditioning

THE TRUSTEES,  
CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1958, in conformity with generally accepted accounting principles applied on the same basis as in the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois  
January 20, 1959

## USE IN 1958 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

EDWARD E. AYER LECTURE FOUNDATION FUND	
Cost of Museum lecture series.....	\$ 4,309.00
Subsidy to publication program.....	1,268.49
FREDERICK AND ABBY KETTELLE BABCOCK FUND	
Subsidy to publication program.....	1,376.54
EMILY CRANE CHADBOURNE ZOOLOGY FUND	
Purchase of specimens.....	618.13
WILLIAM J. AND JOAN A. CHALMERS TRUST FUND	
Equipment for the William J. and Joan A. Chalmers Mineralogical Laboratory.....	152.07
Purchase of specimens.....	247.00
MRS. JOAN A. CHALMERS BEQUEST FUND	
Equipment for the William J. and Joan A. Chalmers Mineralogical Laboratory.....	720.03
CONOVER GAME-BIRD FUND	
Expedition to Peru.....	4,787.35
Purchase of specimens.....	533.00
THOMAS J. DEE FELLOWSHIP FUND	
Fellowship grant to Evett D. Hester.....	900.00
Fellowship grant to Alfredo Evangelista.....	810.00
Fellowship grant to D. S. Rabor.....	500.00
Fellowship grant to Bernard Benesh.....	200.00
GROUP INSURANCE FUND*	
Group insurance costs.....	8,212.48
Subsidy to Pension Fund.....	5,027.41
N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND	
Care of collections and distribution of exhibits to schools of Chicago.....	27,177.78
THE JOHNSON FOUNDATION	
Research on waxy palms.....	2,142.00
LIBRARY FUND†	
Purchase of books and periodicals.....	5,035.37
JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND	
Subsidy to public school and children's lecture programs.....	32,455.20
DONALD RICHARDS FUND	
Subsidy to cryptogamic botanical research.....	1,767.39
MAURICE L. RICHARDSON PALEONTOLOGICAL FUND	
Field trip for Coal Age fossils in Indiana.....	1,000.00

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$12,000,000 of contributed endowment funds was used in general Museum operation.

\* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

## Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

### FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

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*Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax*

# ACCESSIONS 1958

## DEPARTMENT OF ANTHROPOLOGY—ACCESSIONS

ANDERSON, HOWARD, Flossmoor, Illinois: 5 arrowheads, scrapers, and potsherds—Illinois (gift)

ARIZONA STATE MUSEUM, Tucson: 86 potsherds—Arizona (on permanent loan)

BEYER, PROFESSOR H. O., Manila: 63 prehistoric stone implements—Philippines (gift)

BLACKWELDER, MR. AND MRS. PAUL, St. Louis: 10 garments—Polynesia (gift)

CHICAGO ACADEMY OF SCIENCES, Chicago: 12 pigeon whistles—China (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1958): 555 stone, bone, and shell artifacts, 1 skeleton, 49 restorable pottery vessels, 26,000 sherds

*Purchases:* 6,500 ethnological and archaeological specimens from Oceania, 11 Early Woodland stone and copper artifacts, 96 ethnological specimens from Brazil, 1 Japanese kimona, 18 oil paintings of Guatemala Indians and market scenes

FULLER, CAPTAIN AND MRS. A. W. F., London: bracelet—Egypt (gift)

GORDON, MISS MARION G., Chicago: Woodland-type projectile point—Indiana (gift)

GOVERNMENT MUSEUM, Madras, India: 24 mid-Pleistocene stone tools—India (exchange)

GRAHAM, DR. DAVID C., Englewood, Colorado: 42 rubbings—China (gift)

GRUMBECKER, E. J., Chicago: 2 Philippine knives and sheaths, 1 Japanese sword and sheath (gift)

HART, MRS. CHESTER, Oak Park, Illinois: Japanese wedding gown, Tunisian peasant costume (gift)

HESTER, EVETT D., Chicago: 12 ancient bracelets, 3 stone implements—Philippines, 123 sherds—Siam (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: stone blade—Egypt (gift)

LISS, ALLEN S., Chicago: carved spoon—Philippines (gift)

NICHOLSON, MRS. EVELYN, Chicago: man's gown—China (gift)

PAGANO, CHARLES, Skokie, Illinois: archaic-type projectile point—Illinois (gift)

PERRY, MRS. I. NEWTON, Chicago: woven shell kilt—South Pacific (gift)

QUIMBY, GEORGE I., Chicago: 14 ethnological objects—Alaska (gift)

REED, MRS. C. A., Portland, Oregon: gown—China (gift)

REW, MRS. IRWIN, Evanston, Illinois: 12 ethnological objects—Northwest Coast and Indiana (gift)

STUDLEY, THE REVEREND ELLEN M., Chicago: rubbing—China (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: bronze shiva—Java, nephrite pendant—New Zealand, cotton textile—Ceylon (gift)

WEHRMACHER, WILLIAM H., III, Morton Grove, Illinois: grooved ax, chipped-stone scraper—Illinois (gift)

## DEPARTMENT OF BOTANY—ACCESSIONS

AMERICAN MUSEUM OF NATURAL HISTORY, New York: carboniferous stump of *Sigillaria* (gift)

BARTLETT, FREDERICK, Chicago: 2 fruits of *Solanum quitense* (gift)

BENNETT, HOLLY REED, Chicago: 4,723 specimens of flowering plants (gift)

BOLD, DR. HAROLD C., Austin: 3 specimens of algae (gift)



BONDAR, DR. GREGORIO, Salvador, Bahia, Brazil: specimen of palm (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 119 specimens of vascular plants (exchange)

BULLOCK, DR. DILLMAN S., Angol, Chile: 2 specimens of *Gomortega nitida* (gift)

CALIFORNIA, UNIVERSITY OF, Berkeley: 198 specimens of vascular plants (exchange)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: specimen of *Carpenteria californica* (gift)

CANRIGHT, DR. JAMES E., Bloomington, Indiana: 3 slides of *Drimys* wood specimens (gift)

CENTRO NACIONAL DE AGRONOMIA, Santa Tecla, Salvador: 89 specimens of flowering plants (exchange)

CHICAGO, UNIVERSITY OF, Chicago: 183 specimens of cycads and 1 fern (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Emil Sella (West Coast Botanical Field Trip, 1955): 3 wood specimens

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1958): 900 specimens of vascular plants

*Purchases*: 210 specimens of flowering plants—Africa; 11 specimens of flowering plants and 2 cones of *Pinus Lambertiana*—California; 1,475 specimens of flowering plants—Costa Rica; 18 wood specimens—Cyprus; 50 specimens of ferns—Malaya

DEPAUW UNIVERSITY, Greencastle, Indiana: 1,317 specimens of vascular plants (exchange)

DWYER, DR. JOHN, St. Louis: 33 specimens of grasses (gift)

DYBAS, HENRY S., Homewood, Illinois: 79 specimens of fungi (gift)

FLORIDA STATE UNIVERSITY, Tallahassee: 40 specimens of flowering plants (gift)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 42 wood specimens (exchange)

GEORGIA, UNIVERSITY OF, Athens: 434 specimens of vascular plants (exchange)

GIBSON, MRS. DOROTHY, Chicago: 38 specimens of flowering plants (gift)

GLASSMAN, DR. SYDNEY F., Chicago: 118 specimens of flowering plants (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: specimen of *Calvatia* (gift)

HERRE, DR. ALBERT, Santa Cruz, California: specimen of *Usnea* (gift)

ILLINOIS, UNIVERSITY OF, Urbana: 447 specimens of vascular plants (exchange)

ILLINOIS STATE MUSEUM, Springfield: specimen of flowering plant (gift)

INSTITUTO AGRONÓMICO DO NORTE, Belém, Brazil: 49 specimens of vascular plants (exchange)

INSTITUTO AGRONÓMICO DO SUL, Pelotas, Brazil: 20 specimens of vascular plants (exchange)

IOWA, STATE UNIVERSITY OF, Iowa City: 819 specimens of flowering plants (exchange)

KAPLAN, DR. LAWRENCE, Chicago: 26 seed samples (gift)

KAUSEL, DR. EBERHARD, Santiago, Chile: 20 specimens of mosses and 412 specimens of flowering plants (exchange)

KYOTO, UNIVERSITY OF, Kyoto, Japan: 200 specimens of ferns (exchange)

LOS ANGELES COUNTY MUSEUM, Los Angeles: 58 specimens of flowering plants (gift)

LUNDGREN, JOHN, Chicago: 2 specimens of flowering plants (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 2,540 specimens of vascular plants and 846 type-photographs (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 31 specimens of flowering plants (exchange)

NEW YORK BOTANICAL GARDEN, New York: 451 specimens of vascular plants and 19 type-photographs (exchange)

PALMER, DR. C. M., Cincinnati: 12 specimens of algae (gift)

PALMER, ERNEST J., Webb City, Missouri: 5 specimens of flowering plants (gift)

PALSER, DR. BARBARA F., Chicago: 129 specimens of flowering plants (gift)

ROYAL BOTANIC GARDENS, Kew, England: 19 specimens of flowering plants and 27 type-photographs (exchange)

SHERFF, DR. EARL E., Hastings, Michigan: 184 specimens of vascular plants (gift)

SILVA, DR. P. C., Urbana, Illinois: 8 specimens of *Codium* (exchange)

SOCIEDAD DE CIENCIAS NATURALES  
LASALLE, Caracas, Venezuela: 287  
specimens of flowering plants (exchange)

TRAVERSE, DR. ALFRED, Houston:  
313 specimens of flowering plants (gift)

TRYON, DR. ROLLA, Cambridge,  
Massachusetts: 53 specimens of ferns  
(gift)

UNITED STATES DEPARTMENT OF  
AGRICULTURE, Beltsville, Maryland:  
specimen of *Araecoccus* (gift)

UNITED STATES NATURAL MUSEUM,  
Washington, D.C.: 150 specimens of  
flowering plants (exchange)

WELCH, PROFESSOR WINONA H.,  
Greencastle, Indiana: specimen of moss  
(gift)

WILLIAMS, DR. LOUIS O., Beltsville,  
Maryland: 2 specimens of flowering  
plants (gift)

WILSON, ARCHIE F., Summit, New  
Jersey: type-photograph (gift)

## DEPARTMENT OF GEOLOGY—ACCESSIONS

ATWOOD, OLIN D., Wheatland,  
Wyoming: moss agate nodules—Wyom-  
ing (gift)

BADER, DR. ROBERT, Urbana, Illi-  
nois: Pleistocene fauna—Florida  
(exchange)

BEYER, PROFESSOR H. O., Manila:  
Philippine tektites—Philippines (gift)

BUCKINGHAM-VICTORIA SLATE COR-  
PORATION, Richmond, Virginia: roofing  
slate—Virginia (gift)

BYRNE, THOMAS R., East Gary, Indi-  
ana: kog-grit and dune sand—Indiana  
(gift)

CARR, J. DEAN (address lacking):  
fossil skull and jaws of horse—Illinois  
(gift)

CHICAGO, UNIVERSITY OF, Chicago:  
fossil reptiles—Texas, lower jaws of fos-  
sil reptile (*Toxolophosaurus cloudi*)—  
Montana (gift)

CHICAGO NATURAL HISTORY MUSEUM:  
Collected by Bryan Patterson and  
Orville L. Gilpin (field work, 1949):  
*Mammot americanum* tibia—Indiana

Collected by William D. Turnbull  
and David Collier (Wyoming Paleon-  
tological Expedition, 1958): fossil verte-  
brates—Wyoming

Collected by Dr. Rainer Zangerl and  
Dr. Eugene S. Richardson, Jr. (Indiana  
Paleontological Field Trips, 1958): fos-  
sil fishes—Indiana

Collected by Dr. Rainer Zangerl, Dr.  
Robert H. Denison, and Dr. Eugene  
S. Richardson, Jr. (field work, 1958):  
fossil invertebrates—Illinois

*Purchase:* Charles D. Nelson Collec-  
tion of minerals and fossil invertebrates  
—various localities

CLARKE OIL AND REFINING COM-  
PANY, Chicago: incomplete skeleton of  
fossil deer—Illinois (gift)

DOERRER, MRS. ETHEL, Tinley Park,  
Illinois: Silurian limestone, fossil insects  
(*Palaeoxyris* and *Geraurus*)—Illinois  
(gift)

FIELD, DR. HENRY, Coconut Grove,  
Florida: dinosaur-egg fragments—  
France (gift)

FILER, RUSSELL, Redlands, Califor-  
nia: crystal specimens—various locali-  
ties (exchange)

FLORIDA GEOLOGICAL SURVEY, Talla-  
hassee: cast of skull of *Leptarctus an-  
cipidens* (exchange); casts of Miocene  
mamelids (gift)

FORSLEV, ALBERT W., Chicago:  
minerals—Wisconsin (gift)

HESTON, WILLIAM, Chicago: fossil  
rodent jaw and fossil rabbit skull—  
South Dakota (gift)

HOTCHKISS, A. R., Evanston, Illinois:  
minerals—North Carolina and Indiana  
(exchange)

ILLINOIS GEOLOGICAL SURVEY,  
Urbana: minerals—various localities  
(gift)

ILLINOIS STATE MUSEUM, Spring-  
field: cast of neck vertebrae of fossil  
mammal (gift)

JOHNSON, MRS. ROY, Berkeley, Cali-  
fornia: fragment of fossil ilium of horse  
(gift)

KIRKBY, MR. AND MRS. SAMUEL,  
Riverside, California: 880 insect-bearing  
concretions—California (exchange); fos-  
sil invertebrates—various localities (gift)

KJELLESVIG-WAERING, ERIK N.,  
Buenos Aires, Argentina: fossil inverte-  
brates—Bolivia (gift)

KONIZESKI, DR. RICHARD, Missoula,  
Montana: fossil mammal jaw—Mon-  
tana (gift)

KOVALIK, RONNEY, Palatine, Illinois:  
fossil invertebrates—Wisconsin (gift)

LOWENSTAM, DR. HEINZ (address lacking): several lots of fossil invertebrates—various localities (gift)

NATIONAL CONFECTIONERS ASSOCIATION, Chicago: portable ultraviolet-light unit (gift)

OLSEN, EDWARD, Chicago: mineral specimen—Quebec (gift)

OSTRUM, GERALD, Winnetka, Illinois: mineral specimens—various localities (exchange)

PENNSYLVANIA, UNIVERSITY OF, Philadelphia: casts of fossil mammal *Giganthropithecus* (gift)

PETTERSON, CHUCK, Minneapolis: fossil coral—Minnesota (gift)

QUEBEC COLUMBIUM LIMITED, Oka, Quebec: minerals—various localities (gift)

RESERVE MINING COMPANY, Silver Bay, Minnesota: banded taconite—Minnesota (gift)

RITCHIE, ARTHUR M., Olympia, Washington: fossil wood—Washington (gift)

ROHWER, MR. AND MRS. OSCAR, Chicago: fossil fish and fossil insect—Wyoming (gift)

SIMONS, ELWYN (address lacking): cast of molar of fossil mammal (gift)

SOLENBERGER, TOM, Albuquerque, New Mexico: brachiopod—New Mexico (gift)

SONNA, WILLIAM, Brookfield, Illinois: fossil skull—Illinois (gift)

UNION OIL COMPANY OF CALIFORNIA, Alberta: Devonian fish fragments—Canada (gift)

WEDRON SILICA COMPANY, Chicago: silica sand—Illinois (gift)

WELSH, DR. HENRY, Port Elizabeth, South Africa: 153 grams of Monze meteorite—(exchange)

WHEATON COLLEGE, Wheaton, Illinois: fossil fish—Brazil (gift)

WHITFIELD, DR. AND MRS. ROBERT H., Evanston, Illinois: fossil plant specimens—Tennessee (gift)

WILLIAM J. CHALMERS CRYSTAL FUND: minerals—various localities (purchase)

WOODHOUSE, C. D., Santa Barbara, California: bicolored dumortierite—Nevada (exchange)

ZEHRUNG, JERRY, Warsaw, Indiana: lower jaw of mammoth—Indiana (gift)

## DEPARTMENT OF ZOOLOGY—ACCESSIONS

ABLER, WILLIAM, Chicago: butterfly—Wisconsin (gift)

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia: 150 non-marine shells—Central and South America (exchange)

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 4 salamanders, 4 lizards—Asiatic U.S.S.R. (exchange)

ALLCHIN, MRS. RUTH, Warwickshire, England: 20 snails—Guatemala and England (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 224 lots of shells—various localities, 1 frog—Arizona (exchange)

ANIMAL WELFARE LEAGUE, Chicago: snake—Illinois (gift)

AUSTRALIAN MUSEUM, Sydney, New South Wales: 4 landsnails—Lord Howe Island (exchange)

BARR, THOMAS C., Lubbock, Texas: beetle—Tennessee (gift)

BEETLE, MISS DOROTHY E., Laramie, Wyoming: 12 lots of inland mollusks—Wyoming (gift)

BENESH, BERNARD, Burrville, Tennessee: 809 insects—United States (gift)

BEQUAERT, DR. JOSEPH C., Cambridge, Massachusetts: 2 landsnails—Texas (gift)

BONDAR, DR. GREGORIO, Salvador, Bahia, Brazil: 40 weevils—Brazil (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 4 frogs—India and Borneo (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 2 marine snails—Coronado Islands (exchange); DEPARTMENT OF ZOOLOGY FISHERIES, Los Angeles: 48 lots of fishes—various localities (gift)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: 146 beetles—United States (exchange)

CALIFORNIA DEPARTMENT OF FISH AND GAME, Terminal Island: fish—Lower California (gift)

CARNEGIE MUSEUM, Pittsburgh: bird—Venezuela (exchange)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Henry S. Dybas: (California Zoological Field Trip, 1952) 417 insects—western United States; (Midwest Zoological Field Work, 1953) 418 insects—Tennessee, Mississippi, and Louisiana; (Southeast Zoological Field Trip, 1955) 11,426 insects and allies—Florida, Georgia, North Carolina, and Tennessee; (Northwest Pacific Coast Zoological Field Trip, 1957) 9,098 insects and related arthropods—Pacific Northwest; (Southern Illinois Zoological Field Trip, 1958) 50 landsnails, 3 salamanders—southern Illinois

Collected by Harry Hoogstraal, Floyd G. Werner, and others (Philippine Zoological Expedition, 1946-47): 41,793 insects—Philippine Islands

Collected by Celestino Kalinowski (Peru Zoological Expedition, 1956-57): 383 mammals, 107 lots of fishes, 56 reptiles and amphibians—Peru

Collected by William D. Turnbull (Wyoming Paleontological Expedition, 1958): 2 mammals—Washakie Basin, Wyoming

Collected by Kjell von Sneidern (Colombia Zoological Expedition, 1958): 71 mammals—Colombia

Collected by Loren P. Woods: (Cooperative Field Work with United States Fish and Wildlife Service in Equatorial Atlantic, 1957 and 1958) 5,580 fishes—off coast of Guianas and Brazil; (field work, 1958) 356 fishes—Mississippi River at Guttenberg, Iowa

Purchases: 464 mammals, 1,772 birds, 20,133 insects, 4 lots of fishes and 1 cast of a *Latimeria*, 2,115 reptiles and amphibians, 393,968 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 22 mammals, 1 bird, 3 turtles, 2 crocodilians—various localities (gift)

CHIN, PHUI KONG, Jesselton, North Borneo: 5 fishes—North Borneo (gift)

DAWSON, C. E., Wadmalaw Island, South Carolina: sea-snake—Persian Gulf (gift)

DELL, R. K., Wellington, New Zealand: 2 landsnail shells, 4 landsnail animals—New Zealand (exchange)

DLUHY, EUGENE, Chicago: butterfly—Indiana (gift)

DOMERGUE, DR. CHARLES A., Tunis, Tunisia: 9 lizards—Tunisia (exchange)

DRAKE, ROBERT J., Tucson, Arizona: 37 landsnails—Mexico (gift)

DUELLMAN, DR. WILLIAM E., Detroit: lizard—Mexico (gift)

DUEVER, MICHAEL, Chicago: 2 snakes—Israel (gift)

DUTOIT, DR. C. A., Stellenbosch, Union of South Africa: 5 frogs—South Africa (exchange)

EIGSTI, W. E., Hastings, Nebraska: 105 ectoparasites—Nebraska (gift)

ESCALANTE, RODOLFO, Montevideo, Uruguay: bird—Uruguay (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 10 lots of landshells and sow bugs, 3 frogs, 3 insects—Bahama Islands and France (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 184 birds, 5 frogs, 13 snakes—Nepal (gift)

FOBES, SERGEANT EDWARD, Chicago: 3 marine shells—worldwide (gift)

GERHARD, WILLIAM J., Chicago: 1,065 true bugs—Colombia (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: woodchuck—Indiana (gift)

GROW, RAYMOND, Gary, Indiana: 3 birds—Indiana (gift)

HAMERSTROM, FRED, Plainfield, Wisconsin: 2 birds—Wisconsin (exchange)

HAMILTON, DR. W. J., JR., Ithaca, New York: 4 mustelid bacula—New York and Minnesota (to replace lost specimens)

HARRIS, DR. H. M., Ames, Iowa: 16 bugs—United States (gift)

HARTMAN, JAMES A., Chicago: 3 velvet ants—Nebraska (gift)

HENDRICKSON, JOHN R., Singapore, Malaya: 5 mammals—Malaya (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 290 mammals, 113 birds, 8 clutches of bird eggs, 436 reptiles and amphibians, 56 insects, 2 slides of sucking lice—Egypt, New Guinea, and Wales (gift)

HOPKINS, TIM, Redwood City, California: beetle—California (gift)

HUBBS, DR. CARL L., La Jolla, California: 31 birds—Guadalupe (gift)

HUMMELINCK, DR. P. WAGENAAR, Utrecht, Netherlands: 58 lots of landsnails—Lesser Antilles (gift)

HYMAN, DR. LIBBIE, New York: 5 landslugs—New York (gift)

IMAMURA, DR. TAIJI, Mito, Japan: 25 slides of watermites—Japan (gift)

JACKSON, RALPH W., Cambridge, Maryland: 450 shells—South America (exchange); 167 shells—Ecuador, 150 snails—Argentina (gift)

JACOBSON, MORRIS K., Rockaway Beach, New York: 1,300 shells—North America and West Indies (gift)

KISTNER, DR. DAVID, Rochester, New York: 25 beetles—Africa (gift)

KLAWE, W. L., La Jolla, California: 4 lizards, 1 lot of lizard eggs—Cocos Islands (gift)

KOHLs, DR. GLEN M., Hamilton, Montana: 5 ticks—Texas (gift)

KRAUSS, DR. N. L. H., Honolulu: 31 reptiles and amphibians—various localities, 50 lower invertebrates—Mariana Islands (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 1,248 reptiles and amphibians—Formosa (exchange); 1 bat, 96 fishes, 498 reptiles and amphibians, 65 nonmarine mollusks—Formosa and Pakistan (gift)

LEHMANN, DR. F. C., Cali, Colombia: 20 monkey skins—Colombia (gift)

LINCOLN PARK ZOO, Chicago: 3 mammals, 7 lizards—various localities (gift)

LINDAR, ALBERT J., Chicago: 2 land-snails—Haiti (gift)

LOVERIDGE, ARTHUR, St. Helena, South Atlantic: 20 frogs, 3 lots of frog larvae, 1 egg-mass of frogs—St. Helena (gift)

LUND UNIVERSITY, ZOOLOGICAL INSTITUTE, Lund, Sweden: 111 frogs—South Africa (exchange)

MAHLBERG, MILTON, Rockford, Illinois: land planarian—Illinois (gift)

MALKIN, BORYS, Minneapolis: 1 land-shell—Brazil, 2 microscope slides of 7 aphids—United States and Mexico (gift)

MENZIES, J. I., London: 77 frogs—Sierra Leone, West Africa (gift)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 31 landsnails—Central America, 7 fishes—Alabama and Missouri (exchange)

MILSTEAD, DR. WILLIAM W., Lubbock, Texas: 23 frogs—Brazil and Argentina (gift)

MOHORTER, WILLARD, Cincinnati: 45 snails—Mauritius and Grenada (exchange); 88 marine shells—worldwide (gift)

MUSEO CIVICO DI STORIA NATURALE, Genoa, Italy: 21 reptiles and amphib-

ians—Burma, Sumatra, Mentawai Islands, and Italy (exchange)

MUSEO DE HISTORIA NATURAL Monteideo, Uruguay: 40 fresh-water clams—Uruguay (gift)

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 Frazer, Mrs. George E.  
 Freda, Dr. Vincent C.  
 Frederick, Mrs.  
     Clarence L.  
 Freeto, Clarence E.  
 Freiler, Abraham J.  
 French, Dudley K.
- Frenier, A. B.  
 Freudenthal, G. S.  
 Frey, Charles Daniel  
 Freyn, Henry J.  
 Fridstein, Meyer  
 Friedlander, William  
 Fritsch, Miss Josephine  
 Fuller, Mrs. Gretta  
     Patterson  
 Fuller, J. E.  
 Fuller, Judson M.  
 Fulton, Paul C.
- Gabriel, Adam  
 Gaertner, William  
 Galgano, John H.  
 Gall, Harold J. F.  
 Gall, Harry T.  
 Gallagher, Sheridan  
 Gallup, Rockwell L.  
 Galt, Mrs. Anne  
     Rickords  
 Galt, Mrs. A. T.  
 Gamble, D. E.  
 Garcia, José  
 Gardien, Hugh M. G.  
 Gardiner, Mrs. John L.  
 Gardner, Addison L., Jr.  
 Gardner, F. Sewall  
 Gardner, Frederick D.  
 Gardner, Henry A.  
 Gardner, Henry K.  
 Gardner, Robert A., Jr.  
 Garen, Joseph F.  
 Garrison, Dr. Lester E.  
 Gary, Theodore S.  
 Gates, Mrs. L. F.  
 Gay, Rev. A. Royal  
 Gear, H. B.  
 Gebhardt, Alfred E.  
 Gehl, Dr. W. H.  
 Gehrman, Felix  
 Geiger, Alfred B.  
 Geiling, Dr. E. M. K.  
 Geist, Herbert  
 Geittmann, Dr. W. F.  
 Geldmeier, Dr. Erwin F.  
 Gellert, Donald N.  
 Gensburg, Samuel H.  
 Gentry, Veit  
 Gentz, Miss Margaret  
     Nina  
 Gerding, R. W.  
 Gerngross, Mrs. Leo  
 Gettelman, Mrs.  
     Sidney H.  
 Gettleman, Frank E.  
 Getz, James R.  
 Getz, Mrs. James R.  
 Getzoff, E. B.  
 Gibbs, Richard F.

ASSOCIATE MEMBERS (CONTINUED)

- Gibson, Paul  
 Gibson, Truman K., Jr.  
 Gidwitz, Alan K.  
 Gidwitz, Victor E.  
 Giffey, Miss Hertha  
 Gifford, Mrs.  
     Frederick C.  
 Gilchrist, Mrs. John F.  
 Gilchrist, Mrs. William  
     Albert  
 Giles, Mrs. Guy H.  
 Gillette, Mrs. Ellen D.  
 Gilmore, Dr. John H.  
 Gimbel, J. W., Jr.  
 Ginther, Miss Minnie C.  
 Giryotas, Dr. Emelia J.  
 Glade, David Bruce  
 Glaescher, Mrs. G. W.  
 Glasner, Rudolph W.  
 Glasser, Joshua B.  
 Glick, Louis G.  
 Godley, Mrs. John M.  
 Goes, Mrs. Arthur A.  
 Golber, David  
 Goldblatt, Joel  
 Golding, Robert N.  
 Goldsby, Fred L.  
 Goldstein, Dr. Abraham  
 Goldstein, Dr. Helen L.  
     Button  
 Goldstein, Nathan S.  
 Goldy, Walter I.  
 Goltra, Mrs. William B.  
 Goode, Mrs. Rowland T.  
 Goodfriend, S. L.  
 Goodman, Benedict K.  
 Goodman, Mrs. Milton F.  
 Goodman, William E.  
 Goodwin, George S.  
 Gordon, Colin S.  
 Gordon, Harold J.  
 Gordon, Dr. Richard J.  
 Gordon, Mrs. Robert D.  
 Gorrell, Mrs. Warren  
 Gottlieb, Frederick M.  
 Gould, Jay  
 Gould, Mrs. June K.  
 Grade, Joseph Y.  
 Graham, Douglas  
 Graham, E. V.  
 Graham, Miss  
     Margaret H.  
 Gramm, Mrs. Helen  
 Granger, Mrs. Lillian M.  
 Grant, James D.  
 Grant, John G.  
 Graves, Austin T.  
 Graves, Howard B.  
 Grawoig, Allen  
 Gray, Dr. Earle  
 Gray, Edward
- Gray, Philip S.  
 Green, Michael  
 Greenburg, Dr. Ira E.  
 Greene, Henry E.  
 Greene, Howard T.  
 Greenebaum, Robert J.  
 Greenlee, Mrs. William  
     Brooks  
 Greenman, Mrs. Earl C.  
 Greenwald, Herbert S.  
 Gregg, Clarence T.  
 Gregory, Stephen S., Jr.  
 Gressens, Otto  
 Grey, Dr. Dorothy  
 Griffenhagen, Mrs.  
     Edwin O.  
 Griffith, Mrs. Carroll L.  
 Griffith, Mrs. William  
 Griswold, Harold T.  
 Grizzard, James A.  
 Groak, Irwin D.  
 Grohe, Robert F.  
 Gronkowski, Rev. C. I.  
 Groot, Cornelius J.  
 Grosberg, Charles  
 Grossman, Frank I.  
 Grotowski, Mrs. Leon  
 Grunow, Mrs. William C.  
 Guest, Ward E.  
 Guldager, Carl D.  
 Gurley, Miss Helen K.  
 Gustafson, Gilbert E.  
 Gustafson, Mrs.  
     Winfield A.
- Hadley, Mrs. Edwin M.  
 Haffner, Mrs.  
     Charles C., Jr.  
 Hagen, Mrs. Daise  
 Hahn, Arthur  
 Hair, T. R.  
 Hajcek, Rudolph F.  
 Hale, Mrs. Samuel  
 Hall, Edward B.  
 Hall, Mrs. J. B.  
 Halligan, W. J.  
 Halperin, Aaron  
 Halverstadt, Romaine M.  
 Hamm, Fred B.  
 Hammaker, Paul M.  
 Hammerschmidt, Mrs.  
     George F.  
 Hand, George W.  
 Hann, J. Roberts  
 Hansen, Mrs. Fred A.  
 Hansen, Jacob W.  
 Hanson, Mrs. Norman R.  
 Harder, John H.  
 Harders, Mrs. Flora  
     Rassweiler  
 Harding, John Cowden
- Hardy, Mrs. L. Martin  
 Harms, Van Deursen  
 Harper, Alfred C.  
 Harrington, David L.  
 Harris, Mrs. Abraham  
 Harris, Gordon L.  
 Harris, Stanley G.  
 Harrison, Arthur C.  
 Harrison, Carter H., Jr.  
 Hart, Henry N.  
 Hart, Max A.  
 Hartmann, A. O.  
 Hartung, George, Jr.  
 Hartz, W. Homer  
 Harvey, Byron, III  
 Harvey, Daggett  
 Harvey, Richard M.  
 Harwood, Thomas W.  
 Hass, G. C.  
 Haugen, Bernhart  
 Hawkes, Joseph B.  
 Hay, Mrs. William  
     Sherman  
 Hayakawa, Dr. S. I.  
 Hayes, Harold C.  
 Hayes, Miss Mary E.  
 Haynie, Miss Rachel W.  
 Hays, Mrs. Arthur A.  
 Haywood, Mrs.  
     Marshall L., Jr.  
 Hazlett, Dr. William H.  
 Hazlett, Mrs. William H.  
 Healy, Vincent Jerrems  
 Hearst, Mrs. Jack W.  
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 Heaton, Herman C.  
 Hecht, Kenneth G.  
 Heffernan, Miss Lili  
 Hefner, Adam  
 Heide, Mrs. Bernard H.  
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 Heinzelman, Karl  
 Heinzen, Mrs. Carl  
 Heisler, Francis  
 Hejna, Joseph F.  
 Heldmaier, Miss Marie  
 Helfrich, J. Howard  
 Heller, John A.  
 Heller, Mrs. Florence G.  
 Hellman, George A.  
 Hellyer, Walter  
 Henderson, Kenneth M.  
 Henkel, Frederick W.  
 Henley, Dr. Eugene H.  
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 Herbst, LeRoy B.  
 Herron, James C.  
 Herron, Mrs. Oliver L.  
 Hertz, Mrs. Fred  
 Hertzberg, Lawrence  
 Herwig, George

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- Herwig, William D., Jr.  
 Herz, Mrs. Alfred  
 Hesse, E. E.  
 Heverly, Earl L.  
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 Hibben, Joseph W.  
 Hieber, Master J. Patrick  
 Hildebrand, Dr.  
     Eugene, Jr.  
 Hildebrand, Grant M.  
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 Hill, Rolwood R.  
 Hill, Mrs. Russell D.  
 Hill, Stacy H.  
 Hille, Dr. Hermann  
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     Marjory A.  
 Hind, Mrs. John Dwight  
 Hines, Charles M.  
 Hinman, Mrs. Estelle S.  
 Hinrichs, Henry, Jr.  
 Hintz, Mrs. Aurelia  
     Bertol  
 Hirsch, Edwin W.  
 Hirsch, LeRoy E.  
 Histed, J. Roland  
 Hixon, Mrs. Robert  
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 Hodgson, Mrs. G. C.  
 Hoefman, Harold L.  
 Hoffman, Miss  
     Elizabeth  
 Hoffman, Edward  
     Hempstead  
 Hoffman, Raymond A.  
 Hogan, Robert E.  
 Hokin, Edwin E.  
 Holabird, W. S., Jr.  
 Holden, Edward A.  
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 Hollander, Mrs. Samuel  
 Holleb, Marshall M.  
 Holleb, A. Paul  
 Hollenbach, Louis  
 Holliday, W. J.  
 Hollins, Gerald  
 Holloway, Allen D.  
 Holloway, J. L.  
 Holmberg, Mrs.  
     Adrian O.  
 Holmblad, Dr.  
     Edward C.  
 Holmburger, Max  
 Holmes, Miss Harriet F.  
 Holmes, J. A.  
 Holmes, William  
 Holmes, William N.  
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 Holt, McPherson  
 Holub, Anthony S.  
 Holzheimer, Carl  
 Hooper, Miss Frances  
 Hoover, Mrs. Fred W.  
 Hoover, H. Earl  
 Hope, Alfred S.  
 Hopkins, Albert L.  
 Hopkins, Mrs. James M.  
 Hopkins, Mrs.  
     James M., Jr.  
 Horcher, William W.  
 Horne, Mrs. William  
     Dodge, Jr.  
 Horner, Mrs.  
     Maurice L., Jr.  
 Horton, Mrs. Helen  
 Horton, Horace B.  
 Horween, Arnold  
 Horween, Isidore  
 Hosbein, Louis H.  
 Hough, Frank G.  
 Hovland, Mrs. John P.  
 Howard, Bailey K.  
 Howe, Charles Albee  
 Howe, Clinton W.  
 Howe, Ralph B.  
 Howe, Roger F.  
 Howes, Mrs. Frank W.  
 Howie, Mrs. James E.  
 Howse, Richard G.  
 Howson, Louis R.  
 Hoyne, Miss Susan D.  
 Hoyt, Mrs. Phelps B.  
 Hraback, L. W.  
 Hrdlicka, Mrs. John D.  
 Huber, Dr. Harry Lee  
 Hudson, Miss  
     Katherine J.  
 Huey, Mrs. A. S.  
 Hufty, Mrs. F. P.  
 Huggins, G. A.  
 Hughes, Dr. Charles E.  
 Hughes, John E.  
 Hume, James P.  
 Humphrey, H. K.  
 Huncke, Oswald W.  
 Hunding, B. N.  
 Hunt, George L.  
 Hunt, Jarvis  
 Huska, Mrs. Joseph  
 Hust, George  
 Huszagh, Ralph D.  
 Hutchinson, Foye P.  
 Hutchinson, Samuel S.  
 Hyatt, R. C.  
 Ickes, Raymond W.  
 Idelman, Bernard  
 Igoe, Michael L.  
 Iker, Charles  
 Ilg, Robert A.  
 Illich, George M., Jr.  
 Ingalls, Allin K.  
 Ingersoll, Mrs. S. L.  
 Ingram, Frank H.  
 Inlander, N. Newton  
 Inlander, Samuel  
 Inlons, Dr. Ernest E.  
 Isham, George S.  
 Isham, Henry P.  
 Isham, Henry P., Jr.  
 Ives, Clifford E.  
 Ives, George R.  
 Jackson, Allan  
 Jackson, Archer L.  
 Jackson, Mrs. W. A.  
 Jacobi, Miss Emily C.  
 Jacobs, Julius  
 Jacobs, Mrs. Walter H.  
 Jacobson, Raphael  
 James, Walter C.  
 Jameson, Clarence W.  
 Jancosek, Thomas A.  
 Jansey, Dr. Felix  
 Janson, Dr. C. Helge M.  
 Janusch, Fred W.  
 Jarchow, Mrs. C. E.  
 Jeffries, Dr. Daniel W.  
 Jerger, Wilbur Joseph  
 Jetzinger, David  
 Jirgal, John  
 Jirka, Dr. Frank J.  
 John, Dr. Findley D.  
 Johnson, Dr. Adelaide  
 Johnson, Alvin O.  
 Johnson, Calmer L.  
 Johnson, Mrs. Harley  
     Alden  
 Johnson, Hjalmar W.  
 Johnson, Norman E.  
 Johnson, Mrs. O. W.  
 Johnson, P. Sveinbjorn  
 Johnson, Philip C.  
 Johnston, Edward R.  
 Johnston, Miss Fannie S.  
 Johnston, Mrs. Hubert  
     McBean  
 Johnston, Mrs. M. L.  
 Jolly, Miss Eva Josephine  
 Jonak, Frank J.  
 Jones, Dr. Fiske  
 Jones, Gordon M.  
 Jones, James B.  
 Jones, Dr. Margaret M.  
 Jones, Melvin  
 Jones, Miss Susan E.  
 Joseph, Mrs. Jacob G.  
 Joseph, Louis L.  
 Joy, Guy A.  
 Judson, Clay  
 Juergens, H. Paul  
 Julien, Victor R.

ASSOCIATE MEMBERS (CONTINUED)

- Kahn, Mrs. Arthur S.  
 Kahn, J. Kesner  
 Kahn, Jerome J.  
 Kaine, James B.  
 Kamins, Dr. Maelyn M.  
 Kane, Jerome M.  
 Kanter, Jerome J.  
 Kaplan, Morris I.  
 Kaplan, Nathan J.  
 Kaplan, Stanley A.  
 Kasch, Frederick M.  
 Katz, Mrs. Sidney L.  
 Katz, Solomon  
 Katzenstein, Mrs.  
     George P.  
 Katzin, Frank  
 Kauffmann, Alfred  
 Kaufman, Justin  
 Kaufmann, Dr.  
     Gustav L.  
 Kavanagh, Clarence H.  
 Kay, Mrs. Marie E.  
 Keach, Benjamin  
 Keare, Mrs. Spencer R.  
 Kehoe, Mrs. High Boles  
 Keith, Stanley  
 Kelemen, Rudolph  
 Kelly, Arthur Lloyd  
 Kelly, Barbara Wetten  
 Kelly, Mrs. Haven Core  
 Kelly, T. Lloyd  
 Kemper, Hathaway G.  
 Kemper, Miss Hilda M.  
 Kemper, James S.  
 Kempner, Harry B.  
 Kempner, Stan  
 Kendrick, John F.  
 Kennedy, Mrs. E. J.  
 Kennedy, Lesley  
 Kenney, Clarence B.  
 Kenny, Henry  
 Kent, Robert H.  
 Kern, Mrs. August  
 Kern, H. A.  
 Kern, Dr. Nicholas H.  
 Kern, Trude  
 Kerwin, Edward M.  
 Kestnbaum, Meyer  
 Kettering, Mrs.  
     Eugene W.  
 Ketzler, A. C.  
 Kew, Mrs. Stephen M.  
 Kidwell, L. B.  
 Kiessling, Mrs. Charles S.  
 Kile, Miss Jessie J.  
 Kimball, Paul C.  
 Kimball, William W.  
 Kimbark, John R.  
 King, Mrs. Charles G.  
 King, Clinton B.  
 King, Harold R.  
 Kingman, Mrs. Arthur G.  
 Kinsey, Robert S.  
 Kirkland, Mrs.  
     Weymouth  
 Kirst, Lyman R.  
 Kitchell, Howell W.  
 Kitzelman, Otto  
 Klee, Steven Michael  
 Kleinpell, Dr. Henry H.  
 Kleist, Mrs. Harry  
 Kleppinger, William H.  
 Kleutgen, Dr. Arthur C.  
 Klinetop, Mrs. Charles W.  
 Knapp, William G.  
 Knickerbocker, Miss  
     Paula  
 Knight, Howard  
 Knight, John S.  
 Knopf, Andrew J.  
 Knutson, George H.  
 Koch, Mrs. Fred J.  
 Koch, Raymond J.  
 Koch, Robert J.  
 Kochs, August  
 Koehnlein, Wilson O.  
 Kohn, Henry L.  
 Kolbe, Frank F.  
 Kolehmainen, Waino M.  
 Kopf, Miss Isabel  
 Kopinski, Louis  
 Koppnaal, Dr.  
     Elizabeth Thompson  
 Kornblith, Mrs.  
     Howard G.  
 Kosmach, Frank P.  
 Kosobud, William F.  
 Kotal, John A.  
 Kotin, George N.  
 Koucky, Dr. J. D.  
 Kraft, John H.  
 Kraft, Norman  
 Kralovec, Emil G.  
 Kralovec, Mrs. Otto J.  
 Kraus, Samuel B.  
 Kraus, William C.  
 Krautter, L. Martin  
 Kresl, Carl  
 Kretschmer,  
     Herman L., Jr.  
 Krez, Leonard O.  
 Kridler, E. A.  
 Kroehler, Kenneth  
 Kroeschell, Robert A.  
 Kropff, C. G.  
 Krost, Dr. Gerard N.  
 Kuehn, A. L.  
 Kuh, Mrs. Edwin J., Jr.  
 Kuhn, Frederick T.  
 Kuhn, Dr. Hedwig S.  
 Kunka, Bernard J.  
 Kunstadter, Albert  
 Kunstadter, Sigmund W.  
 Kurfess, John Fredric  
 Kurtzon, Morris  
 Kurzdorfer, E. T.  
 Kutchins, Edmund  
 Laadt, George A.  
 Lacey, Miss Clara R.  
 Laffin, Miss June  
     Atchison  
 Laffin, Louis E., Jr.  
 Laffin, Mrs. Louis E., Jr.  
 Laffin, Louis E., III  
 Laffin, Miss Mary  
     Josephine  
 Laing, Mrs. Milton L.  
 Laing, William  
 Lambert, C. A.  
 Lambrecht, Carl R., Jr.  
 Lampert, Wilson W.  
 Lanahan, Mrs. M. J.  
 Lane, F. Howard  
 Lang, Edward J.  
 Langdon, Lawrence E.  
 Langenbach, Mrs. Alice R.  
 Langford, Mrs. Robert E.  
 Langhorne, George  
     Tayloe  
 Lanman, Mrs.  
     Edward Boylston  
 Lansinger, Mrs. John M.  
 Larimer, Howard S.  
 Larkin, Mrs. Walter D.  
 Larsen, Samuel A.  
 Larson, Mrs. Sarah G.  
 Lasch, Harry  
 Lassers, Sanford B.  
 Latshaw, Dr. Blair S.  
 Lautmann, Herbert M.  
 Lavers, A. W.  
 Lavidge, Arthur W.  
 Law, Mrs. Robert O.  
 Lawless, Dr. Theodore K.  
 Lawson, David A.  
 Lax, John Franklin  
 Layden, Michael J.  
 Lazar, Maurice  
 Leahy, George J.  
 Leahy, James F.  
 Leavell, James R.  
 Le Baron, Miss Edna  
 Lebold, Samuel N.  
 Lebolt, John Michael  
 Lederer, Dr. Francis L.  
 Lee, David Arthur  
 Lefens, Miss Katherine J.  
 Lefens, Walter C.  
 Lehmann, Robert O.  
 Leichenko, Peter M.  
 Leight, Mrs. Albert E.  
 Leighton, George N.

ASSOCIATE MEMBERS (CONTINUED)

- Leland, Miss Alice J.  
 Leland, Mrs. Rosco G.  
 Lennon, George W.  
 Lenz, J. Mayo  
 Leonard, Arthur T.  
 Lerch, William H.  
 Lessman, Gerhard  
 Le Tourneau, Mrs.  
     Robert  
 Levi, Julian H.  
 Levinson, Mrs. Salmon O.  
 Levitan, Benjamin  
 Levy, Alexander M.  
 Levy, Arthur G.  
 Lewendowski,  
     Sigmund W.  
 Lewis, Mrs. J. J.  
 L'Hommedieu, Arthur  
 Liebenow, J. Gus  
 Liebenson, Harold A.  
 Lilien, Mrs. K. K.  
 Lill, George, II  
 Lillyblade, Clarence O.  
 Lindar, Albert J.  
 Linden, John A.  
 Lindheimer, B. F.  
 Linn, Howard  
 Little, Mrs. E. H.  
 Littler, Harry E., Jr.  
 Livingston, Julian M.  
 Livingston, Mrs.  
     Milton L.  
 Lizzarde, Joseph F.  
 Llewellyn, Mrs. Ross  
 Lodge, Robert H.  
 Loeb, Hamilton M.  
 Loewenberg, Israel S.  
 Loewenberg, M. L.  
 Loewenherz, Emanuel  
 Loewenstein, Richard M.  
 Loewy, Dr. Arthur  
 Long, William E.  
 Loomis, D. P.  
 Loomis, Reamer G.  
 Lord, Arthur R.  
 Lord, John S.  
 Lord, Mrs. Russell  
 Lotz, Philip W.  
 Loucks, Charles O.  
 Louer, Albert E. M.  
 Louis, Mrs. John J.  
 Lovgren, Carl  
 Lowell, Arthur J.  
 Lucey, Patrick J.  
 Ludgin, Earle  
 Ludolph, Wilbur M.  
 Lundy, Dr. Clayton J.  
 Luria, Herbert A.  
 Lusk, R. R.  
 Lustgarten, Samuel  
 Lydon, Robert R.  
 Lyford, Harry B.  
 Lynch, J. W.  
 Lyon, Charles H.  
 Mabee, Mrs. Melbourne  
 MacDonald, E. K.  
 MacIntyre, Mrs. M. K.  
 MacKenzie, William J.  
 Mackey, Frank J.  
 Mackinson, Dr. John C.  
 Mackoff, Mrs. Saul  
 MacLellan, K. F.  
 MacMurray, Mrs.  
     Donald  
 Madlener, Mrs.  
     Albert F., Jr.  
 Madlener, Otto  
 Madrin, Mrs. Charles  
 Maehler, Edgar E.  
 Magan, Miss Jane A.  
 Magerstadt, Madeline  
 Magnus, Albert, Jr.  
 Magnuson, Mrs. Paul  
 Maher, Mrs. D. W.  
 Main, Walter D.  
 Majka, F. L.  
 Majors, Mrs. B. S.  
 Makler, Joseph H.  
 Maling, Albert  
 Manasse, De Witt J.  
 Manaster, Harry  
 Mandel, Mrs. Aaron W.  
 Mandel, Edwin F.  
 Mandel, Miss Florence  
 Mandel, Mrs. Robert  
 Manegold, Mrs.  
     Frank W.  
 Manierre, Louis  
 Manz, Mrs. Carolyn D.  
 Maremont, Arnold H.  
 Mark, Griffith  
 Marker, Van E.  
 Marquart, Arthur A.  
 Marsh, A. Fletcher  
 Marsh, Mrs. Marshall S.  
 Marsh, Peter John  
 Martin, Mrs. George B.  
 Martin, George F.  
 Martin, Samuel H.  
 Martin, Wells  
 Marx, Adolf  
 Marzluff, Frank W.  
 Marzola, Leo A.  
 Mason, Willard J.  
 Masse, B. A.  
 Masterson, Peter  
 Mathesius, Mrs. Walther  
 Matson, J. Edward  
 Maurer, Dr. Siegfried  
 Maxant, Basil  
 Maxwell, Lloyd R.  
 Maxwell, W. Stirling  
 Mayer, Frank D.  
 Mayer, Herman J., Jr.  
 Mayer, Isaac H.  
 Mayer, Leo  
 Mayer, Oscar G.  
 Mazurek, Miss Olive  
 McAlvin, Mrs. James H.  
 McArthur, Billings M.  
 McCahey, James B.  
 McCarthy, Joseph W.  
 McCausland, Mrs.  
     Clara L.  
 McCloud, Thomas W.  
 McClun, John M.  
 McCormick, Mrs.  
     Chauncey  
 McCormick, Howard H.  
 McCormick, Leander J.  
 McCormick,  
     Robert H., Jr.  
 McCormick, Roger  
 McCrea, Mrs. W. S.  
 McCreight, Louis Ralph  
 McCutcheon, Mrs.  
     John T.  
 McDonald, E. F., Jr.  
 McDonald, Lewis  
 McDougal, C. Bouton  
 McDougal, David B.  
 McDougal, Mrs. James B.  
 McDougal, Mrs. Robert  
 McErlean, Charles V.  
 McGraw, Max  
 McGurn, Matthew S.  
 McKinney, Mrs. Hayes  
 McLennan, Mrs.  
     Donald R., Sr.  
 McLennan, William L.  
 McMenemy, Logan T.  
 McMillan, John  
 McMillan, W. B.  
 McNair, F. Chaloner  
 McNamara, Louis G.  
 McNamara, Robert C.  
 McNamee, Peter F.  
 McNulty, Joseph D.  
 McPherson, Cleo Edwin  
 McQuarrie, Mrs. Fannie  
 McReynolds, Mrs.  
     Ruth M.  
 Mead, Dr. Henry C. A.  
 Medsker, Dr. Ora L.  
 Meers, Henry W.  
 Mehan, Mrs. Georgette  
 Meidell, Harold  
 Melcher, George Clinch  
 Mellody, Miss Margaret  
 Melnick, Leopold B.  
 Merriam, Miss Eleanor  
 Merrill, Miss Marion E.

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- Metz, Dr. Arthur R.  
 Metzger, Roswell W.  
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 Meyer, Charles A.  
 Meyer, Dr. Charles A.  
 Meyer, Charles Z.  
 Meyerhoff, A. E.  
 Meyers, Erwin A.  
 Meyers, Jonas  
 Michaels, Allen C.  
 Michaels, Everett B.  
 Michel, D. Daniel  
 Michel, Dr. William J.  
 Michet, Dr. Clement J.  
 Middleton, J. A.  
 Midowicz, C. E.  
 Mielenz, Robert K.  
 Milburn, Miss Anne L.  
 Milhening, Frank  
 Milhoan, F. B.  
 Miller, Miss Bertie E.  
 Miller, Mrs. Clayton W.  
 Miller, Creighton S.  
 Miller, Mrs. Donald J.  
 Miller, Mrs. F. H.  
 Miller, Mrs. George  
 Miller, Hyman  
 Miller, John S.  
 Miller, Mrs. Olive  
     Beaupre  
 Miller, Oren Elmer  
 Miller, Oscar C.  
 Miller, William H.  
 Milliken, John F.  
 Mills, Allen G.  
 Mills, Mrs. Dorothy  
     Stone  
 Mills, Lloyd Langdon  
 Miner, Dr. Carl S.  
 Miner, Wesley A.  
 Mitchell, John J.  
 Mock, Dr. Harry Edgar  
 Moeller, George  
 Moist, Mrs. Samuel E.  
 Mojonnier, Timothy  
 Mollan, Mrs. Ferne T.  
 Molloy, David J.  
 Mong, Mrs. C. R.  
 Monheimer, Henry I.  
 Moore, Chester G.  
 Moore, Harold A.  
 Moore, Paul  
 Moore, Philip Wyatt  
 Morey, Dr. Charles W.  
 Morgan, Miss  
     Elizabeth W.  
 Moroni, Aldo L.  
 Morrison, Mrs. Harry  
 Morrison, James C.  
 Morrow, Mrs. John, Jr.  
 Morse, Mrs. Charles J.  
 Morse, Leland R.  
 Morse, Mrs. Milton M.  
 Morse, Robert H.  
 Morton, Sterling  
 Moses, Howard A.  
 Mosher, Edward A.  
 Moss, Jerome A.  
 Mossman, John E.  
 Mouat, Andrew J.  
 Moxon, Dr. George W.  
 Moyer, Mrs. Paul S.  
 Muehlstein, Mrs.  
     Charles  
 Mueller, Austin M.  
 Mueller, J. Herbert  
 Mulhern, Edward F.  
 Munroe, Moray  
 Murphy, Joseph D.  
 Murphy, O. R.  
 Murphy, Robert E.  
 Muszynski, John J.  
 Myrland, Arthur L.  
 Naess, Sigurd E.  
 Nagel, Mrs. Frank E.  
 Nance, Willis D.  
 Naumann, Miss Susan  
 Nebel, Herman C.  
 Neely, Mrs. Lloyd F.  
 Nehls, Arthur L.  
 Nelson, Arthur W.  
 Nelson, Charles G.  
 Nelson, Donald M.  
 Nelson, James S.  
 Nelson, Victor W.  
 Neskow, Dr. Peter S. Y.  
 Nessler, Robert P.  
 Neuman, Sidney  
 Neumann, Arthur E.  
 Newberger, Joseph  
     Michael  
 Newhouse, Karl H.  
 Newman, Charles H.  
 Newton, C. G.  
 Nichols, Frank Billings  
 Nichols, J. C.  
 Nilsson, Mrs.  
     Goodwin M.  
 Nishkian, Mrs.  
     Vaughn G.  
 Nitze, Mrs. William A.  
 Noble, Daniel E.  
 Noble, Samuel R.  
 Noonan, Edward J.  
 Norem, Mrs. Lawrence E.  
 Norian, Richard  
 Norman, Harold W.  
 Norris, Mrs. Lester  
 Norton, Christopher D.  
 Novak, Charles J.  
 Noyes, Allan S.  
 Noyes, Mrs. May Wells  
 Nusbaum, Mrs.  
     Hermien D.  
 Nyman, Dr. John Egbert  
 Oberfelder, Walter S.  
 Obermaier, John A.  
 O'Brien, Miss Janet  
 O'Connell, Edmund  
     Daniel  
 Offield, Wrigley  
 Oglesbee, Nathan H.  
 O'Keefe, William F.  
 Okner, Dr. Henry B.  
 Olaison, Miss Eleanor O.  
 Oldefest, Edward G.  
 Oleson, Wrisley B.  
 Olin, Carl E.  
 Oliver, Mrs. Paul  
 Olsen, Miss Agnes J.  
 Olsen, Mrs. Arthur O.  
 O'Neil, Dr. Owen  
 O'Neill, J. W.  
 Onofrio, Mrs. Michael J.  
 Ooms, Casper William  
 Opeka, Frank M.  
 Oppenheimer, Mrs.  
     Harry D.  
 Oppenheimer, Seymour  
 Orndoff, Dr. Benjamin H.  
 O'Rourke, Albert  
 O'Rourke, Mrs. Harry J.  
 Orr, Mrs. Robert C.  
 Orr, Thomas C.  
 Ortmayer, Dr. Marie  
 Oser, Nelson A.  
 Osgood, Mrs. Gilbert H.  
 Ostrom, Mrs. J. Augustus  
 O'Sullivan, James J.  
 Otis, Joseph E.  
 Otis, Joseph Edward, Jr.  
 Otis, Peter Witherspoon  
 Otis, Stuart Huntington  
 O'Toole, Donald  
 Owens, Harry J.  
 Paasche, Jens A.  
 Packard, Dr. Rollo K.  
 Paepcke, Walter P.  
 Page, John W.  
 Pain, F. W.  
 Pallasch, Dr. Gervaise P.  
 Palm, Felix  
 Palmer, James L.  
 Palmgren, Mrs.  
     Charles A.  
 Pandaleon, Costa A.  
 Pardee, Harvey S.  
 Partridge, Mrs. E. W.  
 Park, R. E.  
 Parker, Miss Edith P.



ASSOCIATE MEMBERS (CONTINUED)

- Parker, Norman S.  
Parker, Troy L.  
Parks, C. R.  
Parmelee, Dr. A. H.  
Parry, Mrs. Norman G.  
Partridge, Lloyd C.  
Paschen, Mrs. Henry  
Pashkow, A. D.  
Patchen, Dr. Paul J.  
Patterson, Grier D.  
Patterson, R. Curtis  
Patterson, Thomas A.  
Patton, A. E.  
Patzelt, Miss Janet  
Peabody, Howard B.  
Peabody, Miss Susan W.  
Peacock, Charles D., III  
Pearl, Allen S.  
Pearse, Mrs. Langdon  
Pearson, George  
    Albert, Jr.  
Peirce, Albert E.  
Pellicore, Dr.  
    Raymond J.  
Pencik, Jan M.  
Percy, Dr. Mortimer  
    Nelson  
Perel, Harry Z.  
Perlman, Daniel  
Perry, Mrs. I. Newton  
Peters, Harry A.  
Petersen, Jurgen  
Petersen, William O.  
Peterson, Mrs.  
    Elizabeth F.  
Pfaelzer, Miss  
    Elizabeth W.  
Pflock, Dr. John J.  
Phillips, Dr. Herbert  
    Morrow  
Phoenix, George E.  
Pick, Frederic G.  
Pierce, J. Norman  
Pierce, Paul, Jr.  
Pierson, Joseph B.  
Pillsbury, Mrs. C. S.  
Pink, Mrs. Ira M.  
Pirie, Mrs. John T.  
Plapp, Miss Doris A.  
Platt, Edward Vilas  
Platt, Mrs. Robert S.  
Plochman, Cordelia G.  
Plummer, Comer  
Pobloske, Albert C.  
Podell, Mrs. Beatrice  
    Hayes  
Pollak, Charles A.  
Polyak, Stephen, Jr.  
Poor, Mrs. Fred A.  
Pope, Mrs. Henry, Jr.  
Pope, Herbert  
Pope, John W.  
Popenhagen, Henry J.  
Porter, Edward C.  
Porter, Mrs. Frank S.  
Porter, Henry H.  
Porter, L. W.  
Porter, Louis  
Porter, Mrs. Sidney S.  
Post, Mrs. Philip Sidney  
Pottenger, William A.  
Potts, Albert W.  
Poulson, Mrs. Clara L.  
Powills, Michael A.  
Prall, Bert R.  
Pray, Max  
Price, John McC.  
Primley, Walter S.  
Prince, Mrs. Arthur C.  
Prince, Harry  
Prince, Rev. Herbert W.  
Prince, Leonard M.  
Pritchard, Richard E.  
Probst, Marvin G.  
Proxmire, Dr.  
    Theodore Stanley  
Prussing, Mrs. R. E.  
Pucci, Lawrence  
Purcell, Joseph D.  
Purcey, Victor W.  
Puttkammer, E. W.  
Quick, Miss Hattiemae  
Quigley, Jack A.  
Racheff, Ivan  
Radford, Mrs. W. A., Jr.  
Radovich, Miss Bessie  
Raff, Mrs. Arthur  
Raftree, Miss Julia M.  
Railton, Miss Frances  
Ramis, Leon Lipman  
Randall, Rev. Edwin J.  
Randall, Irving  
Raney, Mrs. R. J.  
Rankin, Miss Jessie H.  
Rathje, Frank C.  
Ratner, Walter B.  
Ray, Harold R.  
Raymond, Mrs.  
    Howard D.  
Reach, Benjamin F.  
Reals, Miss Lucile  
    Farnsworth, Jr.  
Redfield, William M.  
Reed, Guy E.  
Reed, John S.  
Reed, Mrs. Lila H.  
Reed, Mrs. Philip L.  
Regan, Mrs. Robert G.  
Regenstein, Joseph, Jr.  
Regnery, Frederick L.  
Reid, Mrs. Bryan  
Reid, Robert H.  
Reilly, Vincent P.  
Renaldi, George J.  
Renn, Mrs. John A.  
Renshaw, Mrs. Charles  
Re Qua, Mrs. Charles  
    Howard, Jr.  
Re Qua, Haven A.  
Rew, Mrs. Irwin  
Reynolds, Mrs.  
    G. William  
Reynolds, Harold F.  
Rhodes, Charles M.  
Rice, Mrs. Charles R.  
Rice, Laurence A.  
Rich, Elmer  
Rich, Harry  
Richards, Mrs. Bartlett  
Richards, Donald  
Richards, Marcus D.  
Richardson, George A.  
Richardson, Guy A.  
Richter, Mrs. Adelyn W.  
Rieser, Leonard M.  
Rietz, Elmer W.  
Rietz, Walter H.  
Rinaldo, Philip S., Jr.  
Rindfleisch, Keith P.  
Ripstra, J. Henri  
Risdon, Russell R.  
Ritchie, Mrs. John  
Rittenhouse, Charles J.  
Roberts, John M.  
Roberts, William  
    Munsell  
Robinson, Edward  
Robinson,  
    Theodore W., Jr.  
Robinson, William S.  
Roderick, Solomon P.  
Rodgers, Dr. David C.  
Rodman, Thomas  
    Clifford  
Rodman, Mrs. Hugh  
Roebuck, Mrs. A. S.  
Roehling, Mrs. Otto G.  
Roehm, George R.  
Rogers, Miss Annie T.  
Rogers, Lester C.  
Roggenkamp, John  
Rolnick, Dr. Harry C.  
Romane, Julian J. (Pat)  
Root, John W.  
Rosborough, Dr. Paul A.  
Rose, Miss Evelyn  
Rosen, M. R.  
Rosenbaum, Mrs.  
    Edwin S.  
Rosenbaum, Mrs.  
    Harold A.

ASSOCIATE MEMBERS (CONTINUED)

- Rosenfeld, M. J.  
 Rosenstone, Nathan  
 Rosenstone, Samuel  
 Rosenthal, M. A.  
 Rosenthal, Samuel R.  
 Rosenwald, Richard M.  
 Ross, Earl  
 Ross, Robert C.  
 Ross, Mrs. Robert E.  
 Ross, Thompson  
 Ross, Walter S.  
 Roth, Mrs. Margit  
     Hochsinger  
 Rothacker, Watterson R.  
 Rothschild, George  
     William  
 Rothschild,  
     Melville N., Jr.  
 Routh, George E., Jr.  
 Rozelle, Mrs. Emma  
 Rubinson, Kenneth Alan  
 Rubloff, Arthur  
 Ruettinger, John W.  
 Runnells, John S.  
 Rutledge, George E.  
 Ryan, Arthur  
 Ryan, Eugene F.  
 Ryerson, Mrs.  
     Donald M.
- Sackett, Samuel J.  
 Sackheim, Judd  
 Sage, W. Otis  
 Saks, Benjamin  
 Salk, Erwin A.  
 Salk, Dr. Melvin R.  
 Salmon, Mrs. E. D.  
 Sample, John Glen  
 Sampsell, Marshall G.  
 Sandidge, Miss Daisy  
 Sandler, George S.  
 Sands, Mrs. Frances B.  
 Santini, Mrs. Randolph  
 Sargent, Chester F.  
 Sargent, Ralph  
 Sauter, Fred J.  
 Sawyer, Dr. Alvah L.  
 Sawyer, Calvin P.  
 Schact, John H.  
 Schaefer, Fred A.  
 Schafer, Mrs. Elmer J.  
 Schaffner, Mrs. L. L.  
 Scharin, Mrs. J. Hippach  
 Scheinman, Jesse D.  
 Schenck, Frederick  
 Schick, Dr. Armin F.  
 Schlatter, Miss Nina E.  
 Schlichting, Justus L.  
 Schmidt, Dr. Charles L.  
 Schmidt, Mrs. Minna M.  
 Schmitz, Dr. Henry
- Schneider, D. G.  
 Schneider, F. P.  
 Schnering, P. B.  
 Schnering, Robert B.  
 Schnur, Ruth A.  
 Schnute, Dr. William J.  
 Scholl, Dr. William M.  
 Schonne, Mrs.  
     Charles W.  
 Schreiner, Sigurd  
 Schrey, Dr. Edward L.  
 Schroeder, Paul A.  
 Schueren, Arnold C.  
 Schulze, Mrs. Mathilde  
 Schupp, Philip C.  
 Schurig, Robert Roy  
 Schuyler, Mrs.  
     Daniel J.  
 Schwab, Laurence E.  
 Schwander, J. J.  
 Schwandt, Miss Erna  
 Schwanke, Arthur  
 Schwartz, Charles K.  
 Schwartz, Charles P.  
 Schwartz, Dr. Otto  
 Schwinn, Frank W.  
 Scott, Miss Maud E.  
 Scott, Willis H.  
 Scribner, Gilbert  
 Scudder, Mrs.  
     William M.  
 Searle, Daniel C.  
 Searle, Mrs. Nell Y.  
 Searle, William L.  
 Sears, Miss Dorothy  
 Sears, J. Alden  
 Seaton, G. Leland  
 Seaverns, Louis C.  
 Sedgwick, C. Galen  
 See, Dr. Agnes Chester  
 Seeburg, Justus P.  
 Segal, Victor  
 Seifert, Mrs. Walter J.  
 Seip, Emil G.  
 Seipp, Clarence T.  
 Seipp, Edwin A., Jr.  
 Seipp, William C.  
 Selig, Lester N.  
 Selseth, Ole  
 Sencenbaugh, Mrs. C. W.  
 Senne, John A.  
 Serota, Dr. H. M.  
 Shanahan, Mrs. David E.  
 Sharp, Carl J.  
 Sharrow, H. N.  
 Shaw, Alfred P.  
 Shaw, Mrs. Arch W.  
 Sheldon, James M.  
 Shelton, Dr. W. Eugene  
 Shepherd, Mrs. Edith P.  
 Shepherd, Miss Olive M.
- Sherman, Mrs. W. W.  
 Shillestad, John N.  
 Shillinglaw, David L.  
 Shoan, Nels  
 Shorey, Clyde E.  
 Shroyer, Malcolm E.  
 Shumway, Edward D.  
 Shumway, Mrs. Edward  
     De Witt  
 Shumway, Spencer  
     Thomas  
 Sieck, Herbert  
 Siemund, Roy W.  
 Sieracki, Mrs. Anton  
 Silander, A. I.  
 Silberman, Charles A.  
 Silberman, David, Jr.  
 Silberman, David B.  
 Silberman, Hubert S.  
 Sill, Vincent D.  
 Sills, Clarence W.  
 Silverstein, Ramond  
 Simond, Robert E.  
 Simonds, Dr. James P.  
 Simpson, Lyman M.  
 Sincere, Henry B.  
 Sinclair, Dr. J. Frank  
 Singer, Mrs. Mortimer H.  
 Singer, William A.  
 Sinsheimer, Allen  
 Siragusa, Ross D.  
 Sisskind, Louis  
 Sittler, Edwin C.  
 Sivage, Gerald A.  
 Skarrn, Kenneth W.  
 Skleba, Dr. Leonard F.  
 Slater, Frederick J.  
 Sleeper, Mrs. Olive C.  
 Smallberg, Dr.  
     William A.  
 Smith, Harold Byron  
 Smith, Mrs. Hermon  
     Dunlap  
 Smith, J. P.  
 Smith, Jens  
 Smith, Mrs.  
     Katharine Walker  
 Smith, Mrs. Kinney  
 Smith, L. Richard  
 Smith, Lynwood  
 Smith, Miss Marion D.  
 Smith, Paul C.  
 Smith, Mrs. Ruth B.  
 Smith, Mrs. Theodore  
     White  
 Smith, Z. Erol  
 Smuk, Dr. J. E.  
 Smullan, Alexander  
 Snyder, Harry  
 Sola, Joseph G.  
 Solem, Dr. George O.

ASSOCIATE MEMBERS (CONTINUED)

- Solomon, Alfred B.  
 Soper, Henry M.  
 Sopkin, Mrs. Setia H.  
 Sorensen, Stanley M.  
 Spacek, Leonard P.  
 Spatta, George  
 Speer, Robert J.  
 Spencer, Mrs.  
     Frederich L.  
 Spencer, John P.  
 Spencer, Mrs. William M.  
 Sperry, Mrs. Leonard M.  
 Spertus, Herman  
 Spiegel, Mrs. Arthur H.  
 Spiegel, Mrs. Gatzert  
 Spiegel, Dr. Manuel  
 Spiegel, Peter J.  
 Spitz, Joel  
 Sporrer, M. J.  
 Sprague, Dr. John P.  
 Spray, Cranston  
 Squires, John G.  
 Stacey, Mrs. Thomas I.  
 Staehle, Jack C.  
 Starbird, Miss Myrtle I.  
 Starrels, Joel  
 Stateler, C. B.  
 Stebbins, Fred J.  
 Steele, Henry B., Jr.  
 Steepleton, A. Forrest  
 Stein, Mrs. Henry L.  
 Stein, Dr. Irving, Sr.  
 Stein, Sydney, Jr.  
 Steinberg, Dr. Milton  
 Steiner, George R.  
 Stenson, Frank R.  
 Stephan, Mrs. John  
 Stephani, Edward J.  
 Sterba, Dr. Joseph V.  
 Stern, Mrs. Alfred  
 Stern, Alfred Whital  
 Stern, David B.  
 Stern, Gardner H.  
 Stern, Oscar D.  
 Stevens, Delmar A.  
 Stevens, Elmer T.  
 Stevens, Harold L.  
 Stevenson, Engval  
 Stewart, John  
 Stipp, John E.  
 Stirling, Miss Dorothy  
 Stolp, John A.  
 Stone, Mrs. Theodore  
 Stough, Mrs. Jay  
 Straus, Henry H.  
 Straus, Martin L.  
 Straus, Melvin L.  
 Strauss, Dr. Alfred A.  
 Strauss, Mrs.  
     Herman A.  
 Strauss, Ivan  
 Strauss, John L.  
 Strauss, Marshall E.  
 Straw, Mrs. H. Foster  
 Strickfaden, Miss  
     Alma E.  
 Stromberg, Charles J.  
 Strong, Edmund H.  
 Strong, M. D.  
 Strong, Mrs. Walter A.  
 Strotz, Harold C.  
 Stulik, Dr. Charles  
 Summer, Mrs. Edward  
 Sundin, Ernest G.  
 Suomela, John P.  
 Sutherland, William  
 Swain, David F.  
 Swanson, Holgar G.  
 Swartchild, Edward G.  
 Swartchild, William G.  
 Swett, Robert Wheeler  
 Swibel, Charles R.  
 Swift, Mrs. Alden B.  
 Swift, Edward F., Jr.  
 Swift, George H., Jr.  
 Swift, Gustavus F., Jr.  
 Sykes, Aubrey L.  
 Sykes, Mrs. Wilfred  
 Tarrant, Mrs. Robert  
 Tarrant, Ross  
 Tax, Dr. Sol  
 Taylor, E. Hall  
 Taylor, Frank F.  
 Taylor, Herbert J.  
 Taylor, L. S.  
 Taylor, Orville  
 Temple, Charles Vaché  
 Templeton, Walter L.  
 Terry, Foss Bell  
 Thatcher, Everett A.  
 Thelen, Floyd E.  
 Thomas, Mrs. Florence T.  
 Thomas, Dr. William A.  
 Thomas, W. E.  
 Thompson, Arthur H.  
 Thompson, Ernest H.  
 Thompson, Floyd E.  
 Thompson, Dr. George F.  
 Thompson, John E.  
 Thornburn, John N.  
 Thorne, Hallett W.  
 Thornton, Roy V.  
 Thorson, Reuben  
 Thresher, C. J.  
 Thulin, F. A.  
 Tibbetts, Mrs. N. L.  
 Tieken, Theodore  
 Tilden, Louis Edward  
 Tobey, William Robert  
 Tockstein, Miss  
     Mary Louise  
 Todt, Mrs. Edward G.  
 Topaz, Martin  
 Torbet, A. W.  
 Torosian, Peter G.  
 Torrence, George P.  
 Touchstone, John Henry  
 Towler, Kenneth F.  
 Towne, Mrs. John D. C.  
 Traer, Glenn W.  
 Trask, Arthur C.  
 Traylor, Mrs.  
     Melvin A., Jr.  
 Traylor, Mrs.  
     Melvin A., Sr.  
 Treadwell, H. A.  
 Trenkmann, Richard A.  
 Trimble, Mrs. M. B.  
 Tripp, Chester D.  
 Trombly, Dr. F. F.  
 Trowbridge, Mrs.  
     A. Buel, Jr.  
 Trude, Mrs. Mark W.  
 True, Charles H.  
 Tumpeer, Joseph J.  
 Turner, G. H.  
 Turner, Mrs. Horace E.  
 Turney, Kenneth R.  
 Tyler, Thomas S.  
 Uihlein, Edgar J., Jr.  
 Ullmann, Herbert S.  
 Upham, Mrs.  
     Frederic W.  
 Uriell, Francis H.  
 Utter, Mrs. Arthur J.  
 Vacin, Emil F.  
 Valentine, Andrew L.  
 Valentine, Patrick A.  
 Van Artsdale, Mrs.  
     Flora D.  
 Vance, Dr. Graham A.  
 Van Cleef, Felix  
 Van Cleef, Mrs. Noah  
 Van Cleef, Paul  
 Van Dellen, Dr.  
     Theodore R.  
 Van Deventer,  
     Christopher  
 Vanek, John C.  
 Van Hagen, Miss  
     Elizabeth  
 Van Mell, Herman T.  
 Van Ness, C. Radford  
 Van Schaak, R. H., Jr.  
 Van Winkle, James Z.  
 Van Zwoll, Henry B.  
 Varel, Mrs. C. D.  
 Vawter, William A., II  
 Vehe, Dr. K. L.  
 Vernon, John T.

ASSOCIATE MEMBERS (CONTINUED)

- Verson, David C.  
Vette, J. L.  
Vial, Charles H.  
Vickery, Miss Mabel S.  
Vierling, Mrs. Louis  
Vogel, James B.  
Vogl, Otto  
Von Colditz, Dr.  
    G. Thomsen-  
von Glahn, Mrs. August  
Voorhees, Mrs. Condit  
Voorhees, H. Belin  
Vose, Mrs. Frederic P.  
Voynow, Edward E.
- Wade, Albert G., II  
Wager, William  
Wagner, Mrs. Frances B.  
Wagner, Fritz, Jr.  
Wagner, Richard  
Wahl, Arnold Spencer  
Wakerlin, Dr. George E.  
Waldman, S. C.  
Walgreen, C. R., Jr.  
Walgreen, Mrs.  
    Charles R.  
Walker, James  
Walker, Mrs. Paul  
Walker, Samuel J.  
Walker, William E.  
Waller, Mrs. Edward C.  
Walsh, Dr. Eugene L.  
Wanner, Arthur L.  
Ward, Edwin J.  
Ward, Mrs. N. C.  
Wardwell, H. F.  
Wares, Mrs. Helen Worth  
Warfield, Edwin A.  
Warner, Mrs. John Eliot  
Warren, Paul S.  
Warren, Walter G.  
Warsh, Leo G.  
Washburne, Hempstead  
Washington, Laurence W.  
Wassell, Joseph  
Watkins, George H.  
Watkins, W. W.  
Watson, William Upton  
Watt, Herbert J.  
Watts, Harry C.  
Watzek, J. W., Jr.  
Weaver, John M.  
Webster, Miss Helen R.  
Webster, Henry A.  
Webster, Mrs. R. S.  
Wegrzyn, Dr. John T.  
Wegrzyn, Joseph  
Weichselbaum, Dr.  
    Paul K.  
Weil, Alfred J.
- Weil, Martin  
Weiner, Charles  
Weiner, George  
Weinstein, Dr. M. L.  
Weinzimmer, Dr. H. R.  
Weir, Paul  
Weisbrod, Benjamin H.  
Weiss, Mrs. Morton  
Weiss, Siegfried  
Weissbrenner, A. W.  
Weisskopf, Dr. Max A.  
Weitzel, Carl J.  
Welch, M. W.  
Welles, Mrs. Donald P.  
Welles, Mrs. Edward  
    Kenneth  
Wells, Arthur H.  
Wells, Miss Cecilia  
Wells, Preston A.  
Wendell, Barrett  
Wendell, Miss  
    Josephine A.  
Wentworth, Edward N.  
Wentworth, John  
Wentworth, Mrs.  
    Sylvia B.  
Wentz, Peter L.  
Wertheimer, Joseph  
Wesby, Vernon L.  
Wesley, C. N.  
West, Thomas H.  
Weymer, Earl M.  
Wheeler, E. Todd  
Wheeler, George A.  
Wheeler, Leslie M.  
Whiston, Jerome P.  
Whitaker, R. B.  
White, Mrs. James C.  
White, Joseph J.  
White, Richard T.  
White, Sanford B.  
Whitfield, George B.  
Whiting, Lawrence H.  
Whitnell, William W.  
Wicks, Russell M.  
Widdicombe, Mrs. R. A.  
Wieland, Mrs.  
    George C.  
Wienhoeber, George V.  
Wies, H. M.  
Wilcox, Robyn  
Wild, Lydon  
Wilder, Harold, Jr.  
Wilker, Mrs. Milton W.  
Wilkey, Fred S.  
Wilkinson, Mrs.  
    George L.  
Wilkinson, John C.  
Willens, Dr. J. Daniel  
Willens, Joseph R.
- Willey, Mrs. Charles B.  
Williams, J. M.  
Williams, Kenneth  
Williams, Rowland L.  
Williams, W. J.  
Williamson, George H.  
Williamson, Mrs. Jack A.  
Willis, Paul, Jr.  
Willis, Thomas H.  
Willner, Benton Jack, Jr.  
Wilms, Hermann P.  
Wilson, D. H.  
Wilson, Edward Foss  
Wilson, John P., Jr.  
Wilson, Mrs. John R.  
Wilson, Morris Karl  
Wilson, William  
Winans, Frank F.  
Windsor, H. H., Jr.  
Winston, James H.  
Winston, Mrs. James H.  
Winter, Irving  
Witter, William M.  
Wolf, Mrs. Albert H.  
Wolf, Walter B.  
Wolfe, Lloyd R.  
Wood, Mrs. Gertrude D.  
Wood, Mrs. Hettie R.  
Wood, Kay  
Wood, Mrs. R. Arthur  
Wood, Robert E.  
Wood, Mrs. Rollin D.  
Wood, William G.  
Woods, Frank H.  
Woods, Weightstill  
Woolman, John S.  
Work, Robert  
Wright, H. C.  
Wrigley, Mrs. Charles W.  
Wronski, Casimir  
    Pulaski  
Wulf, Miss  
    Marilyn Jean  
Wupper, Benjamin F.
- Yager, Mrs. Vincent  
Yondorf, John David  
Yondorf, Milton S., Jr.  
Yorkey, Mrs. Margaret  
Young, B. Botsford  
Young, E. Frank  
Young, George W.
- Zabel, Max W.  
Zabel, Mrs. Max W.  
Zapel, Elmer J.  
Zeisler, Mrs. Ernest B.  
Zerler, Charles F.  
Ziebarth, Charles A.  
Zimmerman, E. W.

## ASSOCIATE MEMBERS (CONTINUED)

Zimmerman, Louis W.	Zinke, Otto A.	Zurcher, Mrs. Suzette M.
Zimmermann, Russell A.	Zitzewitz, Mrs. Elmer K.	Zwiener, Kenneth V.

### DECEASED 1958

Armour, Philip D.	Haldeman, Walter S.	Perkins, Mrs. Herbert F.
	Hollis, Henry L.	Polk, Mrs. Stella F.
Bigler, Mrs. Albert J.	Huggins, Dr. Ben H.	
Bishop, Miss Martha V.		Raber, Franklin
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Ware, Mrs. Thomas M.  
Ware, Willis C.  
Warman, Winfield C.  
Warner, Mason  
Warner, Peter B.  
Warshawsky, Roy I.  
Warton, Frank R.  
Washburn, Dr.  
    Kenneth C.  
Wasson, Mrs. Isabel B.  
Wasson, Theron  
Waterfield, John R.  
Waterman, Mrs. Alex H.  
Watkins, William A. P.  
Watling, John  
Watson, D. R.  
Watt, Andrew J.  
Watt, Howard D.  
Watt, Richard F.  
Watts, Amos H.  
Watts, G. W.  
Waud, Morrison
- Weatherby, George W.  
Weathers, Everett A.  
Weaver, Robert P.  
Webb, Dr. Edward F.  
Weber, James E.  
Weber, John J.  
Weber, Miss Laura M.  
Weber, Warren J.  
Webster, Dr. Augusta  
Webster, Frederick F.  
Webster, N. C.  
Weeks, Harrison S.  
Weeks, Kenneth L.  
Weidert, William C.  
Weigle, Mrs. Maurice  
Weil, Mrs. Carl H.  
Weil, Joseph M.  
Weiner, Aaron B.  
Weiner, Charles  
Weinman, Philip A.  
Weinress, S. J.  
Weinstein, Harold  
Weintroub, Benjamin  
Weisbrod, Maxfield  
Weiss, Louis J.  
Weiss, Norman L.  
Wells, D. P.  
Wells, Mrs. John E.  
Welsh, Vernon M.  
Wendell, F. Lee H.  
Wendorf, Herman  
Wendt, George B.  
Wenner, A. T.  
Wenninger, William C.  
Werner, Miss  
    Theresa M.  
Werrenrath, Reinald, Jr.  
Wessling, Richard  
West, James D.  
West, Richard H.  
West, Thomas F., Jr.  
Westbrook, Charles H.  
Westley, Richard O.  
Wetherell, Warren  
Wetmore, Horace O.  
Weyforth, B. Stuart, Jr.  
Whall, Arthur L.  
Wheary, Warren  
Wheaton, David  
Wheeler, Mrs. Seymour  
Wheeler, W. L.  
Whipple, Charles J.  
Whipple, Gaylord C.  
White, George H.  
White, John G.  
White, Marshall  
White, Mrs. Nelson C.  
White, Dr. Philip C.  
White, Philip M.  
Whitelock, John B.  
Whitney, Jack M., II

ANNUAL MEMBERS (CONTINUED)

- |                          |                        |                        |
|--------------------------|------------------------|------------------------|
| Whitney, Lafeton         | Wirth, J. W.           | Wulf, Miss Lydia       |
| Wible, R. R.             | Wise, John P.          | Wyatt, Harry N.        |
| Wickersham, Mrs. Lucille | Wise, Richard H.       | Wybel, L. E.           |
| Wielgus, John            | Wiseman, William P     | Yager, Richard Sidney  |
| Wier, Grant H.           | Witherell, James       | Yamada, Shigeo         |
| Wiggins, Kenneth M.      | Witte, Lester          | Yarnall, Frank H.      |
| Wilander, Mrs. Connie    | Wittmann, Bernard H.   | Yates, P. L.           |
| Wilby, A. C.             | Wlocholl, Arthur       | Yates, T. L.           |
| Wilder, E. P., Jr.       | Wojnarowsky, Dr.       | Yavitz, Sidney M.      |
| Wiles, Bradford          | Emilia                 | Yellin, Morris         |
| Wiles, Mrs. Russell      | Wojteczko, Stanley     | Yeoman, George W.      |
| Wilhelm, Dr. Emanuel C.  | Wolbach, Murray, Jr.   | Yesnick, Dr. Louis     |
| Wilhite, James A.        | Wolf, Albert M.        | Ylvsaker, L.           |
| Wilkes, Mrs. R. M.       | Wolf, C. W.            | Yntema, Dr. Leonard F. |
| Willard, Nelson W.       | Wolf, Morris E.        | Yohe, C. Lloyd         |
| Willett, Howard L., Jr.  | Wood, A. E.            | Yonkers, Edward H.     |
| Williams, Albert D.      | Wood, Alexander M.     | Young, C. S.           |
| Williams, Albert W.      | Wood, Arthur M.        | Young, Dr. Donald R.   |
| Williams, Bennett        | Wood, C. A.            | Young, George B.       |
| Williams, Harry J.       | Wood, Harold F.        | Young, J. L.           |
| Williams, R. Arthur      | Wood, Kenward T.       | Young, Rollin R.       |
| Williams, Robert J.      | Wood, Philip J.        | Young, William T., Jr. |
| Willis, George H.        | Wood, Truman           | Youngberg, Arthur C.   |
| Willis, Ivan L.          | Wood, William A.       | Youngren, W. W.        |
| Wilson, Allen            | Wood, Mrs. William J.  | Yust, Walter           |
| Wilson, Allen B.         | Woodall, Lloyd         | Zadek, Milton          |
| Wilson,                  | Woods, Dr. A. W.       | Zatz, Sidney R.        |
| Christopher W., Jr.      | Woodson, William T.    | Zeitlin, Samuel E.     |
| Wilson, David M.         | Woolard, Francis C.    | Zelinsky, Mrs. S. F.   |
| Wilson, E. W.            | Woollett, Mrs. Jean    | Zeller, Charles B.     |
| Wilson, Harold E.        | Woolpy, Max            | Zeller, Joseph C.      |
| Wiltsee, Herbert         | Workman, S. L.         | Zimmerman, Austin M.   |
| Wiman, Mrs.              | Works, Nelson C., Jr.  | Zimmerman, Carl        |
| Charles Deere            | Worthington, La Grange | Zimmerman, Dr.         |
| Windchy, Mrs.            | Worthy, James C.       | Harold W.              |
| Frederick O.             | Wray, Franklin C.      | Zimmerman, Otto H.     |
| Winkenweder, V. O.       | Wreath, Robert L.      | Zimmermann, Frank O.   |
| Winkler, Edward          | Wright, C. G.          | Zimmermann, Mrs. P. T. |
| Winsberg, Herbert H.     | Wright, Dr. F. Howell  | Zitzewitz, Arthur F.   |
| Winston, Farwell         | Wright, George L.      | Zitzewitz, Mrs. W. R.  |
| Winter, Mrs. Gibson      | Wright, Miss           | Ziv, Harry M.          |
| Winter, Munroe A.        | Margaret J.            | Zoll, William F.       |
| Winterbotham, John R.    | Wrightson, William F.  |                        |

DECEASED 1958

- |                      |                       |                        |
|----------------------|-----------------------|------------------------|
| Brandt, Fred T.      | Lesch, Mrs. Isabel    | Smolka, Oscar J.       |
| Cook, Wallace L.     | Catharine             | Stange, Howard W.      |
| Cooke, William H.    | Linthicum, J. Francis | Talbot, Mrs. Eugene S. |
| Ellis, Erle M.       | McAuliffe, J. D.      | Venetucci, Pasquale    |
| Galleher, Maurice D. | McGowen, E. J.        | Wadsworth, Charles     |
| Grice, John E.       | Moorman, Charles L.   | Weeks, Arthur G.       |
| Jackson, W. H.       | Mork, P. R.           | Weill, Leonard D.      |
| Krafft, Walter A.    | Osgood, Roy C.        | Wenholz, Walter W.     |
|                      | Senear, Dr. F. E.     | Weymouth, Ralph E.     |
|                      | Sloan, William F.     | Yates, John E.         |

# Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,

*Secretary of State.*

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }  
 COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

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#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

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#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

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#### CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

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#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

# Amended By-Laws

DECEMBER 1958

## ARTICLE I

### MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

## ARTICLE II

### BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

## ARTICLE III

### HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

## ARTICLE IV

### OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

## ARTICLE V

### THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

## ARTICLE VI

### THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

## ARTICLE VII

### THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

## ARTICLE VIII

### COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.



SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

## ARTICLE IX

### NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

## ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.





GOLDEN ANNIVERSARY YEAR  
OF STANLEY FIELD AS  
PRESIDENT OF THE MUSEUM



CHICAGO  
NATURAL  
HISTORY  
MUSEUM









UNIVERSITY OF ILLINOIS-URBANA



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