

CRANBROOK

ARCHIVES

Cranbrook Institute of Science Director's Papers

Papers, 1920s-1990s
36 linear ft.

Acquisition Number:	1990-31
Acquisition:	This collection is a compilation of several record transfers from the Institute of Science.
Access:	Access to the collection is unrestricted, with the exception of restricted material, Box 19.
Copyright:	Copyright to this collection is held by the Cranbrook Educational Community.
Preferred Citation:	Cranbrook Institute of Science Director's Papers, Cranbrook Archives, Bloomfield Hills, Michigan.
Photographs:	See Archives Photo Collection Files.
Index:	See end of finding aid.
Processing:	Inventory, Peggy Appleman. Processing Research series and creation of finding aid, Veronica Bielat Processing bulk of collection and creation of finding aid, Amy James, June 2000.



History

Cranbrook Institute of Science is a nationally recognized natural history and science museum primarily serving Michigan and the Great Lakes region. It seeks to interest and educate people of all ages about nature, science and humankind through its exhibits, education, collection, research, and public programs.¹ The Institute is a division of Cranbrook Educational Community.

The Institute of Science began, as do all Cranbrook institutions, with the vision and generosity of George Gough Booth. In 1926, when Cranbrook School was nearing completion, a plan developed to have astronomy as part of the school curriculum, and to mount a telescope in the school's tower, now part of Hoey Hall. Following much experimentation, this tower was found to be an unfit observatory, as moist air rising in the tower caused condensation and, in the winter, ice-formation. Plans for the astronomy curriculum were put on hold and the lenses were placed in storage. During this period, Mr. and Mrs. George Booth were traveling in the West, where they purchased a collection of 277 mineral specimens for Cranbrook School from a dealer, Pohndorf's, of Denver, Colorado. This was soon to be followed by the purchase of a substantial mineral collection from Levi P. Rowland of Detroit, also for use in the planned Cranbrook School museum. These two purchases formed what would become one of the first and most important collections of the soon-to-be-created Cranbrook Institute of Science.

Recognizing a need, on May 13, 1930, the Trustees of The Cranbrook Foundation authorized the construction of "suitable buildings", and a committee was appointed "to select a name for the proposed institution and organize a board of directors to develop and manage it".² The Institute was to be built on "Sunset Hill", the highest point on Cranbrook property. The name "The Cranbrook Institute of Science" was proposed to the Trustees on June 26, 1930. The first meeting of the Institute's Board of Trustees took place on July 1, 1930, and Henry S. Hulbert was appointed its first Chairman. The institution was a department or an activity of the Foundation, not to be re-constituted as separate and independent under a trust indenture until February 10, 1932.³

The first Institute, as designed by George Booth and built in 1930, was a one-story, wood-shingled, cinder-block building built around a square court. Almost immediately, George Booth had Eliel Saarinen began to prepare a master plan for growth, building and expanding from the current structure. This culminated in the "Grand Plan", submitted in 1932 [not built]. Revised Saarinen plans were approved, and the new Institute was dedicated in May 1938. The Institute of Science experienced several more expansions, including the McMath Planetarium in 1955, the Skillman Wing in 1962, Edison House in 1966, and the Nature Center in 1969. The Cranbrook Nature Sanctuary, near Orchard

¹ Cranbrook Institute of Science Annual Report 1989-1990, p.1.

² Cranbrook Institute of Science: A History of Its Founding and First Twenty-Five Years, *Lee A. White, Robert T. Hatt, et al*, Bulletin 37, Cranbrook Institute of Science, 1959, p.19.

³ *Ibid*, p.19.

Lake, was established on land donated to CIS from Harold Lee Ward. Architect Steven Holl designed the most recent expansion, completed in 1999. Exhibit space was greatly expanded, nearly doubling the size of the Institute.

From the beginning, the staff was selected to encompass the interests of both research and education. Museum exhibits were soon accepted as a principal education tool. The first employee of the Institute was W. Bryant Tyrrell, a naturalist and taxidermist who had previously served on the staff of the Children's Museum [of] Detroit. The staff list in the first *Annual Report* shows nineteen named posts filled by eight employees and four Trustees. Victor H. Cahalane was selected by the Board as Curator of the Institute, beginning on January 1, 1931. In April 1931 his title was changed to Director.⁴ Please see the chronological list of CIS Directors below for a complete list of Mr. Cahalane's successors.

In 1930, CIS began as a small museum providing science education for students at Cranbrook Schools. Throughout the years, the Institute has maintained its commitment to education, research, and outreach. It is now the largest science museum in Michigan, with annual attendance at more than 200,000 visitors.

Scope and Content of Collection

The collection is divided into eight series: **Trustees/Board of Governors, Operations, Exhibits, Education, Research, Renovation and Expansion, Correspondence, and Oversized Materials**. Folders in each series are arranged in alphabetical/chronological order, and each folder's contents are arranged in chronological order.

Possibly the best place to get the overall picture of the historical development and continuing functioning of the Cranbrook Institute of Science is in the **Trustees/Board of Governors** series. Included in this series are a full run of the Annual Reports and Quarterly Meeting Minutes of the CIS Board of Governors. The Board of Governor's committee activity is documented, with the heaviest concentration of records being in the 1960s-1980s. The formation and early years of CIS are described in the History section of this series. The CIS Board of Governors early involvement in the formation of the Detroit Science Center can be found in this series.

The **Operations** series documents the administrative end of CIS life, encompassing personnel, budget/finance, admissions, building maintenance, and security. Fundraisers and annual events like the Maple Sugar Festival are documented in the Community Relations subseries. Properties that were owned or donated to CIS, including the Beresford farm and the Ward property at Orchard Lake (site of the Cranbrook Nature Sanctuary) can be found in the Properties subseries.

Temporary, permanent, and traveling exhibits are documented in the **Exhibits** series. This should not be considered an exhaustive list of exhibits, however, as the majority of

⁴ Ibid, p.27-28.

exhibits in this series are from the 1970s-1990s. For a more complete picture of the range of exhibits over the years, the user should consult the Annual Reports located in the **Trustees/Board of Governors** series.

Throughout its history, CIS has placed an emphasis on educational programming. That commitment to science education is documented in the **Education** series. Within this series, the user can find class brochures from 1933-1996, field trips, summer camps, educational programming collaboration with area schools and universities, and the funding sources for these programs. Users are also encouraged to consult the Annual Reports located in the **Trustees/Board of Governors** series for additional information on CIS educational programming.

Research conducted by CIS directors, staff members, and visiting scholars is documented in the **Research** series. The material is primarily in the format of compiled data and subsequent reports. Involvement in inland lakes and Great Lakes research is documented, as is the research holdings in the CIS Library. Drainage and vegetation studies of Kingswood Lake (called Cranbrook Lake during some studies) are in this series, as are manuscripts and published works of directors and staff members. A large section of algae drawings by Stanley Cain can be found. These pencil drawings were intended for publication, and are a good example of how scientific research from that era was conducted.

Throughout the history of CIS, several building expansions and improvements have taken place. Materials in the **Renovation and Expansion** series describe the preparation and planning that accompanied these improvements. Most of the materials in this series cover the major expansion project that spanned the 1980s-1990s. Additional documentation of the building of Edison House, the Woodward entrance, and the Arrival Feature can also be found within the series. See the **Oversized Materials** series for additional renovation and expansion information.

Materials in the **Correspondence** series span the 1920s through the 1990s, pre-CIS through present day. Important correspondents in this series include: all CIS Directors, George G. Booth, Henry S. Booth, Robert McMath, Henry Hulbert, Gustavus Pope, members of the Beresford family, Stanley Cain, Lee Dice, Cecil Billington, and Arthur Wittliff. Materials are arranged alphabetically and chronologically. The relationship between CIS and the other Cranbrook institutions can be found in this series.

The **Oversized Materials** series contains a facility program report compiled by Hellmuth, Obata & Kassabaum (HOK) in preparation for the 1980s-1990s CIS expansion project.

Related Collections

- Robert T. Hatt collection, #1999-14.
- CIS Publications collection (*CIS Bulletin* and *CIS News Letter/Science Scope*)
- Cranbrook Archives Photograph Files

CIS Directors in Chronological Order

Victor Cahalane	1930-1934
Lee Dice (acting)	1934-1935
Robert Hatt	1935-1967
Warren Wittry	1967-1972
Robert Bowen (acting)	1972-1973
Robert Bowen	1973-1980
Kathleen Roth (acting)	1981-1982
Dennis Wint	1982-1986
Kathleen Roth (acting)	1986-1987
Robert West	1987-1991
Ellen Jacobowitz (acting)	1992-1993
Daniel Appleman	1993-1998
Elaine Heumann Gurian (acting)	1998-1999
Talbert Spence	1999-

Box Number--Description

Series I CIS TRUSTEES/BOARD OF GOVERNORS

Box 1

1. Annual Report, 1930-1931
2. Annual Report, 1931-1932
3. Annual Report, 1932-1933
4. Annual Report, 1933-1934
5. Annual Report, 1934-1935
6. Annual Report, 1935-1936
7. Annual Report, 1936-1937
8. Annual Report, 1937-1938
9. Annual Report, 1938-1939
10. Annual Report, 1939-1940
11. Annual Report, 1940-1941
12. Annual Report, 1941-1942
13. Annual Report, 1942-1943
14. Annual Report, 1943-1944
15. Annual Report, 1944-1945
16. Annual Report, 1945-1946
17. Annual Report, 1946-1947
18. Annual Report, 1947-1948
19. Annual Report, 1948-1949
20. Annual Report, 1949-1950
21. Annual Report, 1950-1951
22. Annual Report, 1951-1952
23. Annual Report, 1952-1953
24. Annual Report, 1953-1954
25. Annual Report, 1954-1955
26. Annual Report, 1955-1956
27. Annual Report, 1956-1957
28. Annual Report, 1957-1958
29. Annual Report, 1958-1959
30. Annual Report, 1959-1960
31. Annual Report, 1960-1961
32. Annual Report, 1961-1962
33. Annual Report, 1962-1963
34. Annual Report, 1963-1964
35. Annual Report, 1964-1965
36. Annual Report, 1965-1966
37. Annual Report, 1966-1967
38. Annual Report, 1967-1971
39. Annual Report, 1971-1972
40. Annual Report, 1972-1973
41. Annual Report, 1973-1974

42. Annual Report, 1974-1975
43. Annual Report, 1975-1976
44. Annual Report, 1976-1977
45. Annual Report, 1977-1978
46. Annual Report, 1978-1979
47. Annual Report, 1979-1980
48. Annual Report, 1980-1981

Box 2

1. Annual Report, 1981-1982
2. Annual Report, 1982-1983
3. Annual Report, 1983-1984
4. Annual Report, 1984-1985
5. Annual Report, 1985-1986
6. Annual Report, 1986-1987
7. Annual Report, 1987-1988
8. Annual Report, 1988-1989
9. Annual Report, 1989-1990

Note: CIS Annual Reports discontinued after 1989-1990.

10. Articles of Incorporation, 1956
11. Committees (list of and membership), 1951-1985 incomplete
12. Committees—Annual Giving (Ad Hoc), 1984-1986
13. Committees—Beresford Property (Ad Hoc), 1984-1985
14. Committees—Building, 1947-1951
15. Committees—Capital Campaign (Ad Hoc), 1986-1989
16. Committees—Community Relations, n.d., 1967-1970
17. Committees—Community Relations, 1971-1975
18. Committees—Community Relations, 1977-1986
19. Committees—Community Relations, 1989-1991
20. Committees—Cranbrook Nature Sanctuary (Ad Hoc), 1988
21. Committees—Development (Ad Hoc), 1976, 1981-1991
22. Committees—Educational Programs Advisory (Ad Hoc), 1985-1987
23. Committees—Education, n.d., 1963-1973
24. Committees—Education, 1974-1979
25. Committees—Education, 1980-1989, 1995
26. Committees—Executive, 1963-1972
27. Committees—Executive, 1973-1980
28. Committees—Executive, 1981-1991
29. Committees—Finance, 1950-1951, 1967-1993, 1995
30. Committees—Governance (Ad Hoc), 1992
31. Committees—Mineralogical, 1950-1969
32. Committees—New Wing/Renovation & Expansion (Ad Hoc), 1980-1984
33. Committees—New Wing/Renovation & Expansion (Ad Hoc), 1985-1986

34. Committees—New Wing/Renovation & Expansion (Ad Hoc), 1987-1989
35. Committees—New Wing/Renovation & Expansion (Ad Hoc), 1990-1991
36. Committees—Nominating, 1963, 1970-1980
37. Committees—Operating Procedures (Ad Hoc), 1972
38. Committees—Operations (Forward) Planning, 1965-1970
39. Committees—Planning, Promotion & Public Relations, 1970
40. Committees—Publications, 1951
41. Committees—Research, 1950-1966
42. Committees—Research, 1967-1980
43. Committees—Research, 1981-1991
44. Committees—Science Advisory, 1989
45. Committees—Ways and Means (Ad Hoc), 1970
46. Cresap Report (and reaction to), 1965-1966
47. Detroit Science Center, 1969-1983
48. Donor Report, 1991-1992
49. History (of CIS), 1930-1980
50. History (of CIS), 1933, 1935, 1960
51. History (of CIS)--*A History of the Cranbrook Institute of Science* by Cecil Billington, May 1937
52. History (of CIS)--*In Behalf of the Cranbrook Institute of Science* by Cecil Billington, 1949 (2 copies)
53. History (of CIS)--Land Description, 1931, 1933
54. History (of CIS)—Mineral Collection, 1930s, 1990s
55. History (of CIS)—Trust Indentures, Tax Exempt Status, Bylaws, 1932, 1934-1968, 1974-1985

Box 3

1. Quarterly Meeting Minutes, 1937-1940
2. Quarterly Meeting Minutes, 1942-1942
3. Quarterly Meeting Minutes, 1943-1944
4. Quarterly Meeting Minutes, 1945-1946
5. Quarterly Meeting Minutes, 1947
6. Quarterly Meeting Minutes, 1948
7. Quarterly Meeting Minutes, 1949
8. Quarterly Meeting Minutes, 1950
9. Quarterly Meeting Minutes, 1951
10. Quarterly Meeting Minutes, 1952
11. Quarterly Meeting Minutes, 1953
12. Quarterly Meeting Minutes, 1954
13. Quarterly Meeting Minutes, 1955
14. Quarterly Meeting Minutes, 1956
15. Quarterly Meeting Minutes, 1957
16. Quarterly Meeting Minutes, 1958
17. Quarterly Meeting Minutes, 1959

18. Quarterly Meeting Minutes, 1960
19. Quarterly Meeting Minutes, 1961
20. Quarterly Meeting Minutes, 1962
21. Quarterly Meeting Minutes, 1963
22. Quarterly Meeting Minutes, 1964
23. Quarterly Meeting Minutes, 1965
24. Quarterly Meeting Minutes, 1966
25. Quarterly Meeting Minutes, 1967
26. Quarterly Meeting Minutes, 1968
27. Quarterly Meeting Minutes, 1969
28. Quarterly Meeting Minutes, 1970
29. Quarterly Meeting Minutes, 1971
30. Quarterly Meeting Minutes, 1972
31. Quarterly Meeting Minutes, 1973
32. Quarterly Meeting Minutes, 1974
33. Quarterly Meeting Minutes, 1975
34. Quarterly Meeting Minutes, 1976

Box 4

1. Quarterly Meeting Minutes, 1977
2. Quarterly Meeting Minutes, 1978
3. Quarterly Meeting Minutes, 1979
4. Quarterly Meeting Minutes, 1980
5. Quarterly Meeting Minutes, 1981
6. Quarterly Meeting Minutes, March 1982
7. Quarterly Meeting Minutes, Sep, Dec 1984
8. Quarterly Meeting Minutes, Mar, Jun, Jul 1985
9. Quarterly Meeting Minutes, Sep, Dec 1985
10. Quarterly Meeting Minutes, Mar, Jun 1986
11. Quarterly Meeting Minutes, Sep, Dec 1986
12. Quarterly Meeting Minutes, Mar, Jun 1987
13. Quarterly Meeting Minutes, Sep, Dec 1987
14. Quarterly Meeting Minutes, Mar, Jun 1988
15. Quarterly Meeting Minutes, Sep, Dec 1988
16. Quarterly Meeting Minutes, Mar, Jun 1989
17. Quarterly Meeting Minutes, Sep, Dec 1989
18. Quarterly Meeting Minutes, Apr, Jun, Oct 1990
19. Quarterly Meeting Minutes, Jan, Apr 1991
20. Quarterly Meeting Minutes, Jun, Oct 1991
21. Quarterly Meeting Minutes, Jan, Apr 1992
22. Quarterly Meeting Minutes, Jun, Oct 1992
23. Quarterly Meeting Minutes, Jan, Apr 1993
24. Quarterly Meeting Minutes, Jun, Oct 1993
25. Quarterly Meeting Minutes, Jan, Apr 1994

Box 5

1. Quarterly Meeting Minutes, Oct 1995
2. Quarterly Meeting Minutes, Jan 1996
3. Quarterly Meeting Minutes, Apr, Oct 1996
4. Quarterly Meeting Minutes, Jan, Apr, Oct 1997
5. Quarterly Meeting Minutes, Apr, Jun, Oct 1998
6. Quarterly Meeting Minutes, Jan, Apr, Jun 1999
7. Quarterly Meeting Minutes, Jan, Apr 2000
8. Quarterly Meeting Minutes, Jun 2000
9. Trustee Directories, 1930s-1990s incomplete

Series II OPERATIONS

Box 6

Administration subseries

1. *CIS Summary of Activities, Programs, and Budgets 1972-1973*
2. Code of Ethics, 1977-1985
3. Environmental Task Force, 1991-1991
4. Future Planning, 1939, 1981
5. Gift Shop, 1595-1960, 1996
6. Goals and Objectives, 1978-1980
7. Goals and Objectives, 1986-1988
8. Goals and Objectives, 1989-1992
9. Goals and Objectives, 1992-1994
10. Goals and Objectives, 1995-1996
11. Logo (CIS), 1982-1993
12. Mission Statement, 1980s-1990s incomplete
13. Mission Statement—self study, 1992
14. Report—*Cranbrook Institute of Science* by Michael Guy, 1972

Admissions subseries

15. Attendance Figures, 1969-1985
16. Collaborative Efforts—with CEC, 1987
17. Correspondence and Memos, 1968-1993
18. Visitor Surveys, 1953-1963, 1985

Awards subseries

19. Mary Soper Pope Award--General, 1964
20. Mary Soper Pope Award--Revival, 1989
21. Mary Soper Pope Award—Frans Verdoorn, 1946
22. Mary Soper Pope Award—Charles Deam, 1947
23. Mary Soper Pope Award—William Vogt, 1948
24. Mary Soper Pope Award—Jens Christian Clausen, David Daniels Keck, William McKinley Hiesey, 1949

25. Mary Soper Pope Award—Martin Cardenas, 1951
26. Mary Soper Pope Award—Emma Lucy Braun, 1952
27. Mary Soper Pope Award—Irving Widmer Bailey, 1954
28. Mary Soper Pope Award—Kenneth Neatby, 1959
29. Mary Soper Pope Award—Edmund H. Fulling, 1962
30. Mary Soper Pope Award—Edgar T. Wheery, 1964
31. Mary Soper Pope Award—Hally Jolivette Sax and Karl Sax, 1966
32. Mary Soper Pope Award—Stanley A. Cain, 1969
33. Mary Soper Pope Award—William Campbell Steere, 1970
34. President's Award for Excellence—Kathleen Roth, 1990

Budget/Finance subseries

35. Appraisal—Manufacturers' Appraisal Company, 1952
36. Appraisal—CIS Art Collection, 1978
37. Appraisal—Upkeep Report, 1955
38. Appraisal—Upkeep Report, 1956
39. Appraisal—Upkeep Report, 1957
40. Appraisal—Upkeep Report, 1958
41. Appraisal—Upkeep Report, 1959
42. Budgetary Distribution Account Numbers, 1960s, 1973-1974
43. Financial Statements, 1930
44. Financial Statements, 1931-1932
45. Financial Statements, 1932-1933
46. Financial Statements, 1933-1934
47. Financial Statements, 1934-1935
48. Financial Statements, 1935-1936
49. Financial Statements, 1936-1937
50. Financial Statements, 1937-1938
51. Financial Statements, 1938-1939
52. Financial Statements, 1939-1940
53. Financial Statements, 1940-1941
54. Financial Statements, 1941-1942
55. Financial Statements, 1944
56. Financial Statements, 1945-1946
57. Financial Statements—Condensed, 1939-1946
58. Financial Statements, 1946-1947
59. Financial Statements, 1947-1948
60. Financial Statements, 1948-1949
61. Financial Statements, 1952-1953
62. Financial Statements, 1953-1954
63. Financial Statements, 1956-1957
64. Financial Statements, 1957-1958
65. Financial Statements, 1958-1959
66. Financial Statements, 1960
67. Financial Statements, 1961-1962
68. Financial Statements, 1963-1964

69. Financial Statements, 1964-1965
70. Financial Statements, 1965-1966
71. Financial Statements, 1966-1967
72. Financial Statements, 1967-1968
73. Financial Statements, 1968-1969
74. Financial Statements, 1969-1970
75. Financial Statements, 1971-1972
76. First Level Appropriation, 1979, 1985
77. First Level Appropriation—*Report on the First Level Appropriation*, July 13, 1985
78. *Five year Financial and Programmatic Projections*, August 1, 1985
79. Insurance, 1937, 1951-1979
80. Insurance, 1980-1993
81. National Bank of Detroit—Trust Accounts, 1957-1960

Box 7

Community Relations subseries

1. Clubs—Michigan Botanical Club, 1948-1952
2. Clubs—Michigan Wildflower Association, 1941-1942
3. Clubs—Oakland Audubon Society, 1973
4. Clubs—Sigma Xi, 1975-1990
5. Events, 1982-1984
6. Events—Autumn Fest, 1984
7. Events—CIS 10th Anniversary Celebration, 1940
8. Events—Danish Dinner, 1961
9. Events—Fun Run, 1982-1991
10. Events—Maple Syrup Festival, 1978-1989
11. Events—Robert R. McMath Planetarium Dedication, 1955
12. Events—Robert T. Hatt's Retirement Dinner, May 5, 1967
13. Events—Smithsonian at Cranbrook, 1976-1977
14. Events—Step Out for Science, 1992
15. Fundraising, 1962-1982
16. Fundraising, 1988-1996
17. Fundraising—Brochures, misc., n.d., 1960s-1990s
18. Fundraising—Development Report, 1984-1985
19. Fundraising—Lasers and Ice, 1988-1989
20. Fundraising—Lighter Than Air, 1977, 1979
21. Fundraising—Orchids and Ice, 1990-1991
22. Fundraising—Rainbows and Ice, 1992-1993
23. Fundraising—Silver and Ice, 1988
24. Fundraising—Stars and Ice, 1991-1992
25. Fundraising—Treasures and Ice, 1989-1990
26. Fundraising—Winterscape, 1983-1984
27. Membership, 1938-1959
28. Membership, 1965

29. Membership, 1993-1996
30. Parents Advisory Council, 1994-1996

Maintenance subseries

31. Air Conditioning—William E. Kapp, architect, 1957-1962
32. Air Conditioning—Skillman Wing—contracts & specs, 1961
33. Air Conditioning—Norman S. Suter & Co., 1961-1965, 1968
34. Boiler, 1978
35. Building Footage, 1955, 1961, 1965
36. Construction—Correspondence, 1958-1962
37. Construction—Skillman Wing, 1961-1962
38. Construction—Skillman Wing, 1963-1964
39. Equipment—Computers, 1987
40. Equipment—Expenditures and Forecasts, 1936-1937
41. Equipment—Inventory, 1967
42. Equipment—Lease from Space/Defense Corp., 1962-1964, 1968-1971
43. Floor Plans, undated
44. General, 1974-1983
45. General, 1984-1992
46. Handicap Access, 1983-1992
47. Health Hazards, 1964-1965
48. HVAC, 1967-1978
49. Nagey Courtyard—Correspondence, 1978-1979
50. Nagey Courtyard—Drawings, Contracts, Bids, 1978
51. Painting, 1979-1980
52. Parking/Traffic, 1983-1984
53. Parking/Traffic, 1985
54. Parking/Traffic, 1987-1990
55. Reflecting Pool—“Milles Pond” fish, 1979-1980
56. Roofing, 1976-1980
57. Security, 1972, 1977-1992
58. Security—File removed, restricted material
59. Security—File removed, restricted material
60. Security—Japanese Art Theft, 1984-1985
61. Security—*A Review of Security Problems at Cranbrook Institute of Science*, 12-14-1968
62. Storage Space Proposal, 1987
63. TV Antenna/Satellite Proposal, 1976

Box 8

1. Ultraviolet Light—Effects on Museum, 1963-1964
2. Utilities, 1963
3. Utilities, 1973-1975
4. Vehicles—Correspondence, 1985-1986

5. Vehicles—Purchase and Sales, 1972-1986

Personnel subseries

6. File removed, restricted material
7. Department Head Meeting Minutes, Feb 1984-Jun 1984
8. Department Head Meeting Minutes, Jul 1984-Dec 1984
9. Department Head Meeting Minutes, Jan 1985-Jun 1985
10. Department Head Meeting Minutes, Jul 1985-Dec 1985
11. Department Head Meeting Minutes, 1986
12. Department Head Retreats, 1982
13. Department Head Retreats, 1985
14. File removed from collection. Keep number as place-holder.
15. Education Committee Meeting Minutes, 1996-1997
16. Ethics and Conduct Code, 20 May 1985
17. Executive Committee Meeting Minutes, 1996-1997
18. Honorary Appointments, 1985
19. Job Descriptions, 1973
20. Library Committee Meeting Minutes, 1996
21. New Institute Committee Meeting Minutes, 1996-1997
22. Organizational Charts, 1960s-1990s various years
23. Staff Lists, 1963, 1972, 1975, 1995
24. Staff Meeting Minutes, 1981-1982, 1996
25. Volunteers/Docents, n.d., 1979-1991
26. Volunteers/Docents—Newsletter, 1979-1992 sporadic

Properties subseries

27. *contents relocated to 15:55A*
28. Apple Island, 1965-1991
29. Beresford property (411 Lone Pine Rd), 1985-1989, 1995
30. Edwards property (Oxford,MI), 1973-1974
31. Grace H. Flood Nature Chalet, 1974-1975
32. Grace H. Flood Nature Chalet, 1976
33. Flood Estate Trust, 1982-1983
34. Beresford Farm (Metamora, MI), 1981-1983, 1988-1989
35. Beresford Farm—Appraisal, 1989
36. Beresford Farm—Hebert, James, 1983-1986
37. Beresford Farm—Spanger, James and Patricia, 1982-1989
38. Schjolin Property (127 Stoneybrook Lane), 1982-1997
39. Ward Property (Orchard Lake), 1969-1972
40. Ward Property (Orchard Lake), 1976-1985
41. Ward Property (Orchard Lake), 1988-1990
42. Ward Property (Orchard Lake), 1991-1992
43. Ward Property (Orchard Lake)—Outside Proposals, 1988-1990

Publications subseries

44. Catalogs and Publication Lists, various dates

45. History of Publications Dept., 1952, 1982
46. Instructions to Authors, 1938-1939
47. Meeting Minutes, 1984-1993 (not complete)
48. Quarterly Reports, 1983-1988

Series III EXHIBITS

Box 9

1. Academy of Art (loans from), 1955-1956, 1962-1966
2. AIDS, 1993-1994
3. All Things Beautiful: The Japanese Tradition, 1984
4. Ancient Egypt and the Tomb of Tutankahamen, 1973
5. Animals as Architects, 1995
6. Audubon Prints, 1982-1993
7. Basketry of the North American Indians, 1941
8. Bicentennial Exhibits, 1973-1976
9. Brochures & Announcements, undated, various years
10. Changing Earth, 1988-1990
11. Collection Connection, 1989-1990
12. Dinosaurs! Dinosaurs!, 1987
13. Discovery Room, 1983-1985
14. Earth Quest, 1995-1996
15. Earth Resources Technology Satellite (ERTS), 1974
16. Earth Science (modernization of existing exhibit), 1977
17. Earth's Treasures, 1988-1990
18. Eskimo Exhibit, 1941
19. Exhibit Planning—Budget, 1988-1989
20. Exhibit Planning—Collection Planning, 1954-1991
21. Exhibit Planning—Exhibit Development Team (EDT), 1987-1988
22. Exhibit Planning—Exhibit Development Team Extension Committee (EDTEC), 1988
23. Exhibit Planning—Exhibit Development Team Meeting Minutes, 1987
24. Exhibit Planning—Exhibit Development Team Meeting Minutes, 1988
25. Exhibit Planning—Exhibit Evaluation, 1989-1990
26. Exhibit Planning—Existing Exhibit Analysis, 1987
27. Exhibit Planning—Exploratorium, 1980
28. Exhibit Planning—Focus Groups, 1989-1990
29. Exhibit Planning—Gerard Hilferty & Associates (GHA), 1988-1992
30. Exhibit Planning—Goals and Objectives, 1987, 1989
31. Exhibit Planning—Guidelines, 1989
32. Exhibit Planning—Master Plan, 1988-1989
33. Exhibit Planning—Schedule, 1993-1994
34. Exhibit Planning—Schematics Design Phase, 1989-1990
35. Exhibit Planning—Work Groups, c. 1990

36. Exhibit Planning and Preservation, n.d., 1930-1967
37. Exploring the Universe, 1988-1990
38. Foucault Pendulum, n.d., 1983
39. *Guide to the Exhibits*, 1st ed., 1940
40. *Guide to the Exhibits*, 2nd ed., 1941
41. *Guide to the Exhibits*, 3rd ed., 1945
42. *Guide to the Exhibits*, 4th ed., 1947
43. *Guide to the Exhibits*, 5th ed., 1951
44. *Guide to the Exhibits*, 6th ed., 1956
45. *Guide to the Exhibits*, 7th ed., 1960
46. Hall of Light and Color, 1979-1980
47. Halley's Comet, 1985-1986
48. Hardware of Mathematics, 1962-1964
49. Human Experience, 1988-1990
50. Inua: Spirit World of the Bering Sea Eskimo, 1984-1985
51. It's All in Your Head, 1995
52. Lasera, 1979-1982
53. Lasera, 1983-1992
54. Living World, 1988-1990
55. Masks: Occult and Utilitarian, 1940
56. Masters of the Night, 1993
57. Mathematics Emporium, 1965-1980
58. Michigan Sesquicentennial, 1986
59. Mineral Hall, 1974-1975, 1993
60. Nature Orientation Center (Dedication), 1968
61. Observatory, 1970-1985
- 61A. Out of This World, n.d.
62. Physics Hall, n.d., 1962-1984
63. Physics Hall—Cohen Study, 1979
64. Physics Hall—Exhibit Surveys, 1974, 1984
65. *A Pictorial Book of Exhibits*, c. 1960s
66. Planetarium, n.d., 1955-1988, 1998
67. San Diego Museum of Natural History, 1987
68. Science Theater, 1989-1990
69. Shape of Mathematics, 1964-1966
70. Shell Collection, 1957, 1988-1991
71. Solar Energy, 1975
72. Speakeasy: Communicating in the '80s, 1982
73. Spiders!, 1994-1995

Box 10

1. Spiders! script (from the National Museum of Natural History), 1994
2. Sport, 1993-1994
3. Stories in Hair and Fur, 1949
4. Structures, 1993
5. Surface of the Sun, n.d.

6. Traveling Exhibits, 1941, 1950s-1976
7. 20th Century Dinosaurs, 1982
8. Up With Science, n.d.
9. Wankel Engine, 1973
10. Water Wonders, 1995
11. Waterworks, 1988-1990
12. Weather, 1993-1994
13. Whales, 1983
- 13A. What in the World....?, n.d.
14. What Makes Music?, 1995-1996

Series IV EDUCATION

15. Brochures and Class Listings, n.d., 1933-1979
16. Brochures and Class Listings, 1980-1996
17. Brochures and Class Listings *At the Museum*, 1980s
18. Computers, 1979-1982
19. Craft Books, 1927, 1944
20. Cranbrook on the Go Program, 1982, c.1990s
21. Department of Education Program Review, 1987
22. Distance Learning, 1993
23. Earth Day, 1989-1990
24. Edu-Mentor Program, 1991-1992
25. Education Staff Correspondence, 1970s-1980s
26. Elementary School Programs, n.d., 1970-1984
27. Experimental Projects for Women and Girls Program, 1994
28. Fee Schedules, 1982
29. Field Trips, n.d., 1970-1985
30. Field Trips, 1989-1992
31. Funding—Edison Foundation, 1973-1974
32. Funding—General Electric Foundation/ASTC, 1985-1986
33. Funding—Howard Hughes Medical Institute, 1992
34. Funding—Kellogg Foundation, 1981-1987
35. Funding—Kellogg Foundation, 1988-1990
36. Funding—Knight Foundation, 1983-1989
37. Funding—Lyon Foundation, 1987-1990
38. Funding—Miscellaneous, 1980s-1990s
39. Funding—Skillman Foundation, 1984-1989
40. Funding—Skillman Foundation, 1989-1992
41. Funding—Skillman Foundation, 1995-1996
42. Games and Quizzes, c.1950s, 1952
43. Goals and Objectives, 1987
44. Hearing and Visually Impaired Program, 1984, 1989
45. High School Interns, 1987
46. Horizons Upward Bound Science and Math Center, 1992, 1994
47. Lake Superior State College, 1987-1988

48. Lawrence Technological University, 1996
49. Lectures—Searching for Dinosaur DNA, 1993
50. Michigan Education Seminars, 1984
51. Michigan Science Museum Collaborative, 1983-1986
52. Michigan Science Museum Collaborative, 1987
53. Michigan Science Museum Collaborative, 1988
54. Michigan Science Museum Collaborative, 1989
55. Michigan Science Museum Collaborative, 1990-1992
56. Michigan State University, 1983-1987, 1991
57. Michigan Wildlife Art Awards, 1975, 1983, 1987, 1988
58. National Science and Technology Week, 1981
59. Nature Center, n.d., 1972-1987
60. Newsletters, 1994
61. Oakland Community College, n.d.
62. Oakland County, MI Public Schools, 1983-1991
63. Oakland University, 1973-1974
64. Photography Class, 1984
65. Physics Classes, n.d.
66. Physics Olympics, 1982
67. Pontiac Area Urban League, 1988-1992
68. Pontiac, MI Public School System, 1985
69. Preschool Programs, 1988
70. Rediscovering Our Great Lakes Program, 1975-1976
71. School Visits, n.d., various 1950s-1980s
72. Science 4 Program, c.1984
73. Science Club, n.d., 1969-1973, 1980
74. Science Explorer Camp, 1980s
75. Science Hands-On!, c.mid-1990s
76. Science is Everywhere Program, 1996
77. Science Museum (television show), 1964
78. Senior Citizens, 1988-1991
- 78A. Starlab, 1987
79. Summer Science Camp, 1979-1981
80. Sunday Brunch Lecture Series, 1994-1996
81. Teacher Training Proposal, 1973
82. Uni-Science Program, 1994-1995
83. University Collaborative, 1990-1991
84. University of Michigan, 1986-1988
85. Up With Science Program, 1982
86. Your Heritage House, n.d., 1974-1976
87. Youth Alive Program, 1995-1997

Series V

RESEARCH

Box 11

Arboretum Development Subseries

1. Cranbrook Landscape Survey/Preservation, 1968-1972
2. Cranbrook Gardens/Arboretum Development Planning Conference, Transcripts, 1981
3. Cranbrook Gardens/Arboretum Development Planning Conference, 1981-1983
4. Cranbrook Living Arboretum (Beresford Center) Proposal, 1982

Divisions Subseries

5. Research Summaries, 1930-1980
6. Anthropology, Indian Earthwork Survey, 1984-1987
7. Anthropology, Research Associates, Zurel, Richard, 1984-1992
8. Anthropology, Research Reports, 1962-1984
9. Botany, Bruce Peninsula (Ontario), 1949
10. Botany, Cain, Stanley, Published Works, 1938-1949
11. Botany, Cain, Stanley, Macatawa Dunes Survey, 1948
12. Botany, Cain, Stanley, Papers, *An Ecologist's View of the Population-Natural Resources Problem*, 1949
13. Botany, Cain, Stanley, Papers, *Natural Resources and Population Pressures*, 1949
14. Botany, Leelanau County Flora, 1947-1987
15. Botany, Origination Papers, 1939
16. Botany, Research Associates, Bailey, Karl, 1937-1975
17. Botany, Research Associates, Churchill, John, 1973
18. Botany, Research Associates, Thompson, Paul, 1982-1991
19. Botany, Research Reports, 1959-1990
20. Botany, Thompson, Paul 1959-1994
21. Botany, Thompson, Paul, Beech Maple Plot Survey, n.d.
22. Botany, Wells, James, Fly Ash Project (Detroit Edison), 1985-1986
23. Botany, Wells, James, Michigan Islands Botanical Research, 1987
24. Botany, Wells, James, Michigan Sand Dunes, 1982-1985
25. Botany, Wells, James, NIH Proposal, Biosystematic Studies and Protein Enrichment Investigations in *Polymnia sonchifolia* (Compositae), 1969
26. Botany, Wells, James, Schjolin Plant Conservation Garden, 1985
27. Director, Research Reports, 1961
28. Director, West, Robert, Kathmandu (Nepal), 1987
29. Director, West, Robert, Kathmandu (Nepal), 1988
30. Director, West, Robert, Published Works, 1970-1974
31. Director, West, Robert, Published Works, 1976
32. Director, West, Robert, Published Works, 1977-1978
33. Director, West, Robert, Published Works, 1979
34. Director, West, Robert, Published Works, 1980
35. Director, West, Robert, Published Works, 1981
36. Director, West, Robert, Published Works, 1983
37. Director, West, Robert, Published Works, 1985-1986

38. Director, West, Robert, Published Works, Chitarwata Series, Correspondence, 1987
39. Director, West, Robert, Published Works, Chitarwata Series, Correspondence, 1988
40. Director, West, Robert, Published Works, Chitarwata Series, Correspondence, 1989
41. Director, West, Robert, Published Works, Chitarwata Series, Correspondence, 1990
42. Director, West, Robert, Published Works, Chitarwata Series, Correspondence, 1991
43. Director, West, Robert, Published Works, Chitarwata Series, 1991
44. Director, West, Robert, Published Works, Conference Proceedings, Abstracts and Book Reviews, 1970-1991
45. Director, West, Robert, Published Works, *Endangered and Orphaned Natural History and Anthropology Collections in the United States and Canada*, Correspondence, 1987
46. Director, West, Robert, Published Works, *Endangered and Orphaned Natural History and Anthropology Collections in the United States and Canada*, Correspondence, 1988
47. Director, West, Robert, Published Works, *Endangered and Orphaned Natural History and Anthropology Collections in the United States and Canada*, 1988
48. Director, West, Robert, Published Works, *Miocene Vertebrates from the Siwalik Group, Western Nepal*, Correspondence, 1989-1991
49. Director, West, Robert, Published Works, *Miocene Vertebrates from the Siwalik Group, Western Nepal*, Correspondence, 1991
50. Director, West, Robert, Published Works, *Paramys Wyomingensis, a Small Rodent from the Middle Eocene of Wyoming*, 1969
51. Director, West, Robert, Published Works, *Vertebrate Paleontology of the Green River Basin, Wyoming, 1840-1910*, Correspondence, 1988-1990
52. Director, West, Robert, Published Works, *Vertebrate Paleontology of the Green River Basin, Wyoming, 1840-1910*, 1990
53. Director, West, Robert, Published Works, *State Regulation of Geological, Paleontological, and Archaeological Collecting*, Correspondence, 1989
54. Director, West, Robert, Published Works, *State Regulation of Geological, Paleontological, and Archaeological Collecting*, 1989
55. Director, West, Robert, Published Works, *State Regulation of Geological, Paleontological, and Archaeological Collecting*, Correspondence, 1990
56. Director, West, Robert, Published Works, *State Regulation of Geological, Paleontological, and Archaeological Collecting*, Correspondence, 1991

57. Director, West, Robert, Published Works, *State Regulation of Geological, Paleontological, and Archaeological Collecting* (Updated), 1991
58. Director, West, Robert, Society or Vertebrate Paleontology, 47th Annual Meeting, 1987
59. Director, West, Robert, Society or Vertebrate Paleontology, Government Liaison Committee, 1987-1989
60. Director, West, Robert, Society or Vertebrate Paleontology, Government Liaison Committee, 1990-1991
61. Director, West, Robert, Society or Vertebrate Paleontology, Newsletter Report CIS, 1987-1991
62. Geology, Mineralogy and Paleontology, Research Associates, Shoshani, Jaeskel (Hezy), 1989-1992
63. Geology, Mineralogy and Paleontology, Shelton Property Excavation, 1983
64. Geology, Mineralogy and Paleontology, Shelton Property Excavation, 1984
65. Geology, Mineralogy and Paleontology, Shelton Property Excavation, 1984-1985
66. Geology, Mineralogy and Paleontology, Shelton Property Excavation, 1986
67. Geology, Mineralogy and Paleontology, Shelton Property Excavation, 1987-1989
68. Geology, Mineralogy and Paleontology, Summit Place Mall Excavation, 1989
69. Zoology, Bird Banding, Permit, 1955-1959
70. Zoology, Bird Banding, Research Reports, 1959-1982
71. Zoology, Dice, Lee, Public Health Service Research Grant (M2050/M1650), Heredity of Behavior Type in *Peromyscus*, 1956-1964
72. Zoology, Harding, James, Wood Turtle, 1979-1987
73. Zoology, Newcombe, Curtis, Crab Studies, 1949
74. Zoology, Research Associates, Dice, Lee, Published Works, *Relation of Fertility to Religious Affiliation and to Church Attendance in Ann Arbor, Michigan 1951-1954*, 1965
75. Zoology, Research Associates, Fowler, James, 1962
76. Zoology, Research Reports, 1968-1980

Box 12

Lake Research Subseries

Inland Lakes Sub-subseries

1. Bacterial Contamination Research Proposal (C-5148), 1973
2. Child Lake, Plant Population Data, 1948
3. Echo Lake, Plant Population Data, 1948
4. ERTS, Eutrophication of Inland Lakes, Proposal, 1971

5. ERTS, Eutrophication of Inland Lakes, Correspondence, 1971-1973
6. ERTS, Eutrophication of Inland Lakes, Mapping Report, 1974
7. ERTS, Proposal, Ecological Impact Study, 1972
8. Heart Lake, Pollen Analytic Study, 1948
9. Huron Mountain Lakes, 1973
10. Island, Lower Long and Forest Lakes, Fisheries Survey, 1957
11. Island, Lower Long and Forest Lakes, Pollution Study, 1967
12. Island, Lower Long and Forest Lakes, Pollution Study, 1968
13. Island, Lower Long and Forest Lakes, Pollution Study, 1969
14. Island, Lower Long and Forest Lakes, Pollution Study, 1970-1971
15. Island, Lower Long and Forest Lakes, Leptopel Proposal to Federal Water Quality Administration, 1970
16. Island, Lower Long and Forest Lakes, Progress Reports, 1970-1972
17. Island, Lower Long and Forest Lakes, Water Quality Final Report I, 1972
18. Island, Lower Long and Forest Lakes, Water Quality Final Report II, 1973 (Part 1 of 2)
19. Island, Lower Long and Forest Lakes, Water Quality Final Report II, 1973 (Part 2 of 2)
20. Kingswood Lake, Vegetation Control, 1947-1953
21. Lake Angelus, Pollution Study, 1969
22. Lake Angelus, Pollution Study, 1970
23. Lake Management Symposium, 1972
24. Orange Lake, Vegetation Data, 1948
25. Orchard Lake, Vegetation Data, 1948
26. Progress Reports, 1946-1949
27. Sodon Lake, Chemical Analysis, 1947
28. Sodon Lake, Field Notebooks, 1946-1947
29. Sodon Lake, Field Notebooks, 1947
30. Sodon Lake, Green Sulphur Bacterium, 1947-1950
31. Sodon Lake, Light Readings, 1947-1949
32. Sodon Lake, Mollusk Reports, 1949
33. Sodon Lake, Organic Matter Data, 1947-1949
34. Sodon Lake, Oxygen Studies Data, 1947
35. Sodon Lake, Ph Data, 1947
36. Sodon Lake, Plankton Analysis Data, 1947
37. Sodon Lake, Pollen Reports, 1948
38. Sodon Lake, Sediment Color Grading Data, 1948
39. Sodon Lake, Seeding-on Experiments, 1947
40. Sodon Lake, Temperature Data, 1947
41. Sodon Lake, Temperature Data, 1948
42. Sodon Lake, Temperature Data, 1949
43. Sodon Lake, Temperature Reports, 1948
44. Sodon Lake, Temperature Reports, 1949
45. Sodon Lake, Vegetation Data and Reports, 1947-1948
46. Sodon Lake, Water Productivity Reports, 1950

47. Walnut Lake, Light Reading/Phosphorus Data, 1947
48. Walnut Lake, Vegetation Data, 1948
49. Wing Lake, Pollution Study, 1969-1970
50. Wing Lake, Vegetation Data, 1948

Great Lakes Research Group Sub-subseries

51. EPA Projects, Monroe Harbor (R810232-01), 1982
52. EPA Projects, Monroe Harbor (R810232-02), 1982-1983
53. EPA Projects, Monroe Harbor (R810232), 1983
54. EPA Projects, Monroe Harbor (R810232), 1984
55. EPA Projects, Monroe Harbor (R810232-02), 1985-1986
56. EPA Projects, Saginaw Bay (R802685-1), 1973
57. EPA Projects, Saginaw Bay (R802685-2), 1974-1975
58. EPA Projects, Saginaw Bay (R802685), International Joint Commission Report, 1977
59. EPA Projects, Saginaw Bay (R802685), 1975-1980

Box 13

1. EPA Projects, Saginaw Bay (R804442-01), 1976-1977
2. EPA Projects, Saginaw Bay (R804442-02), 1977-1978
3. EPA Projects, Saginaw Bay (R804442-03), 1978-1986
4. EPA Projects, Saginaw Bay (R806597), 1979
5. EPA Projects, Saginaw Bay (R806597), Feb 1980-Mar 1980
6. EPA Projects, Saginaw Bay (R806597), Apr 1980-Dec 1980
7. EPA Projects, Saginaw Bay (R806597-03), 1981-1983
8. Great Lakes and Marine Waters Center (GLMWC) Advisory Committee, 1975-1977
9. LLRS, Government Funding, 1981
10. LLRS, Government Funding, 1982
11. LLRS, Government Funding, Jan 1983-Feb 1983
12. LLRS, Government Funding, Mar 1983
13. LLRS, Government Funding, Apr 1983
14. LLRS, Government Funding, 1983(?)
15. LLRS, Reorganization, 1984
16. Proposal to Purchase Organic Contaminants Analytical System, 1983-1984
17. Workshops, Dioxins in the Environment, 1983
18. Workshops, Transport and Fate of Particulate Associated Pollutants, 1983

Library Subseries

19. Annual Report, 1982
20. Book Inventory, 1976
21. Budget, 1984-1986
22. Collection Descriptions, 1976-1989
23. Donations, 1950-1990

24. Expansion/Collection, 1974-1985
25. Policy, 1979
26. Publication Exchange Partners List, 1967-1987
27. Serial Holdings and Subscriptions, 1969-1977

Visiting Scholars Program Subseries

28. General Information, 1962-1971
29. Chapman, V.J., 1967-1980
30. Daniels, Farrington, 1963-1969 (See also: 9:71 CIS Exhibits, Solar Energy)
31. Dansereau, Pierre, 1965-1989
32. Fox, Denis, 1969-1970
33. Fox, Denis, Personal Correspondence, 1971-1983
34. Sax, Karl, 1966-1973
35. Thompson, Eric, 1966-1975

Cain, Stanley Iconography Subseries

36. Cattail Marsh, Chlorophyceae, 1947
37. Cattail Marsh, Chlorophyceae, 1947
38. Cattail Marsh, Chlorophyceae, 1947
39. Cattail Marsh, Chlorophyceae, 1947
40. Cattail Marsh, Chlorophyceae, 1947
41. Cattail Marsh, Dinophyceae, 1947
42. Cattail Marsh, Myxophyceae, 1947
43. Cranbrook Fountain Pool, Chlorophyceae, 1947
44. Cranbrook Fountain Pool, Myxophyceae, 1947
45. Cranbrook Lake, Bacillarieae, 1947
46. Cranbrook Lake, Chlorophyceae, 1947
47. Cranbrook Lake, Chlorophyceae, 1947
48. Cranbrook Lake, Chlorophyceae, 1947
49. Cranbrook Lake, Euglenophyceae, 1947
50. Cranbrook Lake, Myxophyceae, 1947
51. Cranbrook Lake, Plankton, 1947
52. Cranbrook Lake, Plankton, 1947
53. Cranbrook Lake, Protozoa, 1947
54. Cranbrook Lake, Protozoa, 1947
55. Cranbrook Lake, Trochelminthes, 1947
56. Cranbrook Pond, Chlorophyceae, 1947
57. Cranbrook Pond, Protozoa, 1947
58. Cranbrook Pond, Rotatoria, 1947
59. Echo Lake, Plankton, 1947
60. Haven Hill, Chlorophyceae, 1947
61. Highlands Area, Chlorophyceae, 1947
62. Highlands Area, Dinophyceae, 1947
63. Highlands Area, Heterokonte, 1947
64. Highlands Area, Myxophyceae, 1947

65. Newcomb Lake, Chlorophyceae, 1947
66. Newcomb Lake, Dictyothrix, 1947
67. Newcomb Lake, Heterokontae, 1947
68. Newcomb Lake, Myxophyceae, 1947
69. Orange Lake, Chlorophyceae, 1947
70. Orange Lake, Dinophyceae, 1947
71. Orange Lake, Myxophyceae, 1947
72. Orchard Lake, Bacillarieae, 1947
73. Oxbow Road, Bacillarieae, 1947
74. Sodon Lake, Bacillarieae, 1947
75. Sodon Lake, Chlorophyceae, 1947
76. Sodon Lake, Chlorophyceae, 1947
77. Sodon Lake, Cyanochloridinae, 1947
78. Sodon Lake, Fossils, 1947
79. Sodon Lake, Fossils, 1947
80. Sodon Lake, Fossils, 1947
81. Sodon Lake, Heterokontae, 1947
82. Sodon Lake, Myxophyceae, 1947
83. Sodon Lake, Myxophyceae, 1947
84. Sodon Lake, Plankton, 1947
85. Sodon Lake, Plankton, 1947
86. Sodon Lake, Plankton, 1947
87. Sodon Lake, Plankton, 1947
88. Sodon Lake, Plankton, 1947
89. Sodon Lake, Plankton, 1947
90. Sodon Lake, Protozoa, 1947
91. Sodon Lake, Vegetation, 1947
92. Sodon Lake, Vegetation, 1947
93. Sogden Lake, Arthropoda, 1947
94. Sogden Lake, Bacillarieae, 1947
95. Sogden Lake, Chlorophyceae, 1947
96. Sogden Lake, Plankton, 1947
97. Sogden Lake, Plankton, 1947
98. Sogden Lake, Protozoa, 1947
99. Sogden Lake, Rotatoria, 1947
100. Teeple Hill Lake, Myxophyceae, 1947

Series VI RENOVATION & EXPANSION

Box 14

1. Architectural Advisory Council, 1990
2. Arrival Feature, 1994-1995
3. Assistant Director's Report, 1989-1990
4. Children's Shop, Workshop, Bookshop, 1974
5. Competitive Positioning Study (2 copies), June 1986

6. Consultants (list of), 1984
7. Edison House—Dedication, 6-1-1966
8. Edison House—General, n.d., 1960s-1989
9. Edison House—Guestbook, n.d.
10. Edison House—Inventories, n.d., 1966, 1980-1981
11. Energy Efficiency Analysis, 1989
12. Expansion Proposal, 1945
13. Expansion Proposals, 1969-1980
14. Feasibility Study—C.W. Shaver & Co., 1981
15. Funding—Bond Issue, 1994
16. Funding—Capital Campaign, 1990-1991
17. Gerard Hilferty & Associates (GHA)—Contract with CIS, n.d.
18. GHA—Interpretive Planning Report, June 1989
19. GHA—Schematic Design Drawings, 1989
20. Hellmuth, Obata & Kassabaum, Inc (HOK), 1986-1987
21. HOK, 1988-1989
22. HOK—Contracts, 1984, 1986, 1989
23. HOK—Plans and Elevations, n.d., 1986, 1990
24. HOK—*Preliminary Code Review* (2 copies), May 1989
25. HOK—*The Saarinen Tradition* by William Odell, 1989
26. HOK—*Schematic Design Summary*, April 1989
27. Hoffman, Dan, 1991
28. Steven Holl Architects, n.d., 1993
29. HVAC, 1989
30. Interim Exhibit Strategy, 1986
31. Janus, 1987
32. Market Research, June 1984
33. Market Research—*Audience Research for Expansion Project*, March 1991
34. Market Survey of Oakland, Wayne, and Macomb Counties, July 1984
35. National Register of Historic Places, 1987
36. Nature Center, 1967-1989
37. “The New Institute” brochure, 1995
38. “The New Institute” report, March 1995
39. “The New Institute” Steering Committee, 1995
40. Operating Expense Projections, 1988, 1992
41. Parking Issues, 1989, 1995-1996
42. Phase I—Security Risk Analysis and Recommendations, 1996
43. Planning Study—Bentz, Whaley, Flessner & Associates, March 1985
44. Project Background and Key Dates, 1970s-1990s
45. Project Organization, n.d., 1988
46. Project Schedules, 1989-1996
47. Project Team Goals and Objectives, 1989
48. Project Team Meeting Minutes (includes all committees), 1985-1986
49. Project Team Meeting Minutes (includes all committees), 1988

50. Project Team Meeting Minutes (includes all committees), Jan-May 1989
51. Project Team Meeting Minutes (includes all committees), Jun-Dec 1989
52. Project Team Meeting Minutes (includes all committees), 1990-1991
53. Project Team Quarterly Reports, Jun-Aug 1989
54. Project Updates, 1991
55. *Renovation & Expansion News & Views*--newsletter, 1989-1990
56. Roof, n.d., 1992
57. Soil Investigation, 1989
58. Statement of Concern Regarding [R&E Plans] by Richard Redding, c.1989
59. TMP Associates, c. late 1970s
60. Wint, Dennis—Renovation & Expansion files pertaining to, 1984-1986
61. Woodward Access, 1985-1991

Series VII CORRESPONDENCE

Box 15

1. "A" general, 1930-1940
2. "A" general, 1941-1950
3. "A" general, 1951-1960
4. "A" general, 1961-1970
5. "A" general, 1971-1980
6. "A" general, 1981-1990
7. Academy of Art, 1950-1951, 1977-1982
8. Academy of Art, 1983
9. Academy of Art, 1984-1985
10. Academy of Art, 1986-1987
11. Academy of Art, 1988-1991
12. Allen, Louis, 1980-1982
13. Allen, Sanford, 1947-1957
14. "B" general, 1930-1940
15. "B" general, 1941-1950
16. "B" general, 1951-1960
17. "B" general, 1961-1965
18. "B" general, 1966-1970
19. "B" general, n.d., 1973-1982
20. Bauder, Lillian, 1985-1986
21. Bauder, Lillian, 1987-1988
22. Bauder, Lillian, 1989-1990
23. Bauder, Lillian, 1991-1993
24. Beresford, James, 1930-1969
25. Beresford, William, 1945-1966
26. Billington, Cecil, n.d., 1926-1939, 1950
27. Bingham, Marjorie, 1935-1946

28. Board of Trustees (CIS), 1930-1973
29. Booth, George, n.d., 1927, 1930-1941
30. Booth, Henry S., 1946-1987
31. Bowen, Robert N., 1969-1974
32. Bowen, Robert N., 1975-1978
33. Bowen, Robert N., 1979
34. Bowen, Robert N., 1980
35. Boy Scouts of America, 1950-1951, 1982
36. Brown, G. Arthur Jr., 1963-1969
37. Bulkley, J. James, 1950-1955
38. Butchart, G. Reeves, 1951-1960
39. Butler, Michael V., 1969-1982
40. "C" general, 1930-1940
41. "C" general, 1941-1950
42. "C" general, 1951-1960
43. "C" general, 1962-1964
44. "C" general, 1965-1969
45. "C" general, 1970-1980
46. "C" general, 1981-1989
47. Cahalane, Victor H., 1931-1934, 1963
48. Cain, Stanley A., 1947-1988
49. Carmel, James H., 1951-1954, 1959, 1969-1971
50. Christ Church Cranbrook, 1950-1951
51. Cislser, Walker L., 1954-1958, 1970
52. Colburn, William B., 1933-1934, 1938, 1966-1967
53. Cranbrook Central Committee, 1950-1951, 1963
54. Cranbrook Foundation, 1932-1983
- 55A Cranbrook Foundation – Housing, 1946-1974
55. Cranbrook School, n.d., 1946-1966
56. Cresap, McCormick & Paget, 1965
57. Curtis, Heber D., 1934
58. "D" general, 1934-1940
59. "D" general, 1941-1950
60. "D" general, 1951-1960
61. "D" general, c. early 1960s, 1961-1970
62. "D" general, 1971-1971, 1979
63. "D" general, 1982-1989
64. Dahlberg, LeRoy W., 1960-1983

Box 16

1. Detroit Edison, 1949, 1962-1969
2. Dice, Lee R., n.d., 1931-1967
3. Dockstader, Frederick, n.d., 1950-1953, 1960s, 1980
4. Drinkwine, Tammy, 1981-1986
5. "E" general, 1933-1950
6. "E" general, n.d., 1951-1958

7. "E" general, 1963-1986
8. "F" general, 1934-1950
9. "F" general, 1951-1960
10. "F" general, 1961-1970
11. "F" general, n.d., 1974-1986
12. "G" general, 1930-1955
13. "G" general, 1962-1968
14. "G" general, 1975-1983
15. George, Edwin O., 1962-1966
16. George, Col. Edwin S., 1937-1966
17. Goddard, Archibald N., 1936-1966, 1985
18. "H" general, 1931-1950
19. "H" general, 1951-1966
20. "H" general, 1971-1980
21. Hall, Dr. Marion T., 1950-1951
22. Hatt, Robert T., 1935-1950
23. Hatt, Robert T., 1951-1958
24. Hatt, Robert T., 1960-1968
25. Horizons Upward Bound (HUB), 1991
26. Hulbert, Henry S., 1930-1959
27. "I" general, 1946-1951
28. "I" general, 1968-1989
29. "J" general, 1935-1967
30. "J" general, 1980-1987
31. Jacobowitz, Ellen S., 1992, 1994
32. Junior College proposal, 1940-1941
33. "K" general, 1932-1950
34. "K" general, n.d., 1951-1955
35. "K" general, n.d., 1961-1966, 1979-1980
36. Kingswood School, 1950
37. "L" general, n.d., 1950-1967, 1979-1985
38. Leopold, Nathan F., 1924-1974
39. "M" general, 1926-1950
40. "M" general, 1951-1960
41. "M" general, 1962-1967
42. "M" general, 1973-1982
43. Mains, Edward, 1947
44. Martin, Dan, 1980-1982
45. Martin, Dan, 1983
46. Martin, Dan, 1984
47. Mexico, 1950-1951
48. Michigan Department of Conservation, 1950-1951
49. Michigan, State of, 1983-1991
50. Michigan State University, 1950-1951
51. Michigan, University of, 1944, 1950-1951
52. "Mc" general, 1926-1950

53. "Mc" general, n.d., 1963-1989
54. McMath, Robert, 1932-1965

Box 17

1. "N" general, 1930-1976
2. National Bank of Detroit, 1946-1948, 1950-1951
3. National Research Council, 1950-1951
4. Newcomb Memorial Fund, 1951-1952
5. Nickell, Walter P., 1950-1951, 1965
6. "O" general, 1946-1967
7. "P" general, 1939-1950
8. "P" general, 1951-1959
9. "P" general, 1964-1965
10. "P" general, 1970-1984
11. Pope, Mary Soper award, n.d., 1945-1970
12. Prescott, G. W., 1947, 1951
13. "Q" general, 1950
14. "R" general, 1946-1969
15. Roth, Kathleen, 1980-1987
16. Rowland, Levi P., n.d., 1926, 1954
17. "S" general, n.d., 1936-1958
18. "S" general, 1961-1967
19. "S" general, 1974, 1978
20. "S" general, 1981-1985
21. Slawson, Chester, n.d., 1926-1964
22. Smithsonian Institution, 1950-1953, 1962, 1972-1974, 1980-1990
23. "T" general, 1950-1957
24. "T" general, n.d., 1965-1978
25. Tyrrell, W. Bryant, 1929-1930, 1954
26. "U" general, 1931-1963, 1971
27. United Nations Educational, Scientific and Cultural Organization (UNESCO), 1950-1951
28. United States Department of State, 1951, 1963
29. United States Senate and Congress, 1950, 1962-1963, 1985-1991
30. University Publishers, 1960, 1963-1964
31. "V" general, 1949-1960
32. Van Tyne, Josselyn, 1946-1951
33. "W" general, 1930-1950
34. "W" general, 1951-1970
35. "W" general, 1972-1987
36. Wards Natural Science Establishment, Inc., n.d., 1938-1951
37. Wayne [State] University, 1936-1951
38. Wells, James R., 1980-1983
39. West, Robert M., 1987-1990
40. Wint, Dennis M., 1982-1983
41. Wint, Dennis, M., 1984-1986

42. Wittliff, Arthur B., n.d., 1946, 1955-1965
43. Wittry, Warren L., 1966-1968
44. Wittry, Warren L., 1969-1972
45. "Y" general, 1951-1979
46. "Z" general, 1963

Series VIII OVERSIZED MATERIALS

Box 18

1. HOK Facility Program for CIS, August 1984

Box 19 Restricted files—no access

CIS Director's Papers Index

Abbreviations used in the index are listed as follows:

CAA=Cranbrook Academy of Art

CEC=Cranbrook Educational Community

CIS=Cranbrook Institute of Science

EDT=Exhibit Development Team

EDTEC=Exhibit Development Team Extension Committee

EPA=United State Environmental Protection Agency

ERTS=Earth Resources Technology Satellite

GLC=Government Liaison Committee of the Society of Vertebrate Paleontology

GHA=Gerard Hilferty & Associates

HOK=Hellmuth, Obata and Kassabaum

LLRS=Large Lake Research Station (located in Grosse Ile, Michigan)

SVP=Society of Vertebrate Paleontology

A&A Asphalt Paving Co. 15:4

Abbey Homes 15:5

Abu Simbel 17:28

Academy of Natural Sciences 15:4

Academy of Art 15:30

--correspondence 15:7-11

--gifts to 15:7

--loans from 9:1, 15:8-9

--Triton Pool—water quality 13:32

--Wallace Mitchell 15:4

Accessioning & cataloging procedures—exhibits 9:20

Adler Planetarium 16:54

Admissions 6:15-18

Adney, A. T. 15:2, 15:44

AIDS exhibit 9:2

Alabama, University of 15:4

Alaska—film by Ben East 16:12

Alaska

--Native American rights 17:29

--statehood 17:29

Albany Institute of History and Art 15:5

Alberta [Canada] Natural Resources and Sciences Centre 15:6

Aleksa, John 15:4, 15:31, 15:36

Algae study 15:48

All Things Beautiful: The Japanese Tradition exhibit 9:3

Allen, Louis 15:12

Allen, Sanford 15:13, 15:54, 16:33

Allied Film Laboratory 15:5

Alma Public Schools 15:1
 Altman, Ralph 15:3
 Althin, Torsten 15:5
 American Association of Museums (AAM) 15:5-6, 15:14, 15:40, 16:5, 17:41
 American Association of University Women 15:3, 15:6
 American Meteorite Laboratory 15:2
 American Meteorite Museum 15:3
 American Museum 15:6
 American Museum of Natural History 15:1, 15:36
 --Clyde Fisher (American Indians) 15:2
 --Brian Mason 15:4
 --specimen purchase 15:2
 Amster, Jerry 17:40
 Analemma (Arrival Feature) 14:2
 Ancient Egypt and the Tomb of Tutankhamen exhibit 9:4
 Angell Foundation 15:5
 Animal hides 15:19, 15:40, 17:19, 17:26
 Animals as Architects exhibit 9:5
 Annual reports 1:1-48, 2:1-9
 Anschultz, Reynold G.—mineral donation 15:3
 Anthropology collection 15:44
 Apple Computers 15:6
 Apple Island 8:28 *see also* Cranbrook Nature Sanctuary
 Applied Science and Technology, Inc. 8:43
 Appraisals 6:35-41, 17:19
 Arboretum
 --development 11:1-4
 --plan 16:30, 17:40
 Architect selection—renovation & expansion project 14:1
 Architectural Advisory Council 14:1
 Archives at CIS--proposed creation of 7:62
 Argullite carvings 15:62
 Armed Forces exhibit 17:26
Arizona Highways—art of William H. Howe 15:5
 Arnold Arboretum 15:3
 Arrival Feature 14:2
 Art Institute of Chicago 15:43
 Art Metal Construction Company 15:1
 Art collection—CIS 6:36
 Articles of Incorporation 2:10
 Association of American University Presses 15:3-4
 Association of Science Museum Directors (ASMD) 11:45-47
 Association of Systematics Collections 11:45-47
 Astronomy program 16:2
At the Museum 10:17
 Atlantic Ecological Research Station 15:17

Atlas Designed to Illustrate Geography of the Heavens 15:45

Attendance figures 6:15

Audubon prints 9:6

Audubon Society—Kirtland's Warbler 15:6

Australian Mining & Exploration Co. 15:6

Autumn Fest 7:6

Avinoff, A. 15:40

Awards

--Mary Soper Pope award 6:19-33

--President's Award for Excellence 6:34

Backus, Mrs. Standish 15:16

Bailey, Irving Widmer 6:27, 15:16, 16:23, 17:11

Bailey, Karl D. 15:16, 12:23

Baker, William H. 15:17

Baltimore Museum of Art 15:59

Barden House 15:55A

Barnes, Dr. Carl, Jr. 10:63

Bartz, Christine 13:21

Basketry of the North American Indians exhibit 9:7

Bauder, Lillian 15:20-23, 17:39

Baxter, Dr. Dow V. 15:17-18, 16:24

Bayer, Goren, Gornbein, Gropman, and Kaplan, P.C.—Drinkwine lawsuit 16:4

Beaudette, Mrs. O. L. 15:14

Beaver Island 15:47

Bee Club 15:46

Belanger, C. A. 15:16-17

Belprez, George 15:18

Benedict, G. W. 15:14

Bendix Corporation 9:15

--Bendix Aerospace Systems Division 12:4-6

Benninghoff, Bill 13:23

Bentz, Whaley, Flessner & Associates, Inc. 6:78

Beresford family 2:13

--Beresford, Florence Booth 8:29, 8:34, 15:17, 15:19, 17:40-41

--Florence Booth Beresford Trust 17:41

--Beresford, James A. 15:24, 16:22, 17:2, 17:43-44

--Beresford, John B. 17:40

--Beresford, William E. 15:25, 15:36

Beresford farm (Metamora, MI) 8:34-37, 15:20

--appraisal 8:35

--CEC v. Hebert, et al 8:36

--CEC v. Spangler, et al 8:37

--purchase agreement 11:4

Beresford Foundation 14:4

Beresford property (411 Lone Pine Rd.) 2:13, 8:29, 15:21, 17:40
 Beresford teaching center (Mineral Hall) 9:59
 Bicentennial exhibits 9:8, 10:70
 Bicknell, Alice 12:30, 16:23
 Billington, Cecil 15:54, 17:1

- *A History of the Cranbrook Institute of Science* 2:51
- *In Behalf of the Cranbrook Institute of Science* 2:52
- biographical information 15:26
- correspondence 15:26
- estate (book donation) 13:23

Bingham, Marjorie 15:27
 Bird banding 11:69-70, 15:31
 Bird collecting/collection 15:42, 15:47, 16:9, 16:23, 16:34, 17:23, 17:32
 Bird Research Foundation 16:22
 Black, Fred 15:16
 Blain, Alexander W. 15:15
 Blakslee, George C. 16:26
 Blanchard, Congressman James 13:9
 Bloomfield Hills City Council—satellite/TV antenna proposal 7:63
 Blue Sky plan (future planning) 6:4
 Blythe, Gerald S. 15:55, 16:23
 Board of Governors *see* Trustees
 Boehlert, Sherwood 17:29
 Boilers 15:54
 Bolivian textiles 17:45
 Bone identification 15:42
 Booth, Alice (Mrs. Warren) 17:4
 Booth, Ellen Scripps memorial 16:16
 Booth, Henry Scripps 11:1, 15:24, 15:54

- correspondence 15:30
- grant to CIS, 1946 16:54
- Maple Sugar Festival*, poem 15:30

Booth, George G.

- correspondence 15:29
- Henry S. Hulbert 16:26
- mineral donation to start CIS 15:29
- Native American collection 16:22
- Rowland collection purchase 16:39, 17:16
- Chester Slawson correspondence 17:21

Booth George G. Corporation 2:50
 Booth, James Scripps 15:16

- car collection 15:29

Booth Lake 12:20 *see also* Cranbrook Lake and Kingswood Lake
 Booth Memorial Committee 15:15
 Booth, Warren 15:14, 16:22
 Botany 15:27, 15:48, 16:21

Bouchard, Rep. Mike 15:23
 Bowen, Robert 15:7
 --Barden House 8:27
 --correspondence 13:33, 15:31-34
 Boy Scouts of America 15:35
 Bradfield, Elizabeth 15:14
 Brady, R. McClelland 15:14, 15:26, 15:29
 Braun, Emma Lucy 6:26, 17:11
 Brede, Ruth Howell 15:43
 Brioux, Alain 15:43
 Brixley, Shawn 15:10
 Brooklyn [NY] Museum 15:14, 16:22-23
 Brookside School—Audubon prints 9:6
 Broomfield, Congressman William 12:51, 13:3, 13:6, 13:11, 17:29
 Brown, G. Arthur, Jr. 15:36, 17:43
 Bruce Museum 16:19
 Bruny Brothers Inc.—title contractors 15:15
 Buckberrough, John
 --Land description, CIS 2:53
 Budget/Finance 6:35-81, 15:53
 --insurance for collections 16:33-35
 Budget cutbacks, science education 10:55
 Buffalo [NY] Museum of Natural History 15:14
 Buffalo [NY] Museum of Science 15:15, 15:27
 Building footage 7:35
 Bulkey, L. James 15:16
 --correspondence 15:37
 Bunt, Floyd 12:8, 17:37
 Butchart, Mrs. G. Reeves 15:38, 16:3, 17:32
 Butler, Michael V. 15:39
 Bylaws 2:54

Cahalane, Victor H. 15:57, 16:26, 16:54
 --correspondence 15:47
 --resignation 16:2
 Cain/Cowles collection 13:23
 Cain, Louise 15:48
 Cain, Stanley A. 15:41, 17:12
 --correspondence 15:48
 --manuscripts 11:12-13, 12:32
 --Mary Soper Pope award 6:32, 17:11
 --papers 11:12-13
 --published works 11:10, 12:37, 12:44
 --research 15:48
 --research, botany 11:11

--research, inland lake 12:2-3, 12:20, 12:24-26, 12:31-33, 12:35-38, 12:40, 12:42,
 12:44-45, 12:48, 12:50, 13:36-100
 Canoe—Solomon Islands 16:10, 16:24
 Cardenas, Martin 6:25, 17:11, 17:28
 Carlebach, Julius, Inc. 15:41
 Carmel, James H. 12:10
 --correspondence 15:49
 Carnegie Institution of Washington 15:42
 Carnegie Mineralogical Award 2:54
 Carolina parrots (bird) 15:58, 16:22
 Carr, Congressman Bob 13:13, 17:29
 Carr, John and Son 15:43
 Carrier pigeons 16:18
 Carson Astronomical Instruments 15:45
 Case, Gerald R. 11:38-42
 Cassirer, F.W. 15:40
 Cattail Marsh 13:36-42
 CEC 6:16
 --centralization 15:28
 --centralization proposal (1962) 15:54
 Cemetery—North Territorial Road, Plymouth, MI 15:32
 Cenco Instruments Corporation 17:18
 Central Cottage Industries Emporium 17:43
 Chamaedaphne Bog 13:64
 Chandler, Milford G. 15:42
 Changing Earth exhibit 9:10
 Chicago Natural History Museum 15:42
 Child Lake 12:2, 12:38
 Children's Museum of Indianapolis 16:12
 China dinner set 16:39
 Chissus Construction 7:36, 14:36
 Christ Church Cranbrook (CCC) 15:50
 Church-Craft 15:36, 15:43
 Cider press 17:15
 Circus elephant (Jenny) 11:68
 Cisler, Walker 10:31
 CIS 10th anniversary celebration 7:7
 Cisler, Walker L.
 --correspondence 15:51
 Civil Service testing 15:53
 Clampitt, Philip 12:13-15
 Clausen, Jens Christian 6:24, 17:11
 Cleveland Museum of Natural History 15:40-41
 Clubs
 --Aboriginal Research Club 17:13
 --Michigan Botanical Club 7:1, 16:21, 16:40, 17:5

- Michigan Wildflower Association 7:2
- Oakland Audubon Society 7:3
- Sigma Xi 7:4
- Cobo Hall 17:39
- Cohen, Laura 15:45
- Colburn, William B. 15:26, 15:42-44
 - bequest to CIS 15:52, 15:64
 - correspondence 15:52
- Colby, Frederick L., Jr. 15:43
- Collection Connection exhibit 9:11
- Collection management policies 9:20
- Coleman, Laurence Vail 15:30
- Colter, Bruce, Jr. 15:45
- Columbia University 16:52
- Comar Corporation 7:42, 15:45 *see also* Space/Defense Corporation
- Committees (Trustees/Board of Governors)
 - Annual Giving 2:12
 - Beresford Property 2:13
 - Building 2:14, 16:33
 - Capital Campaign 2:15
 - Community Relations 2:16, 2:17, 2:18, 2:19
 - Cranbrook Nature Sanctuary 2:20
 - Development 2:21
 - Educational Programs Advisory 2:22
 - Education 2:23-2:25
 - Executive 2:26-2:28
 - Finance 2:29, 16:18, 17:2
 - Governance 2:30
 - Mineralogical 2:31
 - New Wing/Renovation & Expansion 2:32-2:35
 - Nominating 2:36
 - Operating Procedures 2:37
 - Operations (Forward) Planning 2:38
 - Planning, Promotion & Public Relations 2:39
 - Publications 2:40
 - Research 2:41-2:43
 - Science Advisory 2:44
 - Special Projects 17:21
 - Ways & Means 2:45
- Community relations 7:1-30
- Computers 7:39, 15:45
 - computer-assisted exhibits 16:7
 - educational programs with computers 10:18
- Conferences
 - 3rd Annual Remote Sensing of Earth Resources Conference 12:6
- Connelly, Mimi 15:11

Construction 7:36-38 *see also* Maintenance
 --west wing 7:36
 --Nagey Courtyard 7:49-50
 --Skillman wing 7:37-38
 Consumers Power 15:46
 Cooper, Douglas 15:23
 Cooper, Paul 15:41
 Cooper, William E. 16:2
 Cornell, Sydney and Sandra 8:37
 Cornell University 15:49
 Coronet Instructional Films 17:14
 Coward McCann Publishing Company 15:44
 Craft books 10:19
 Cranbrook Central Committee 15:53
 Cranbrook Foundation 15:13, 15:17, 15:26, 15:29-30, 17:42
 --correspondence 15:54
 Cranbrook Fountain Pool 13:33-34
 Cranbrook, Kent, England 16:5-6
 Cranbrook Lake 12:20, 12:26, 12:28-29, 13:45-55 *see also* Kingswood Lake and Booth
 Lake
 Cranbrook Nature Sanctuary 2:20, 2:28, 2:45, 15:11, 15:21, 15:23, 15:33
 --Apple Island 8:28
 --archaeological work 15:19
 --Boy Scouts of America 15:35
 --fencing 16:42
 --Flood Nature Chalet 8:31-33
 --Friends of the Nature Sanctuary 8:42
 --Hickory Pointe subdivision 15:34
 --security 16:28
 --Walter P. Nickell fireplace 17:44
 --Ward property 8:39-43, 15:26
 --opposition to sale of 8:42, 15:23
 Cranbrook On the Go program 10:20
 Cranbrook Pond 13:56-58
 Cranbrook Run 17:15
 Cranbrook School
 --correspondence 15:55
 --observatory 16:52
 --science educational programs for 15:40, 16:2
 Cravin, James A. 15:14
 Cresap report 2:46
 Cresap, McCormick and Paget 15:56
 Croze, Harvey Jr. 15:46
 Cultural Properties Committee 15:9
 Cumming, Ruth 15:46
 Curtis, Heber D.

--correspondence 15:57
Cybersol 15:43

DMB&B Public Relations 8:43

Dahlberg, LeRoy W.
--correspondence 15:64
Danish Ambassador—Count Keild Gustav Knuth-Winterfeldt 7:8
Danish Dinner 7:8
Dansereau, Pierre 15:60, 17:8
Dartmouth College 15:60-61, 16:24
Deam, Charles 6:22, 17:11
Deane, Rodney William 16:40
Dearborn Historical Museum 15:60
Deaton Museum Studio 16:24
Deer, white-tailed 15:61
DeLuxe Metal Furniture Company 15:58
Denio, John 15:18
Denver [CO] Art Museum 15:59
Department of Education 10:21
Department of Natural Resources—loan 17:1
DeTerra, Helmut 15:59
Detroit Acoustical Contracting Company 15:59
Detroit Adventure, Inc. 15:61-62, 16:24
Detroit Astronomical Society 15:59
Detroit Edison 13:11-12, 16:15
--correspondence 16:1
--Monroe Power Plant 11:22
Detroit educational television 15:61
Detroit Historical Museum 15:60
Detroit Historical Society 15:59
--Rowland collection 15:26
Detroit Institute of Art 15:58-59, 15:61, 17:31
Detroit Institute of Science 16:52
Detroit News 15:26
Detroit Public Schools 10:39-40, 10:72, 15:60
Detroit Science Center 2:47, 15:24, 15:49, 15:51, 15:61, 15:64, 16:28, 17:10, 17:34
Detroit Science Museum Society—development of Detroit Science Center 15:60
Detroit Zoological Institute 10:48, 15:60, 15:63, 17:39
Detroit's 250th anniversary celebration 15:60
Development office—establishment of 17:24
Dewhurst, C. Kurt 10:56
Diamond, Judy 9:67
Dice, Lee 15:26, 15:47, 15:57, 16:54 (as acting director)
--correspondence 16:2
--published works 11:74

Dingall, Congressman John 13:9, 13:11, 13:13
 Dinosaur tracks 17:1
 Dinosaurs! Dinosaurs! Exhibit 9:12
 Diorama—land conservation 16:40
 Director (CIS) correspondence on microfishe 15:34
 Director (CIS) search 15:26, 16:54 (1934)
 Discovery Room exhibit 9:13
 Distance learning 10:22
 Distortion mirror 16:41
 Diversity Task Force 2:19
 Dockstader, Frederick 16:3, 16:44
 Dodge, Cora 15:61
 Dog skeletons 16:19
 Donations 15:19, 15:54
 --bald eagle 15:40, 15:47
 --emerald 15:36
 --minerals 15:24-25
 --Nevin Fisk donation of Pre-Colombian artifacts 17:15, 17:40
 Donor report (to Board of Governors) 2:48
 Drake farmsite 16:42
 Dream Committee--future planning 6:4
 Drinkwine, Tammy—lawsuit 16:4
 Duffield, Henry Jr. 15:58
 DuMouchelles Certified Auctioneers and Estate Appraisers 7:60
 Dunn, Mrs. Alfred D. 15:61
 Dutch Elm disease—spraying on Cranbrook campus 17:5-6
 Dworak brass collection 17:26

Eames, Charles—*Powers of Ten* film 16:7

Earth Day 10:23
 Earth Quest exhibit 9:14
 Earth Resources Technology Satellite (ERTS) 9:15, 12:1, 12:4-7, 12:9, 12:56-57 *see also* LANDSAT
 Earth Science exhibit—modernization of current exhibit 9:16
 Earth's Treasures exhibit 9:17
 East, Ben 16:5, 16:12, 16:24
 --Arctic trip 16:22
 --Hudson Bay trip 16:22
 East and West Association 16:5
 Echo Lake 12:3, 12:28, 13:59
 Edison House 13:34, 14:7-10, 15:4, 15:18, 15:24, 15:30, 16:1, 16:7, 16:15, 16:35
 --Beresford tea set 17:43
 Edison Foundation 10:31
 Edsall, Bruce 16:11
 Edsel Ford Estate Lake 12:28, 13:64

Education staff correspondence 10:25
 Educational programs 10:15-87, 15:3, 17:23 *see also* Science education
 --funding for 10:31-41
 Edu-Mentor program 10:24
 Edwards property 8:30
 Ehrmann, Martin 16:6
 Eichstedt and Grissim Assoc.—landscaping 16:7
 Elementary school programs 10:26
 Ellis, Clark—sculpture placement 15:9
 Engler, Governor John 16:49
 Environmental issues
 --Recycling 6:3
 --Waste management 6:3
 Environmental Task Force 6:3
 Equipment
 --computers 7:39
 --expenditures and forecasts 7:40
 --inventories 7:40-41
 --lease from Space Defense Corp. 7:42
 Eschman, Don—reprint library 13:23
 Eskimo Art, Inc. 16:6, 16:40, 17:8, 17:22
 Eskimo exhibit/collection 9:18, 17:17
 Ethics and conduct code 8:16
 Events
 --Autumn Fest 7:6
 --CIS 10th Anniversary celebration 7:7
 --Danish Dinner 7:8
 --Fun Run 7:9
 --Robert T. Hatt's retirement dinner 7:12
 --Maple Syrup Festival 7:10
 --Robert R. McMath Planetarium dedication 7:11
 --Miscellaneous 7:5
 --Smithsonian at Cranbrook 7:13
 --Step Out for Science 7:14
 Ex-Cell-O Corporation 16:7
 Exhibit brochures 9:9
 Exhibit cases 15:1, 15:47, 16:2, 16:39
 Exhibit guidebooks 9:39-45, 9:65
 Exhibit planning
 --budget 9:19
 --collection planning 9:20
 --Exhibit Development Team (EDT) 9:21-24, 14:31
 --Exhibit Development Team Extension Committee (EDTEC) 9:10, 9:17, 9:37,
 9:54
 --exhibit evaluation 9:25
 --existing exhibit analysis 9:26

- exploratorium 9:27
- focus groups 9:28
- Gerard Hilferty & Associates (GHA) 9:21,9:29, 9:34, 9:68, 14:17-19
- goals & objectives 9:30
- guidelines 9:31
- master plan 9:32
- models 16:22
- San Diego Museum of Natural History 9:67
- schedule 9:33
- schematics design phase 9:34
- work groups 9:35

Exhibit planning and preservation 9:36, 15:49

Exhibits 9:1-72, 10:1-14, 10:18, 15:8, 15:46-47, 15:59, 16:13, 17:1, 17:14, 17:26, 17:33

Exploring the Universe exhibit 9:37

Faculty housing 17:9

- Barden House 8:27, 15:55, 17:34
- Faculty Row 15:55

Fair Employment Practices Act 15:61

Fallout shelter 17:26

Farwell, Olive 16:22

Farwell, Oliver 16:8

Farwell Library 16:8

Faxon, Senator Jack 16:49

Fecker telescope 9:61

Fern collection—Boston University 16:37

Ferns of Michigan 16:29

Ferry, Dexter M., Jr. 2:47, 15:24, 15:51, 15:64

Ferry, Hawkins 2:47

Ferry Foundation 2:47, 15:49, 15:61

Field Museum of Natural History [Chicago] 16:10, 16:22

Field trips 10:29-30

- Antarctic field trip 17:39

Field work—CIS Director 15:21, 15:40

- Hatt, Belgian Congo 17:8
- Hatt, Iraq 16:23
- Hatt, proposed field work 16:24
- Hatt, Yucatan 15:42, 16:22

Film projector 16:6

Filmmakers, Inc. 16:37

Fisher, Harvey I. 16:8

Fisher, Otto O.—Sir William Herschel manuscripts 16:10

Fletcher, Margaret 15:32

Flood, Aubrey C. and Grace H. 8:31-33, 8:40, 15:32, 16:8

- Audubon prints 16:11

Flood Nature Chalet 8:31-33 *see also* Cranbrook Nature Sanctuary
 Floor plans 7:43
 Flynn, David S.
 --memorial fund 16:11
 --Nature Center trail 15:33
 --scholarship fund 10:74
 Forbes, John Ripley 16:8
 Ford, James Bacon 15:64, 16:10
 Ford Nature Center *see* Nature Orientation Center
 Ford, William D. 17:29
 Forest Lake 12:10-19
 Forward planning 2:38, 2:39
 Fossil leaves 17:26
 Foucault pendulum 9:38, 15:39
 Foucault program 15:33
 Founders Day 15:50
 Founders Medal 15:30, 17:34
 Founders Memorial 15:59
 Fowler, James 11:75
 Fox, Denis 12:15
 Fox, James W. 16:11
 Fox, Virginia Beresford 17:44
 Fredericks, Marshall 15:33, 16:8, 16:10
 --bas-relief plaque of GGB and ESB 16:12
 --bench 16:39
 --Mary Soper Pope award 15:59, 17:11
 Freres, Sac—amber 16:9
 Frey, Donald N. 16:10
 Friedrich, Paul 15:53
 Friends of the Nature Sanctuary 8:42
 Fuertes exhibition 15:7
 Fuller, Arthur B. 15:49, 16:8-9, 16:23
 Fulling, Edmund H. 6:29, 17:11
 Fun Run 7:9
 Fundraising 2:12, 2:15, 2:21, 7:15-26, 15:24, 15:56
 --Academy of Art 15:8
 --Corporate contributions 2:12, 2:21
 --Lasers and Ice 7:19
 --Lighter Than Air 7:20
 --Orchids and Ice 7:21
 --Rainbows and Ice 7:22
 --Silver and Ice 7:23
 --Stars and Ice 7:24
 --Summer Spectacular 7:16
 --Treasures and Ice 7:25
 --Winterscape 7:26

Fur exhibit 15:59

Galloway, J.J. 16:12

Gamble, Stan—archaeological collection 16:14

General Electric Foundation 10:32

General Electric Research Laboratory 16:12

General Motors Corporation 7:42, 10:9, 16:46

General Motors exhibit—Skillman Wing 16:13

General Motors Research Laboratories 15:64, 16:13

George, Edwin O. 16:15

George, Edwin S. 16:26

--correspondence 16:16

--Edwin S. George Foundation 15:49

--Edwin S. George Publication Fund 15:64

--Edwin S. George Reserve—botanical survey 16:16

--*A Preliminary Study of a Program for the Development of Cranbrook Institute of Science* 16:16

Gerard Hilferty & Associates (GHA) 9:21, 9:34, 9:68, 14:17-19

Giffels-Webster Engineers 8:43

Gift shop 6:5

Gilpin, Laura 16:22

Gingerich, Philip 10:84

Globe, geo-physical 15:32

Goals and objectives--administrative 6:6-10

Goddard, Archibald N.

--correspondence 16:17

--Goddard estate—proposals for use 17:41

--Goddard Memorial 16:17

--*Some Thoughts Regarding the Future of Cranbrook Institute of Science* 16:17

Goddard, Eloise—flower paintings by Alice Goddard West 16:17

Goddard and Goddard Co. 16:17

Goddard, Mary G. 16:17

Goeldi, James 16:12

Good, Dave 17:38

Goodale, Marion 16:36

Goodall, Jane 15:32, 16:14

Goodenough, Daniel 17:18

Grand Rapids Press 15:26

Grand Rapids [MI] Public Museum 17:39

Grand Truck Western Railroad Company—glacial boulder 16:22

Great Depression era 15:47

--Works Progress Administration 16:22, 16:39

Green Family Foundation 16:14

Green, Mrs. Merle 16:13

Green Sulphur bacterium 12:30

Greenhouse—CIS 16:42
Greenway, Charles M. 16:12, 16:26
Group visits (schools) 10:71
Guard station, Academy Way 15:53
Guatemala 15:42
Guest, Bud—*Time Traveler* radio show 16:13, 17:43
Guy, Michael *Cranbrook Institute of Science* 6:14

Hafstad, Dr. Lawrence R. 16:19-20
Hagenah, Dale J. 11:9, 16:19-20
Halgrim, Robert C.—Edison House 16:19
Hall, Dr. Marion T. 16:21, 16:39
Hall of Light and Color 9:46
Halley's Comet 9:47
Hamtramck [MI] 16:18
Hamtramck Public Schools 16:19, 16:24
Handicap access 7:46
Hanes, Florence N. 16:20
Harding, James 11:72
Hardware of Mathematics exhibit 9:48
Harpoon 16:12
Harris, William P. 16:18-19
Hart, Phillip 17:29
Harvard University 16:18
Hatt, Robert T. 12:20, 16:3, 16:47
 --correspondence 16:22-24
 --Dream Committee (1939) 6:4
 --proposal for centralization of Cranbrook, 1946 17:42
 --Retirement dinner/retirement 7:12, 16:24
 --speech, *Experiences with a Museum Sales Desk* 16:22
Haven Hill 13:60
Hawaiian collection 15:59
Hawaiian exhibit 17:7
Hawaiian Historical Society 16:19
Hawaiian tree shells 16:37
Health hazards 7:47
Hearing and visually impaired—educational programs for 10:44
Heart Lake 12:8
Hebert, James 8:36-37
Hellmuth, Obata & Kassabaum (HOK) 2:32, 6:78, 9:21, 9:34, 14:20-26, 15:22, 18:1
Henry Ford Museum 16:9
Herbariums 15:45, 16:19
 --Billington Herbarium 16:22, 17:1
 --Farwell Herbarium 15:27, 15:41, 15:48, 16:8, 16:10, 16:22, 16:43
 --University of Michigan Herbarium 16:43

Herrick Foundation 15:12
 Hesz, Mrs. Eugene 16:18
 Hickory Pointe subdivision 8:40, 15:34
 Hiesey, William McKinley 6:24, 17:11, 17:17
 Highlands Area 13:61-64
 History (CIS) 2:49-2:55, 16:54, 17:1, 17:6, 17:21, 17:25, 17:34
 --Board of Directors, first meeting, July 1930 2:49, 16:26
 --Bylaws 2:54
 --CIS seal 2:49, 16:29, 16:33
 --Cranbrook School observatory 16:52
 --Deed 2:49
 --George G. Booth Corporation 2:50
 --Founding documents 15:26, 15:29
 --*A History of the Cranbrook Institute of Science*, Cecil Billington 2:51
 --Homestead property 2:49
 --*In Behalf of the Cranbrook Institute of Science*, Cecil Billington 2:52
 --Land description 2:53
 --Mineral collection, first 2:54
 --Original equipment expenditures 7:40
 --Rowland mineral collection 15:26, 15:29, 16:39, 17:16, 17:21
 --Tax exempt status 2:54
 --Trust indentures 2:54
 Hoey, Harry 15:55
 Hoffman, Dan 14:27
 Hogue, Gwendolyn Harkless 10:86
 Holl, Stephen Architects 14:28
 Hollender, Fred 17:31
 Holling, Holling C. 15:32-33, 16:20
 Hoke, George 15:33
 Honigman, Dave 16:49
 Hope for the Dunes vs. Martin Marietta 11:24
 Hope, John—sculptor 16:18
 Horizons Upward Bound 16:25
 --Science and Math Center 10:46
 Housing for employees 15:5-55
 Howard Hughes Medical Institute 10:33
 Howe, William H. 15:5, 15:31, 16:19, 17:44
 Hulbert, Henry S. 15:29, 15:47, 16:2, 16:54
 --correspondence 16:26
 --Hulbert Observatory 9:61
 --obituary 16:26
 Human Experience exhibit 9:49
 Hunter, Joseph H. 16:18
 Huron Mountain Lakes 12:9
 HVAC 7:48, 14:29

IBM—math exhibit 9:48, 9:57, 9:69, 15:39, 16:28, 17:43
Illinois State Museum 16:27
Inman, William U. 16:27
Institutional philosophy *see* Mission statement
International Council of Museums 17:27
Internships for students 10:45
Interstate Alarm Systems, Inc. 16:28
Inua: Spirit World of the Bering Sea Eskimo exhibit 9:50
Inventory—collection of scientific instruments made before 1900 7:43
Island Lake 12:10-19
Isle Royale National Park 16:27
It's All in Your Head exhibit 9:51

Jacobowitz, Ellen 15:23, 16:31
Janus 2 and 3 14:31
Japanese artifacts theft 7:60, 16:46
Jaques, Francis L.—bird paintings 16:29, 17:39-40
Jeffries, Paul 15:35
Jensen painting, gift 16:24
Jeryan, Chris 13:26
Johnson Associates, Inc. 11:4
Johnson, William J. Associates, Inc. 16:30
Johnstone, Arthur—CIS volunteer 2:54, 16:30, 17:41
Jordan, Chuck 16:29
Joslyn Art Museum 16:29
Junior College proposal 16:32
Junior League, Birmingham 16:29

Kahn, Matt—illustrations 11:10
Kalamazoo Nature Center 15:17
Kapp, William Edward 2:14, 7:31-32, 7:36-37, 15:37, 16:34-35
Kathmandu (Nepal)—published works, Robert West 11:35, 11:37
Katz, Herbert and Marjorie 15:44
Keck, David Daniels 6:24, 17:11
Kellogg Foundation 10:34-35
Kelly, Neil T. 15:33
Kelly, William (CIS Governor & Univ. of Michigan VP) 10:84
Kent, Rockwell 16:33
Kettering Foundation 15:37, 16:34
Kidder, A.V.—bone identification 16:33
Kiendl, Arthur 16:35
King Mahendra Trust for Nature Conservation 11:28
Kingswood Lake 12:26, 15:42 *see also* Booth Lake and Cranbrook Lake

--cleaning and dredging 15:30
Kingswood School 16:36
--biology course 15:24
--membership for students 16:36
Kinnear Manufacturing Co. 16:33-34
Kirkpatrick, Gertrude B. 16:33
Kirtland's Warbler: The Natural History of an Endangered Species 17:15
Kleckner, Keith R. 6:13
Knife, Fork, and Spoon exhibit 17:33
Knight Foundation 10:36
Knapp, Frank 12:27, 12:34, 16:33
Koelz, Dr. Walter 16:33
--Koelz exhibition 16:2
Kraft, James L. 16:33
Kresge Foundation 16:34
Kucher, Andrew A. 16:35

Lab rats from Africa 16:19
Laboratory equipment 15:45, 16:13, 16:22 (gift), 16:33
Lacy, Mary-Louise 16:37
Lake Angelus 12:15-16, 12:21-22
Lake Angelus Observatory 16:2
Lake Management Symposium 12:23
Lake research 12:1-59, 13:1-15, 13:29, 13:32
Lake Superior State College 10:47
LANDSAT 13:1
Land description, CIS 2:53
Landscaping 17:38
-- Skillman Wing 7:38
Lapidary machine 16:19
Large Lake Research Station (LLRS) 12:51-57, 13:2-3, 13:16
Lasera 9:52-53
Laserium 15:34
Lasers and Ice 7:19
Lawrence Technological University
--Master of Science proposal 10:48
Leakey, Dr. Mary 15:5
Leakey, Richard 15:33
Leakey Foundation 15:32
--*On the Track of Man*, film 17:15
Lectures 10:49, 10:80, 17:39
Leelanau County 11:14
Leggett, R.E. Company 16:37
Leitz microscope 17:18
Leopold, Nathan 15:31

--correspondence 16:38
Lerchen, William G. 16:37
Levin, Carl 17:29
Library
 --committee meeting minutes 8:20
 --designation as Government Records depository 17:26
 --document collection (1984) 13:22
 --expansion proposal 7:62
 --new books list (1989) 13:22
 --pamphlet file collection (1976) 13:22
 --rare books 13:24
 --shelving 15:58
Life Science exhibits 15:47
Lighter Than Air 7:20
Limnological program progress reports 12:26
Living World exhibit 9:54, 17:39
Loan policies—exhibits 9:20
Loaned exhibits 10:6
Logo design 6:11
Long range planning 15:28, 15:56, 17:24
Lotus Gallery 7:60
Lougee, Laura (Mrs. Arthur) 16:37
Love, Josephine Harreld 2:22, 10:86
Lowe, Earl 16:37, 17:15
Lower Long Lake 12:10-19
Lunar rock 9:61A
Lutzeier wedding dress 15:59
Lyon Foundation 10:37

Macatawa Dunes 11:11

Mains, Edward 16:43

Maintenance

--air conditioning 7:31-33, 7:48, 16:2
--boiler 7:34, 7:48, 15:54, 16:37
--building footage 7:35
--construction correspondence 7:36
--equipment inventories 7:40-41
--equipment lease 7:42
--floor plans 7:43
--general 7:44-45
--handicap access 7:46
--health hazards 7:47
--HVAC 7:48
--Nagey Courtyard 7:49-50
--painting 7:51

- parking/traffic flow 7:52-54
- penthouse 15:54
- reflecting pool 7:55
- roofing 7:56
- Skillman Wing 7:37-38
- storage space proposal 7:62
- TV antenna/satellite proposal 7:63
- utilities 8:2-3
- vehicles 8:4-5
- Mammal collection 16:2
- Man's Past Revealed exhibit 10:18
- Manufacturers National Bank of Detroit—investments 15:36
- Manufacturers' Appraisal Company 6:35, 6:37-41
- Maple Syrup Festival 7:10
- Marchand Brothers (Buffalo Museum of Natural History) 15:47, 16:39-41
- Marchand, Paul 16:24
- Market research—renovation & expansion project 14:32-34
- Marshall, A.J. Company—dinnerware 16:39
- Martin, Dan 11:3
 - correspondence 16:44-46
 - meeting agendas 16:44-46
 - meetings with Dennis Wint 16:44-45
- Mary Soper Pope award 6:19-33, 15:3, 15:11, 15:48
 - correspondence regarding 17:11
- Masks—ceremonial 16:33
- Masks: Occult and Utilitarian exhibit 9:55
- Mastadon bones 11:63-67, 15:32, 15:47, 16:5
- Master plan 15:20
 - exhibits 9:28, 9:32
- Masters of the Night exhibit 9:56
- Mathematics and Science Challenge Grant 10:62
- Mathematics Emporium exhibit 9:57, 15:39
- Mayan rubbings exhibition 16:13
- McCoy, Kathy—CIS logo design 6:11
- McCoy, Michael 15:10
- McGregor Fund 16:53
- McIlroy, Helen L. 15:54
- McMath, Francis C. 16:52, 16:54
- McMath, Robert 15:26, 16:2
 - correspondence 16:54
- McMath-Hulbert Observatory 15:26, 16:54
- McMath Planetarium 9:47, 9:52-53, 9:61, 9:66, 15:40, 15:54, 16:34, 16:54, 17:17
 - addition 15:24-25
 - dedication 7:11
 - official naming 15:51, 17:14
 - speculum metal reflector 15:40

Medallie Art Company 17:11
 Meen, V.B. 16:39
 Membership 2:16, 2:17, 2:18, 2:19, 7:27-29, 15:53
 --Members Night, 1950 16:22
 Menninger Foundation 16:24, 16:41
 Mentoring programs 10:24
 Merker, Dr. Harvey E. 16:39-40
 Merrill, Robert Hall 16:23, 16:40
 Meteorite specimens 16:10, 16:12
 Metropolitan Detroit Science Club 16:40
 Mexico
 --Instituto de Biologia 16:47
 Michaels Art Bronze Company 16:39
 Michalski, Charles 16:23, 16:40
 Michigan Cultural Commission 16:24, 16:40
 Michigan Department of Conservation 16:48
 Michigan Department of Natural Resources
 --contract number SDPMA-82-A 11:24
 --contract number SDPMA-83-A 11:24
 Michigan Education Seminars 10:50
 Michigan Mineralogical Society 16:39-40, 16:42
 Michigan Museum Association (MMA) 10:56
 Michigan Nature Association 15:60
 Michigan Science Museum Collaborative 10:22, 10:51-55, 10:78A
 Michigan Sesquicentennial exhibit 9:58
 Michigan, State of 16:49
 Michigan State University 10:56, 13:17, 16:18, 16:33, 16:50
 Michigan Technological University 9:15
 Michigan, University of 15:17, 15:26-27, 16:51
 --museums 10:84
 --professional relationship with CIS 16:2, 16:39
 Michigan Wildlife Art Awards 10:57
 Michigan Writer's Project 16:22
 Milles, Carl 15:32
 Milliman, Clare E. 16:39
 Mineral collection 2:31, 2:54, 15:52, 15:60, 16:11, 16:17-19, 16:22-23, 16:27, 16:29,
 16:40, 16:42, 17:1, 17:10, 17:16-17, 17:21, 17:31, 17:34, 17:36, 17:43 *see also*
 Rowland Collection *and* History (CIS)
 --lighting for the exhibit cases 16:1
 --statistics 17:22
 Mineral Hall 9:59
 --air conditioning 16:41, 16:53
 Mineralogical laboratory 15:36-37
 Mission statement 6:12, 6:13
 Mitchell, Wallace 16:39
 Mize, Ralph 16:45

Monnier, Lillian 16:40
Monroe Harbor—EPA project #810232 12:51-55
Montoya, Joseph M. 17:29
Moore, Sherman 16:23
Mortenson, Helen 17:40
Mott, Charles S. 16:42
Mott, Dr. LaMoine L. 10:62
Muench, Dr. Nils 10:31
Mulford, John W. 16:41
Mummy 15:46
Museum Adventures 15:44
Museum of the American Indian 16:3, 16:39
Museum Council of Metropolitan Detroit 15:59
Museum survey 16:35

Nagey, David A. 15:33
Nagey Courtyard 7:49-50, 15:33
Nash-Kelvinator Corporation—automobile loan 17:1
National Bank of Detroit 17:2
National Endowment for the Humanities—Hawaii exhibit 15:33
National Register of Historic Places 14:35
National Research Council 17:3
National Science and Technology Week 10:58
Native American collection 15:47, 16:19, 16:22, 16:28, 17:7, 17:17, 17:20, 17:33-34
Native American costume style show 15:59
Native American year record—loan 16:34
Nature Orientation Center 14:36
 --dedication 9:60
 --nature walk 10:59
Nature Sanctuary *see* Cranbrook Nature Sanctuary
Neatby, Kenneth 6:28, 17:11
Nepalese alter piece 16:24
New England Institute for Medical Research 15:16
New Institute Committee 8:21, 14:37-39
New York Botanical Garden 15:14
Newcomb, Cyrenius A.
 --boulder collection 17:1
 --mineral list 2:54
 --Newcomb Memorial Fund 17:4
Newcomb Lake 13:65-68
Newcomb, W.W. collection 16:23
Newcombe, Curtis 12:20, 12:26, 12:30-31, 12:33, 12:39, 12:41, 12:43-44
 --manuscripts 11:10, 11:36, 11:43, 11:73
 --published works 12:30, 12:44, 12:46
Neyer, Tiseo & Hindo, Ltd.—soil investigation 14:57

Nickell, Walter P. 2:41, 2:54, 11: 70, 17:24
--correspondence 17:5
Northern Michigan College [University] 16:54
Noyes, Jessie Smith, Foundation 16:46

Oakland Community College 10:61
Oakland County Public Schools 10:62
Oakland Education Collaborative 10:24
Oakland Mentorship program 10:24
Oakland University 10:63, 17:6, 17:38
Observations on Electricity by Benjamin Franklin 15:30
Observatory 15:26, 15:57, 16:26
--repair and maintenance 9:61
Office equipment 15:45
Oliver, James L. 17:6
Opal inventory 16:12
Orange Lake 12:24, 12:28, 13:69-71
Orchard Lake 12:25, 12:28, 13:72
Orchard Lake property *see* Cranbrook Nature Sanctuary
Orchids and Ice 7:21
Orchids of the Western Great Lakes 15:45
Organizational charts—personnel 8:22
Origin of the Species, Charles Darwin, original edition. Gift of Henry P. Zuidema 17:46
Osborn, Chase S. 17:6
Out of This World exhibit 9:61A
Oxbow Road 13:61, 13:73

Paleontology 11:28-29, 11:38-43, 11:48-49, 11:51-57
Pallasmaa, Juhani 14:2
Panamanian pottery 17:23
Parents Advisory Council 7:30
Park Plastic Company—Drinkwine lawsuit 16:4
Parking/traffic flow 7:52-54
Parsons, Professor Willard 17:43-44
Patterson, Joseph 17:10
Payne, Eugene H. 17:8
Peabody Museum 17:18
Penfield, Charlotte 13:27
Perrin, Lillian 15:14
Personnel
--Department Head meeting minutes 8:7-11
--Department Head retreats 8:12-13
--Education Committee meeting minutes 8:15
--ethics and conduct code 8:16

- Executive Committee meeting minutes 8:17
- honorary appointments 8:18
- job descriptions 8:19
- Library Committee meeting minutes 8:20
- New Institute Committee meeting minutes 8:21
- organizational charts 8:22
- staff lists 8:23
- staff meeting minutes 8:24
- volunteers & docents 8:25-26

Peterson, Donald 17:10

Peruvian collection 16:23, 16:29

- textiles 16:37

Pesticide spraying 15:54, 17:44

Peterson, Roger Tory 15:6

Pfeiffer, Agatha I. 17:10

Phase I—renovation & expansion project 14:42

Philippines, University of the 15:27, 17:7

Philippines—WWII, Japanese occupation 17:17

Photographic equipment 16:41

Photography classes 10:64

Physics classes 10:65

Physics Hall 9:62

- Cohen study 9:63
- collection 15:61, 16:13
- exhibit surveys 9:64

Physics Olympics 10:66

Planetarium *see* Spitz Planetarium or McMath Planetarium

Plants and the American Indian traveling exhibit

Pollution (lake) 12:11-14, 12:21-22, 12:49

Polynesian dancers 16:5

Pond (CIS) 15:33

Pontiac Area Urban League 10:67

Pontiac, MI—archaeological dig 17:14

Pontiac Public Schools 10:39-40, 10:68

- high school, mineral collection 17:7

Ponting Fund (Herbert and Elsa) 17:9

Pope, Gustavus D, Jr. 16:24, 17:7, 17:9, 17:11

Pope, Gustavus D., Sr. 15:29, 17:11

- memorial fund 15:54
- sportsmans library 15:54

Power, Eugene B. 16:6, 17:8

Power and Heat Engineering Company 17:7

Powers of Ten—Charles Eames film 16:7

Pre-Columbian artifacts 16:11, 16:18, 16:23

Pre-Incaic artifacts 16:40

Preschool programs 10:69

Prescott, G. W. (note: correspondents in this collection address Mr. Prescott at various times as G.W. Prescott, J.W. Prescott, George W. Prescott. It is the same man.) 15:48, 16:34, 17:12

--*Algae of the Western Great Lakes Area* 17:12

President's Award for Excellence 6:34

Price Waterhouse—financial statements 6:55, 6:62, 6:66-68

Prior, Dan 17:39

Properties

--Barden house 8:27, 17:34, 17:42

--Apple Island 8:28

--Beresford property (411 Lone Pine Rd) 8:29

--Edwards property, Oxford, MI 8:30

--Grace H. Flood Nature Chalet 8:31-33`

--Beresford farm (Metamora, MI) 8:34-37

--Schjolin property (127 Stoneybrook Lane) 8:38

--Ward property (Orchard Lake) 8:39-43 *see also* Cranbrook Nature Sanctuary

Proxmire, William 17:29

Public relations 2:16, 2:17, 2:18, 2:19

Public roads vs. non-public roads 16:45

Publication Committee policy 15:34

Publications 17:32

--catalogs and publication lists 8:44

--editor 15:38

--history 8:45

--instructions to authors 8:46

--meeting minutes 8:47

--quarterly reports 8:48

Purvis & Foster, Inc.—boiler 7:34

Quack, Douglas 17:13

Quarterly meeting minutes (Board of Governors/Trustees) 3:1-34, 4:1-25, 5:1-7

Quarton Lake 15:54, 17:23

Questar telescope 17:35

Races of Mankind exhibit 17:1, 17:14

Rachel McMasters Miller Hunt Botanical Library 15:43

Racial discrimination 17:26

Rainbows and Ice 7:22

Rattlesnake 17:15

--donation of 15:19

Redding, Richard—statement regarding renovation & expansion plans 14:58

Rediscovering our Great Lakes program 10:70

Redstone, Louis G. Associates, Inc. 17:15

Redwood tree sample 17:25

Reflecting pool 7:55
 Reiber, Edwin W.—exhibit models 15:49
 Renovation & expansion 2:15, 2:28, 6:12, 6:13, 6:78, 7:62, 14:1-61, 15:20, 15:22-23,
 15:29, 15:56-57, 18:1
 --Beresford farm (Metamora, MI) 8:34-37
 --Beresford property (411 Lone Pine Rd.) 8:29
 --exhibit planning 9:10, 9:17, 9:21-24, 9:28-29, 9:32, 9:34, 9:37, 9:49, 9:54, 9:68,
 10:11
 --New Institute committee 8:21, 14:37-39
 --Ward property (Orchard Lake) 8:39-43
Renovation & Expansion News & Views—newsletter 14:55
 Research
 -entomology 15:47
 --staff 16:19
 Research Associates
 --anthropology 11:6-7
 --botany 11:16-18, 11:20
 --geology, mineralogy, paleontology 11:62-68
 --zoology 11:75
 Research divisions
 --botany, origination papers 11:15
 Research grants
 --Public Health Service M-2050 11:71
 --Public Health Service M-1650 11:71
 Research proposals
 --bacterial contamination (C-5148) 12:1
 --ecological impact study 12:5
 --eutrophication of inland lakes 12:4
 --leptopel proposal to Federal Water Quality Administration 12:15
 Research reports
 --anthropology 11:8
 --botany 11:19
 --director 11:27
 --zoology 11:70, 11:76
 Research summaries 11:5
 Revegetation study, 1934 16:2
 Reynolds, Margaret 13:20
 Reynolds, Perry J. 17:14
 Riegle, Donald W. 17:29
 Ries, Don 16:2
 Roof repairs and maintenance 14:56
 Roth, Kathleen
 --correspondence 17:15
 --President's Award for Excellence 6:34
 Rowland, Levi P.
 --correspondence 17:16

--Rowland mineral collection 15:26, 15:29, 16:39, 17:16
Royal Ontario Museum 15:17, 17:14
Ruthven, Alexander 16:2, 17:14

Saarinen, Eliel

--architectural drawing, CIS, 1936 15:8, 15:10
--funeral 16:22
Saarinen House—furniture 15:10
Saarinen Memorial Exhibition 15:7
Saginaw Bay (EPA project #R802685) 12:56-59, 13:1-3
Saginaw Bay (EPA project #R804442) 13:1-3
San Diego Museum of Natural History 9:67
Sandoe, Robert 15:39, 15:55
Sanilac petroglyphs 15:17, 16:12
Satellite tower proposal 7:63
Sax, Hally Jolivette 6:31, 17:11
Sax, Karl 6:31, 16:24, 17:11, 17:18
Schaefer, Martha 2:23
Schjolin property
--Maja Schjolin Gardens/Schjolin Plant Conservation Garden 8:38, 11:26
--Schjolin Trust 8:38
School visits 10:71
Science 4 program 10:72
Science and Math Newsletter 10:60
Science Club 10:73
Science Collection exhibit 15:8
Science education funding 15:21, 16:7, 16:49
Science Explorer Camp 10:74
Science Hands-On! 10:75
Science is Everywhere 10:76
Science on the Move 10:41, 10:51-55
Science Museum (television show) 10:77
Science Museum (Center) Task Force 10:51-55
Science Theater exhibit 9:68
Security issues 7:57, 7:60-61
--Japanese art theft 7:60
Security system 15:19
Sederburg, William A. 16:49
Seeding-on experiments 12:39, 13:36, 13:53-54
Sendther, Michael 17:17
Senior citizen programs 10:78
Sepeshy, Zoltan 15:8, 15:32, 16:7, 17:44
Serotkin, Senator David 16:49
Sfire, Robert R. and Associates, Inc. 8:35
Shape of Mathematics exhibit 9:69

C.W. Shaver & Co.—feasibility study 14:14
 Shell collection 9:69A, 17:17
 Shepard, Douglas 12:17
 Shoshani, Jeheskel (Hezy) 11:62-68
 Shurtleff collection—Indian quill boxes 15:46
 Shurtleff, Mary 17:20, 17:41
 Silver and Ice 7:23
 Sinclair dinosaur 15:64
 Skillman Foundation 17:18-19
 --Up with Science exhibit 10:8
 --educational funding 10:39-41
 Skillman Wing 15:17, 15:19, 15:54, 16:35, 17:18-19
 --air conditioning contracts & specs 7:32
 --construction 7:37-38
 --landscaping 16:7
 Skramstad, Hal 15:21
 Slade, Roy 15:7
 Slater, John 12:33, 12:37-38, 12:43-45, 12:47
 --manuscripts 12:43
 Slawson, Chester 17:21
 Smith, V. Elliot 12:1, 12:4-6, 12:17-19, 12:51-59, 13:1-7, 13:15-16, 13:18
 Smith, Wilber and Associates, Inc. 7:52
 Smithsonian at Cranbrook 7:13
 Smithsonian Institution 15:52
 --correspondence 17:22
 --loans from 17:22
 --regional event series 17:22
 --traveling exhibition service 17:22
 Society for Pennsylvania Archaeology 17:8
 Society of Vertebrate Paleontology (SVP) 11:51-52
 Sodon Lake 12:27-46, 13:74-92, 15:48, 16:23, 17:1
 Sogdon Lake 13:93-99
 Soil investigation—renovation & expansion project 14:57
 Solar Energy exhibit 9:70
 Solar system display 15:45
 Space/Defense Corporation 7:42, 15:24, 15:61, 15:64, 16:13, 16:24, 17:18, 17:43-44 *see also* Comar Corporation
 Spangler, James and Patricia 8:36-37
 Speakeasy: Communicating in the '80s exhibit 9:71, 15:46
 Spencer Lens Company 17:17
 Spiders! exhibit 9:72, 10:1
 Spilhaus Space Clock 16:7
 Spitz Laboratories, Inc. 17:17
 Spitz Planetarium--CIS 15:30, 15:37, 16:23, 16:34, 16:53 *see also* McMath Planetarium
 Spitz projector 17:17
 Spoehr, Jack 17:17

Sport exhibit 10:2
Stabler, L. Brook 15:55
Stackpole, Stephen M. 17:17-18, 17:20
Staff
 --lists 8:23
 --meeting minutes 8:24
 --memos (work week reduced) 16:22
Stalker & Boos, Inc., Appraisers 6:36, 17:19
Stanley, George 16:39
Starlab 10:78A
Stars and Ice 7:24
Statement of purpose *see* Mission statement
STEAM grant 10:32
Stearns, Frederick collection—Hall of Man 15:59
Steere, William Campbell 6:33, 17:11
Steering committee 2:15
Stegosaurus 16:30, 17:39
 --restoration 15:34
Step Out for Science 7:14
Stevens, William O. 15:40
Stoll, Albert 17:33
Stories in Hair and Fur exhibit 10:3, 16:19, 17:22
Stoutamire, Warren 2:41
Strategic position statement *see* Mission statement
Stroh Brewery Foundation 10:72
Stroud, Joe—resignation from Board of Governors 8:42
Structures exhibit 10:4
Struthiomimus (ostrich dinosaur) 15:64
Subcommittee on Natural Resources, Agricultural Research and Energy 13:12
Suitcase exhibits 10:6
Summer Science Camp 10:78
Summer Spectacular 7:16
Summit Place Mall Excavation 11:68
Sunday Brunch Lecture Series 10:80
Sundial 15:61
Surface of the Sun exhibit 10:5
Survival training campout 17:5
Suter, Norman S. & Co.—air conditioning 7:33
Sutton, George 17:17
Swainson, Governor John B. 16:24
Swans 15:54
Swanson, J. Robert F. 17:17
Swedish royal family 15:11

Tamarack Way 15:30-31

Tamblin and Brown, Inc. 17:24
 Taubman property purchase 7:53
 Tax exempt status 2:54
 Taxidermy 15:47, 16:22, 16:29
 Teacher training proposal 10:81
 Teeple Hill Lake 13:100
 Telescope
 --CIS 16:26, 16:54
 --Cranbrook School 15:39
 Television show (Science Museum) 10:77
 Temperature—lake 12:40-44
 Texaco 11:28-29
This Changing Earth 15:45
 Thompson, Dr. John Eric S. 17:24
 Thompson, Paul W. 11:14, 11:18, 11:20-21, 12:9
 Thornlea Composarium 17:41
 Tibet House Emporium 17:43
 Tibetan collection 17:24
Time Traveler radio show 16:13, 17:43
 TMP Associates 14:59
 Tobin, Frank J.—taxidermist 16:22
 Todd, Anne Ophelia 17:23
 Toplis & Harding, Inc. Adjustors & Surveyors 7:60
 Tordrup, Viggo—Tordrup Report 17:23
 Tornell, Charles—exhibit models 17:23
 Touche Ross study 14:5
 Tracy, J. Edwards 16:22
 Traveling exhibits 10:6, 16:50, 17:43
 Treasures and Ice 7:25
 Tree care 17:42
 Tribhuvan University Natural History Museum 11:28-29
 Triton Pool *see* Academy of Art
 Troy Historical Society 17:24
 Truman, President Harry S. 16:54
 Trustees/Board of Governors 15:26, 15:29
 --appointments to 15:28
 --committees 2:12-45
 --correspondence 15:28
 --directories 5:8
 --quarterly meeting minutes 3:1-34, 4:1-25, 5:1-7
 --role within CIS 15:23
 Trust indentures 2:54
 Turtle Lake 15:31
 TV antenna/satellite proposal 7:63
 20th Century Dinosaurs exhibit 10:7, 15:34
 Tyrone farm *see* Beresford farm (Metamora, MI)

Tyrrell, W. Bryant 17:25

Udall, Stewart L. 17:26

Ultraviolet light—museum preservation issues 8:1

Uni-Science program 10:82

Unisys Corporation 10:82

United Foundation 15:64

United Nations Educational, Scientific and Cultural Organization (UNESCO) 17:27

United States Coast Guard 17:26

United States Department of the Interior 15:27

United States Department of State 17:28

United States Senate and Congress 17:29

University collaborative 10:83

University Publishers 16:24, 16:41, 16:53, 17:30

Up With Science exhibit and program 10:8, 10:85

Upkeep report 6:37-41

Vaillant, G.E. 16:23

Van Rennes, Eve

--computer education 10:18

Van Tyne, Josselyn 15:47, 16:2, 16:23, 17:32

Vanden Berghe, Dr. Louis 17:31

Vander Kloot family land 15:46

Vaughn School (Bloomfield Hills School) 16:23

Vegetation—lake 12:20, 12:24-25, 12:45, 12:48, 12:50, 13:91-92

Vehicles 8:4-5

Verdoorn, Frans 6:21, 17:11, 17:31

Vianna, F. Segadas 12:2-3, 12:24-25, 12:48, 12:50

Viking Fund 17:31

Vision statement *see* Mission statement

Vivarium (animal house) 16:2

Voegelin, Dr. Karl 17:31

Vogt, William 6:23, 17:11

Volcano expedition—Portugal 16:40

Volcano Research Committee 16:24

Volunteers & docents 8:25-26

--President's Volunteer Action Award 16:30

--Volunteer newsletter 8:26

Von Schoeler, Baron Walram V. 16:22-23

Waldon, Sidney D. 15:47

Walker Art Center 17:33

Wallace, Harry L. 17:33-34
 Walnut Lake 12:38
 Walpole, B.A. 16:23, 17:34
 Wankel Engine exhibit 10:9, 15:19
 Ward, Harold Lee 8:39-40, 15:29, 17:33
 --mound site 17:9
 Ward property *see* Cranbrook Nature Sanctuary
 Wards Natural Science Establishment, Inc. 17:36
 Warren Astronomical Society 17:15
 Warrick, Frederick T. 17:35
 Washington, D.C. 13:12
 --State of Michigan Office 13:13
 Water quality analysis at CIS (tap water) 16:40
 Water supply 17:17
 Water Wonders exhibit 10:10
 Waterman, Warren 17:33
 Waterworks exhibit 10:11
 Wayne State University 16:22
 --correspondence 17:37
 --graduate biology courses 16:2
 --professional relationship with CIS 17:37
 --Science Museum television show 10:77, 17:37
 Weather balloon 16:42
 Weather exhibit 10:12
 Week at Cranbrook Institute of Science program 10:26, 15:31
 Wells, James R. 11:22-26, 12:9, 12:15, 17:38
 West, Joy 17:33
 West, Robert M. 11:28-61, 15:21-23
 --conferences 11:58
 --conference proceedings, abstracts and book reviews 11:44
 --correspondence 17:39
 --GLC 11:59-60
 --manuscripts 11:57
 --published works 11:30-43
 --resume 17:39
 --SVP 11:61
 Whales exhibit 10:13
 What in the World.....? exhibit 10:13A
 What Makes Music? exhibit 10:14
 Wherry, Edgar T. 6:30, 17:11
 White, Amelia Elizabeth 17:33
 White, Elizabeth L. 15:33
 White, Lee A. 17:33-34
 Whittemore, W. Nelson 17:34
 Williams, Governor G. Mennen 16:24
 Williams, Norton 17:35

Williams, Thomas A. 17:35
Williams, Tod 15:22
Windsor, University of 17:35
Wing Lake 12:28
Winnebago [Indian] audio recordings 17:31
Wint, Dennis 15:20
 --Academy of Art 15:7
 --correspondence 17:40-41
 --director appointment announcement 17:15
 --files pertaining to renovation & expansion projects 14:60
 --meetings with Dan Martin 16:44-45
 --research 11:3, 13:11-15, 13:17
 --resume 17:41
Winterfest ice sculpture 15:11
Winterscape 7:26
Wittliff, Arthur 15:16, 15:30, 15:54
 --correspondence 17:42
Wittry, Warren
 --correspondence 13:31, 13:35, 17:43-44
 --research 11:1, 12:5, 12:21-23, 12:49
Women's educational programs 10:27
Wood, Elizabeth S. 16:2
Wood, James 15:47, 17:33
Wood turtle 11:72
Woodward Avenue access 7:53-54, 14:61, 15:21
Woodward, J. Daniel 17:34
Works Progress Administration 16:22, 16:39
World of Illusion exhibit 15:46
WTVS Channel 56 7:63, 15:61, 16:24
WWJ-TV Channel 4 10:77
WXYZ TV 10:12

YMCA 17:45

Yntema, Theodore 17:42, 17:45
Yorke, Roger 17:45
Yosemite Field School 16:52
Your Heritage House 10:86
Youth Alive 10:87
Yucatan field trip 15:42, 16:22

Zoology exhibit 16:18

Zoology program 16:2, 16:35
Zuidema, Edward 16:5
Zuidema, Henry—gift of original edition of Darwin's *Origin of the Species* 17:46

Zurel, Richard 11:6, 15:34

Index to Published Works and Manuscripts by Author

Bicknell, Alice

--The Occurrence of a Green Sulphur Bacterium in Sodon Lake. ms. (1949)
12:30

Bunt, Floyd Walter

--Pollen Analytic Study of Post-Glacial Sediments at Heart Lake. ms. (1948) 12:8

Cain, Stanley

--The 1949 Temperature Regime of Sodon Lake Waters. ms. (1949) 12:44

--Aceretum rubri : the Red Maple Swamp Forest of Central Long Island. *The American Midland Naturalist* (1938) 11:10

--Characteristics of Natural Areas and Factors in Their Development. *Ecological Monographs*. (1947) 11:10

--An Ecologist's View of the Population-Natural Resources Problem. ms. (1949)
11:12

--Mollusks of Sodon Lake, Oakland County, Michigan. II. The Winter Occurrence of Certain Species. ms. (1949) 12:32

--Mollusks of Sodon Lake, Oakland County, Michigan. I. Stratigraphic Occurrence of Shells in Peat and Marl Sediments. ms. (1949) 12:32

--Natural Resources and Population Pressures. ms. (1949) 11:13

--Palynological Studies at Sodon Lake: I. Size-Frequency Study of Fossil Spruce Pollen. *Science* 108(2796). (1948) 12:37

--Palynological Studies at Sodon Lake. II. Size-Frequency Studies of Pine Pollen, Fossil and Modern. *American Journal of Botany* 35(9). (1948) 12:37

--Palynological Studies at Sodon Lake, Michigan. Part III. The Sequence of Pollen Spectra, Profile I. *Ecology* 29(4). (1948) 12:37

--Plants and Vegetation as Exhaustible Resources. *The Scientific Monthly*. (1949)
11:10

--Size-Frequency Characteristics of Pinus Echinata Pollen. *The Botanical Gazette*. (1948) 11:10

Dice, Lee

--Relation of Fertility to Religious Affiliation and to Church Attendance in Ann Arbor, Michigan, 1951-54. *Eugenics Quarterly* 12(2). (1965) 11:74

Newcombe, Curtis

--An Analysis of Certain Dimensional Relationships of the Virginia Oyster *Crassostrea Virginica* (Gmelin). ms. (1948) 11:10

--An Analysis of the Vertical Distribution of Temperature in a Dichothermic Lake of Southeastern Michigan. *Ecology* 30(4). (1949) 12:44

--An Application of the Allometry Equation to the Study of Growth in *Callinectes sapidus* Rathbun. ms. (1948) 11:10

--Attachment Materials in Relation to Water Productivity. *Transactions of the American Microscopical Society* LXVIII(4). (1949) 12:46

--A Method For Studying Growth in Different Groups of Arthropods. ms. (1949) 11:73

--Observations on the Conditions of Existence of a Green Sulphur Bacterium in Sodon Lake, Southeastern Michigan. *Transactions of the American Microscopical Society* LXIX(2). (1950) 12:30

--The Occurrence of Temperatures Unusual to American Lakes. ms. (1948) 12:43

--A Quantitative Study of Attachment Materials in Sodon Lake, Michigan. *Ecology* 31(2). (1950) 12:46

--A Study of Plankton Analysis Technique with the Sedgeick-Rafter Cell. ms. (1947) 12:36

--Temperature Characteristics of Sodon Lake. A Dichothermic Lake in Southeastern Michigan. *Hydrobiologia* 1(4). (1949) 12:44

--Weights of the Commercial Meats and Other Body Parts of the Chesapeake Blue Crab. ms. (1949) 11:73

Slater, John

--Observations on the Temperature Conditions of Sodon Lake, Oakland County, Michigan (Paper presented before the Michigan Academy of Science, Arts and Letters, April 2, 1948). ms. 12:43

--The Stratification of Sodon Lake in Respect to Certain Physical and Chemical Factors (Paper presented before the Michigan Academy of Science, Arts and Letters, April 2, 1948). ms. 12:43

West, Robert

- 1991 Survey: State Regulations of Geological, Paleontological, and Archaeological Collection. ms. (1991) 11:57
- Antemolar Dentitions of the Paleocene Apatemyid Insectivorans *Jepsenella* and *Labidolemur*. *Journal of Mammalogy* 54 (1). (1973) 11:30
- Apparent Prolonged Evolutionary Stasis in the Middle Eocene Hoofed Mammal *Hyopsodus*. *Paleobiology* 5(3). (1979) 11:32
- Arctic Terrestrial Biota: Paleomagnetic Evidence of Age Disparity with Mid-Northern Latitudes During the Late Cretaceous and Early Tertiary. *Science* 221. (1983) 11:36
- An Early Middle Eocene Epoicotheriid (Mammalia) from Southwestern Wyoming. *Journal of Paleontology* 47(5). (1973) 11:30
- Eocene (Wasatchian through Duchesnean) Biochronology of North America, in Cenozoic Mammals of North America. University of California Press. (1986?) 11:37
- Endangered and Orphaned Natural History and Anthropology Collections in the United States and Canada. *Collection Forum* 4(2). (1988) 11:47
- Geology and Paleontology of the Bridger Formation, Southern Green River Basin, Southwestern Wyoming, Part 5. *Harpagolestes macrocephalus* and Comments on Structure, Function and Diversity of Middle Eocene to Early Oligocene Large Mesonychids. *Contributions in Biology and Geology* 43. (1981) 11:35
- Geology and Paleontology of the Bridger Formation, Southern Green River Basin, Southwestern Wyoming. Part 6. The Fauna and Correlation of Bridger E. *Contributions in Biology and Geology* 46. (1981) 11:35
- Geology and Vertebrate-Fossil Localities, Tertiary Continental Rocks, Kala Chitta Hills, Attock District, Pakistan. *Contributions in Biology and Geology* 26. (1979) 11:33
- Insectivora of the Miocene Daud Khel Local Fauna, Mianwali District, Pakistan. *Contributions in Biology and Geology* 38, 1980, 11:34
- A Minute New Species of *Dorcatherium* (Tragulidae, Mammalia) from the Chinji Formation Near Daud Khel, Mianwali District, Pakistan. *Contributions in Biology and Geology* 33. (1980) 11:34
- Neogene Stratigraphy of the Daud Khel Area, Mianwali District, Pakistan. *Contributions in Biology and Geology* 23. (1979) 11:33

- Neogene Vertebrate Paleontology and Stratigraphy of Nepal. *Journal of Nepal Geological Society* 1(1). (1981) 11:35
- New fossil discoveries from the Miocene of Nepal include a hominoid, *Nature* 303(5915). (1983) 11:36
- A New Late Paleocene Phenacodont (mammalia : Condylarthra) from Western Colorado *Breviora Museum of Comparative Zoology* 403. (1973) 11:30
- New North American Middle Eocene Nyctitheres (Mammalia Insectivora). *Journal of Paleontology* 48(5). (1974) 11:30
- The North American Phenacodontidae (Mammalia, Condylarthra). *Contributions in Biology and Geology* 6. (1976) 11:31
- Paleobiology and depositional setting of a Late Cretaceous vertebrate locality, Hell Creek Formation, McCone County, Montana. *Contributions to Geology* 18(2). (1980) 11:34
- Paleontology and geology of the Bridger Formation, Southern Green River Basin, Southwestern Wyoming, Part 1. History of Field Work and Geological Setting. *Contributions in Biology and Geology* 7. (1976) 11:31
- Paleontology and Geology of the Bridger Formation, Southern Green River Basin, Southwestern Wyoming, Part 2 The Bridgerian Insectivore *Entomolestes Grangeri*. *Contributions in Biology and Geology* 14. (1977) 11:32
- Paleontology and Geology of The Bridger Formation, Southern Green River Basin, Southwestern Wyoming, Part 3. Notes on *Hyopsodus*. *Contributions in Biology and Geology* 25. (1979) 11:33
- Paleontology and Geology of The Bridger Formation, Southern Green River Basin, Southwestern Wyoming. Part 4. The Geolabididae (Mammalia, Insectivora). *Contributions in Biology and Geology* 27. (1979) 11:33
- Paramys Wyomingensis*, a Small Rodent from the Middle Eocene of Wyoming. *Journal of Paleontology* 43(1). (1969) 11:50
- Sequence of Mammalian Faunas of Eocene Age in the Northern Green River Basin, Wyoming. *Journal of Paleontology* 44(1). (1970) 11:30
- The Sivaliks of Nepal: Recent Contributions to Vertebrate Paleontology and Biostratigraphy, Geology of Western Himalayas. *Contributions to Himalayan Geology* 3. (1985). 11:37
- South Asian Middle Eocene Moeritheres (Mammalia: Tethytheria), *Annals of Carnegie Museum* 52. (1983). 11:36

- State Regulation of Geological, Paleontological, and Archaeological Collection.
Curator 32(4). (1989) 11:54
- Upper Cretaceous and Paleogene Sedimentary Rocks, Eastern Canadian Arctic
and Related North Atlantic Areas. *Contributions in Biology and Geology*.
(1981) 11:35
- Upper Deciduous Dentition of the Oligocene Insectivore *Leptictis* (= *Ictops*)
Acutidens. *Annals of the Carnegie Museum* 44. (1972) 11:30
- Vertebrate Paleontology and the Cenozoic History of the North Atlantic Region.
Polarforschung 48(1/2). (1978) 11:32