

May 2009

## WALTHER M. BARNARD

### Summary

Walther M. Barnard is a professor in, and former chair of, the Department of Geosciences, SUNY College at Fredonia, and an affiliate faculty member of the Department of Geology, University of Hawaii at Hilo. He received his Ph. D. in Mineralogy from the Pennsylvania State University in 1965, and has been on the staff of the SUNY College at Fredonia since 1964.

Barnard's training, teaching, and research experiences are in mineralogy and geochemistry. Prior to 1971 his research involved high temperature geochemistry with emphasis on mineral synthesis; since 1971 his research efforts have been in environmental geochemistry and analytical methods in geochemistry. He has published 36 professional monographs and papers, 11 additional abstracts to oral presentations, and has contributed in another 7 in-house reports. He has compiled and edited a three-volume sourcebook on the history of exploration and eruptions of Mauna Loa Volcano, Hawaii (with the first two volumes updated and issued on CD-ROM), and authored a comprehensive book devoted to the Hawaiian island of Kaho'olawe (1996).

He has directed National Science Foundation Undergraduate Research Participation programs for four summers (1975-78) involving the environmental impact of coal ash disposal, and has been a co-investigator (June 1975-November 1977) on a U. S. ERDA project dealing with the same subject. During the summer of 1979 he served as the faculty adviser to a National Science Foundation Student-Originated Studies project involving arsenic distribution in Chautauqua County, New York; simultaneously he served as an investigator and adviser in projects investigating fluoride concentrations in potable waters of the county and comparison of heavy metal (Cd, Cu, Pb, Ni, Zn) contents of sludges generated in eleven sewage treatment plants in the county. During the summer of 1980 he was the faculty adviser on another NSF SOS project investigating the feasibility of land application of sewage sludges in Chautauqua County, and served as a faculty adviser to high school participants in a NSF Student Science Training Project.

Additionally, Barnard has been involved in research projects dealing with water quality of selected tributary streams in the Lake Erie drainage basin (1975), hydrogeochemistry of the major lakes of Chautauqua County (1975-76), comparative effectiveness of solutions for extracting arsenic from soil (1978), geochemistry of soils, ground water, rain and air particulates on the Island of Hawaii (1981-85), and trace metals in volcanic condensates of Kilauea volcano (1990).

Barnard has had five sabbatical leaves. He spent the spring semester in 1973 at the Analytical Methods Research Laboratory, Water Resources Division, U. S. Geological Survey, Federal Center, Denver, Colorado, where he evaluated the use of the heated graphite atomizer for the routine determination of trace metals in water. His autumn 1982 sabbatical at the University of Hawaii at Hilo was devoted to continuing the environmental baseline study of soil and ground water geochemistry begun in the summer of 1981. Most of his autumn 1994 was spent in Hawaii

finishing a draft of his Kaho`olawe book. A fourth sabbatical, during the spring 2002, was devoted to revising the first volume of his Mauna Loa trilogy and creating a CD-ROM of the text readable with Adobe Acrobat Reader. A fifth sabbatical in the spring 2009 was devoted to revising the third volume of the Mauna Loa trilogy, and producing all three volumes on a single CD-ROM.

Among his additional awards for environmentally related work are Lake Erie Environmental Studies Research Fellowships for the summers of 1972-1976 and 1978, a Research Foundation of SUNY Faculty Research Fellowship in 1973, and a number of grants-in-aid.

Barnard is a member of 33 professional societies, mostly with orientations in mineralogy, geochemistry, chemistry, soil science, and science education.

His interest in genealogy and family history has also resulted in publication of 53 articles (and another 7 pending publication), and, with senior compiler William A. Barnard, Barnard Global Name and Spouse indices (with updates).

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(716) 673-3841 (Office)  
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barnard@fredonia.edu (e-mail)

**Date and Place of Birth:** 30 May 1937 at Hartford, Connecticut

**Education:**

Trinity College, Hartford, CT, B. S. cum laude (Geology), 1959  
Dartmouth College, Hanover, NH, A. M. (Geology), 1961  
The Pennsylvania State University, State College, PA, Ph. D. (Mineralogy), 1965

**Experience:**

State University of New York College at Fredonia, Fredonia, NY  
Assistant Professor of Geology, Sept. 1964 - August 1970  
Associate Professor of Geology, Sept. 1970 - Sept. 1977  
Research Associate, Environmental Resources Center, May 1977 - May 1979  
Professor of Geology, October 1977 – present  
Acting Chair, Dept. of Geosciences, June 1986-Aug. 1987, Spring 1997, Spring 2006  
Chairperson, September 1987-Spring 1996  
University of Hawaii at Hilo, Hilo, HI

Visiting Scientist, initial appointment, 1 June 1982- 31 Dec. 1982  
Affiliate Professor (Non-Teaching) in Natural Sciences, initial appointment 1 Jan. 1995 –  
30 June 1997; continuing appointment

### **Courses Taught**

Mineralogy  
Minerals and Rocks  
Crystallography  
Geochemistry  
Aqueous Geochemistry  
Analytical Mineralogy and Geochemistry  
Physical Geology or Geology I  
Physical/General Geology Lab  
Geology and Man  
Geology of National Parks  
Earth Sciences  
Map Reading and Interpretation  
Weather and Climate  
Our Mineral Heritage  
Seminar in Geosciences  
Directed Study

### **Sabbatical Leaves**

Spring semester 1973, at Analytical Methods Research Laboratory, Water Resources  
Division, U. S. G. S., Federal Center, Denver, Colorado

Autumn semester 1982, at Chemistry and Geology Discipline, University of Hawaii at  
Hilo; held appointment as Visiting Colleague

Autumn semester 1994, at Dept. of Geology, University of Hawaii at Hilo

Spring semester 2002, at Dept. of Geology, University of Hawaii at Hilo

Spring semester 2009, at SUNY Fredonia

### **Participation in Programs, Institutes**

National Science Foundation Geology of the Southern Canadian Rockies Field  
Conference, Summer 1968

Wright State University - Air Force Nuclear Engineering Center Short Course on Neutron Activation Analysis, Summer 1969

National Science Foundation supported Summer Institute in Instrumental Methods of Analysis for College Teachers at Rensselaer Polytechnic Institute, 21 June - 13 Aug. 1971

N. S. F. - U. S. A. E. C. sponsored Short Course on Isotopic Neutron Sources at Oak Ridge, TN, 16 Aug. - 3 Sept. 1971

Hydrology and Water Resources Evaluation Workshop, Ohio University, 13 June - 1 July 1983

### **Consulting**

U. S. Army Corps of Engineers' program for monitoring water quality of selected tributary streams in the Lake Erie drainage basin (1975)

Evaluation of Niagara Mohawk Power Corporation's proposed Lake Erie Generating Station site (1976)

Cellumor Corp., Pittston, PA: mineralogical and chemical analyses (1977)

State of Hawaii Dept. of Planning and Economic Development: geochemical baseline studies of soils and ground water (1981-83)

Dunn Geoscience, Dinsbier Road Inactive County Landfill, Town of Chautauqua, Chautauqua County, report review and contribution (1986)

### **Memberships in Professional Societies (continued active membership since date given):**

Life Member, American Association for the Advancement of Science (1967)

Member, American Association of University Professors (1966)

Member, American Chemical Society (1976)

Life Member, American Geophysical Union (1971)

Life Fellow, The American Institute of Chemists (Fellow, 1971; Life Fellow, 1977)

Associate Member, American Meteorological Society (1983)

Member, American Society of Agronomy (1977)

Member, American Society for Testing and Materials (1970)

Member, Canadian Society of Soil Science (1978)

Member, Crop Science Society of America (1977)

Fellow, The Explorers Club (1979)

Member, Federation of American Scientists (1976)

Member, Geochemical Society (1959)

Member, The Geochemical Society of Japan (1971)  
Fellow, Geological Association of Canada (1970)  
Fellow, Geological Society of America (Member, 1967; Fellow, 1979)  
Member, International Association for Great Lakes Research (1978)  
Member, International Association of Geochemistry and Cosmochemistry (1970)  
Member, International Association of Theoretical and Applied Limnology (1973)  
Member, International Society of Soil Science (1977)  
Life Member, Mineralogical Association of Canada (Member, 1964; Life Member, 1968)  
Life Member, Mineralogical Society (London) (Member, 1968; Life Member, 1972)  
Life Member, Mineralogical Society of America (Member, 1959; Life Member, 1978)  
Member, National Association of Geology Teachers (1966)  
Member, National Earth Science Teachers Association (1984)  
Member, National Water Well Association (1979)  
Life Member, New York Academy of Sciences (1968)  
Member, Society for Applied Spectroscopy (1968)  
Life Member, the Society for Environmental Geochemistry and Health (Member, 1972; First Life Member, 1972)  
Member, Society of College Science Teachers (1983)  
Life Member, The Society of the Sigma Xi (Member, 1970; Life Member, 1980)  
Member, Soil Science Society of America (1977)

**Listed in:**

*American Men of Science*, 11th ed., Supplement 4, 1968; *American Men and Women of Science*, 12th-18th ed., 1971-93  
*Who's Who In The East*, 15th through 22nd ed., 1975-1990; 25th ed., 1995  
*Who's Who In America*, 46th-49th eds., 1990-95  
*Dictionary of International Biography*, v. 12, 1975-76  
*Community Leaders and Noteworthy Americans*, 1975-76 ed.  
*Notable Americans of the Bicentennial Era*, 1976 ed.; *Notable Americans of 1976-77*  
Note: also included in more recent editions of some of the above

**Research Grants and Fellowships:**

Grants-in-aid, Research Foundation of SUNY, Autumn 1964, Autumn 1966, Autumn 1969, Autumn 1972

Research Grant, Research Corporation, Autumn 1965

Summer Research Fellowship, Foundation of the State University College at Fredonia, Summer 1965

Faculty Research Fellowships, Research Foundation of SUNY, Summer 1966, Summer 1970, Summer 1973

Lake Erie Environmental Studies/Environmental Resources Center Research Fellowships,  
Summers 1972-1976, 1978

Director, National Science Foundation Undergraduate Research Participation Programs,  
Summers 1975-1978

Co-investigator, U. S. Energy and Resources Development Agency Grant, June 1975 -  
November 1977

Faculty Project Adviser, National Science Foundation Student Originated Studies Programs,  
Summer 1979 (David M. Taylor, student project director) and Summer 1980 (Timothy J.  
Bender, student project director)

Faculty participant, Research grant from U. S. Dept. of Energy to Nuclear Science and  
Technology Facility at State University of New York at Buffalo, Autumn 1980

Associate Investigator, Research grants funded by State of Hawaii Department of Planning  
and Economic Development, July 1981 - June 1983

Matching Equipment Grant, "Acquisition of Dionex 2010i Ion Chromatograph", Research  
Foundation of State University of New York, March 1985-June 1986

Research mini-grant, "Hawaiian Geochemistry", Committee on Research and Creativity, State  
University of New York College at Fredonia, May 1985

Grant Proposal Development Award, Office of Sponsored Research, State University of New  
York College at Fredonia, June 1985

Matching Equipment Grant, "Acquisition of Beckman Spectra-Span V Direct Current Plasma  
Emission Spectrometer", Research Foundation of State University of New York, March  
1986-May 1987

Research mini-grant, "Geochemistry of Thermal Areas on Kilauea and Mauna Loa  
Volcanoes", Committee on Research and Creativity, State University of New York College  
at Fredonia, May 1986

Research mini-grant, "A Baseline Study of Atmospheric Geochemistry and Meteorological/  
Climatological Characteristics in the Kawaihae and Panaewa Areas on the Island of  
Hawaii: Data Analysis, Interpretation, and Report Writing": Committee on Research and  
Creativity, State University of New York College at Fredonia, May 1987

Associate Investigator, "Development of a Water Supply Research Program at SUNY  
Fredonia: Initiation of a one year project investigating use of porous materials as a landfill

leachate filter": Research Foundation of State University of New York, September 1987-March 1988

Collaborative Visiting Professor Research Grant, "Geochemistry of Fumarolic Condensates and Sublimates of Kilauea Volcano, Hawaii", SUNY at Buffalo, November 1987-March 1989

### **Publications: Monographs**

Barnard, W. M., ed., 1981, *Feasibility of Land Application of Sewage Sludges in Chautauqua County, New York*: Chautauqua County Department of Planning and Development, Mayville, NY, 146 p.

Halbig, J. B., Barnard, W. M., Johnston, S. E., Butts, R. A., and Bartlett, S. A., 1985, *A Baseline Study of Soil Geochemistry in Selected Areas on the Island of Hawaii*: Department of Planning and Economic Development, State of Hawaii, Honolulu, HI, 60 + vii p.

Halbig, J. B., Barnard, W. M., Bartlett, S. A., Overfield, R. W., and Abbott, L. L., 1986, *A Baseline Study of Ground Water Geochemistry in the Kawaihae and Hilo Areas on the Island of Hawaii*: Department of Planning and Economic Development, State of Hawaii, Honolulu, HI, 74 + vi p.

Barnard, W. M., ed., 1990, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 1, From 1778-1907*: privately published, xv + 353 p.

Barnard, W. M., ed., 1991, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 2, The Early HVO and Jaggar Years (1912-1940)*: privately published, xvii + 452 p.

Barnard, W. M., ed., 1992, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 3, The Post-Jaggar Years (1940-1991)*: privately published, xvii + 373 p.

Halbig, J. B., Barnard, W. M., Bartlett, S. A., and Duce, R. A., 1994, *A Baseline Study of Weather, Climate and Atmospheric Geochemistry in the Kawaihae and Hilo Areas on the Island of Hawaii*: Department of Business, Economic Development & Tourism, State of Hawaii, Honolulu, HI, 134 + x p.

Barnard, W. M., 1996, *KAHO`OLAWA*: privately published, xiii + 269 p. (Published on CD in 2004)

Barnard, W. M., 1996, *MAUNA LOA--A Potpourri of Anecdotes*: privately published, ix + 115 p.

Barnard, W. M., ed., Revised 2002, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 1, From 1778-1907*: privately published on CD-ROM, xii + 382 p.

Barnard, W. M., Revised 2003, *MAUNA LOA--A Potpourri of Anecdotes*: privately published on CD-ROM, viii + 174 p.

Barnard, W. M., ed., Revised 2004, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 2, The Early HVO and Jaggar Years (1912-1940)*: privately published on CD-ROM, xiv + 462 p.

Barnard, W. M., ed., Revised 2009, *Mauna Loa--A Sourcebook; Historical Eruptions and Exploration, vol. 3, The Post-Jaggar Years (1940-2009)*: privately published, 476 p. +

Barnard, W. M., Revised 2009, *MAUNA LOA--A Potpourri of Anecdotes*: privately published on CD-ROM, ca. 197 p.

### **Publications: Papers, Reviews, and Memorials**

Barnard, W. M., 1963, Uranium content of syenite-1, in Ingamells, C. O., and Suhr, N. H., 1963, Chemical and spectrochemical analysis of standard silicate samples: *Geochimica et Cosmochimica Acta*, v. 27, p. 897-910.

Wright, H. D., Barnard, W. M., and Halbig, J. B., 1965, Solid solution in the systems ZnS-ZnSe and PbS-PbSe at 300 degrees C. and above: *American Mineralogist*, v. 50, p. 1802-1815. Abstract also in *Economic Geology*, v. 59, p. 1424.

Barnard, W. M., and Christopher, P. A., 1966a, Hydrothermal synthesis of chalcopyrite: chalcopyrite: *Economic Geology*, v. 61, p. 897-902.

Barnard, W. M., and Christopher, P. A., 1966b, Further study on the effectiveness of aqueous solutions in the hydrothermal synthesis of chalcopyrite: *Economic Geology*, v. 61, p. 1287-1290.

Barnard, W. M., 1967, Synthesis of pyrite from chloride-bearing solutions: *Economic Geology*, v. 62, p. 138-141.

Dingley, David, and Barnard, W. M., 1967a, The stoichiometry of copper sulfide formed in an introductory laboratory exercise: *Journal of Chemical Education*, v. 44, p. 242. Also published in *Modern Experiments for College Chemistry*, Serial Publication of the Advisory Council on College Chemistry, no. 27, p. 2, 1967.

Dingley, David, and Barnard, W. M., 1967b, The stoichiometry of sulfides: Experiments for the introductory laboratory: *Journal of Chemical Education*, v. 44, p. 693-694.

- Metzger, W. J., and Barnard, W. M., 1968, Transformation of aragonite to calcite under hydrothermal conditions: *American Mineralogist*, v. 53, p. 295-300.
- Connelly, J. J., and Barnard, W. M., 1968, Microwave diffraction - a teaching analogue for x-ray diffraction: *Journal of Geological Education*, v. 16, p. 95-98.
- Barnard, W. M., 1969, Recently published guide books to mineral collecting localities in North America: *American Mineralogist*, v. 54, p. 1743-1746.
- Barnard, W. M., 1970, Memorial of Harold Douglas Wright: *American Mineralogist*, v. 55, p. 614-619.
- Barnard, W. M., 1971, Book review of the *Mineralogy of Pennsylvania 1922-1965* by Arthur Montgomery: *American Mineralogist*, v. 56, p. 364.
- Bates, T. F., and Barnard, W. M., 1972, Memorial to Harold Douglas Wright (1921-1969): Geological Society of America, memorial separate; also Geological Society of America, *Memorials*, v. 1.
- Barnard, W. M., and Fishman, M. J., 1973, Evaluation of the use of the heated graphite atomizer for the routine determination of trace determination metals in water: *Atomic Absorption Newsletter*, v. 12, p. 118-124; abstract also in *Society for Applied Spectroscopy*, M. J., Spectroscopy, 15th annual Rocky Mountain Spectroscopy Conference, August 20-21, 1973, Denver, Colorado.
- Corbin, D. R., and Barnard, W. M., 1976, Atomic absorption spectrophotometric determination of arsenic and selenium in water by hydride generation: *Atomic Absorption Newsletter*, v. 15, p. 116-120; abstract also in *Society for Applied Spectroscopy*, 18th annual Rocky Mountain Spectroscopy Conference Program, August 2-3, 1976, Denver, Colorado.
- Mayer, J. R., Barnard, W. M., Metzger, W. J., Storch, T. A., Erlandson, T. A., Luensman, J. R., Nicholson, S. A., and Smith, R. T., Chautauqua Lake - watershed and lake basins, in Bloomfield, J. A., ed., 1978, *Lakes of New York State*, v. 2, *Ecology of the Lakes of Western New York*: Academic Press, New York, p. 1-103.
- Storch, T. A., Barnard, W. M., and Metzger, W. J., 1978, The relationship between phosphorous loading and phytoplankton standing crops in Chautauqua Lake, New York: *International Association of Theoretical and Applied Limnology, Proceedings of XX Congress*, Copenhagen, Denmark, v. 20, p. 490-495.

- Johnston, S. E., and Barnard, W. M., 1979, Comparative effectiveness of fourteen solutions for extracting arsenic from four western New York soils: *Soil Science Society of America Journal*, v. 43, p. 305-308.
- Fargo, T. R., and Barnard, W. M., 1979, Fluoride in potable waters of Chautauqua County, New York: Health Review, Special Edition Sept. 1979, Chautauqua County (New York) Department of Health, p. vi-28.
- Taylor, D. M., and Barnard, W. M., 1980, A National Science Foundation Student-Originated Studies Project: *Jour. College Science Teaching*, v. 9, p. 269-271.
- Bender, T. J., and Barnard, W. M., 1981, Land application of wastewater sludges: A National Science Foundation Student-Originated Studies project: *Jour. College Science Teaching*, v. 11, p. 108-110.
- Barnard, W. M., and Halbig, J. B., 1985a, Rare earth elements in selected soils on the Island of Hawaii: *Pacific Science*, v. 39, p. 241-260.
- Barnard, W. M., and Halbig, J. B., 1985b, Total and non-residual concentrations of selected metals in two soil series on the Island of Hawaii: *Pacific Science*, v. 39, p. 321-337.
- Barnard, W. M., and Halbig, J. B., 1988, Non-residual metals in selected soils of agricultural importance in the Puna and South Hilo Districts, Island of Hawaii *Journal for Hawaiian & Pacific Agriculture* v. 1, p. 21-30.
- Barnard, W. M., Halbig, J. B., and Fountain, J. C., 1990, Geochemical study of fumarolic condensates from Kilauea Volcano, Hawaii: *Pacific Science*, v. 44, p. 197-206.
- Barnard, W. M., 1991, Earliest ascents of Mauna Loa Volcano, Hawai`i: *The Hawaiian Journal of History*, v. 25, p. 53-70.
- Barnard, W. M., 1995, Mauna Loa Volcano: Historical Eruptions, Exploration, and Observations (1779-1910): p. 1-19 in *Mauna Loa Revealed: Structure, Composition, History, and Hazards* (American Geophysical Union monograph #92), edited by Rhodes, J. M., and Lockwood, J. P., 1995, American Geophysical Union, Washington, DC.

### **Publications: Abstracts and Oral Presentations**

- Wright, H. D., Hutta, J. J., and Barnard, W. M., 1963, Incorporation of some trace elements by hydrothermally synthesized galena and sphalerite (Abstract): *Economic Geology*, v. 58, p. 1192-1193; Geological Society of America, Program 1963 Annual Meetings, p. 181A-182A.

- Barnard, W. M., 1965, Solubilities of selected chalcophile elements in hydrothermally synthesized beta-ZnS (Sphalerite) (Abstract): Dissertation Abstracts, v. 26, no. 4.
- Barnard, W. M., Pazdersky, G. J., Schneider, H. I., and Lubelski, M. A., 1973, Geochemistry of tributaries of Chautauqua Lake, Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 8th Annual Meeting, p. 135-136.
- Barnard, W. M., Schneider, H. I., and Robinson, S. L., 1974, Relationships of specific conductance to chemical constituents in the Chautauqua Lake watershed, Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 9th Annual Meeting, p. 4.
- Barnard, W. M., Suib, S. L., Leetaru, H. E., and Campbell, M. A., 1975, Relationships among discharge, specific conductance, and chemical constituents in tributaries of Chautauqua Lake, Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 10th Annual Meeting, p. 24-25.
- Barnard, W. M., Corbin, D. R., Leetaru, H. E., and Suib, S. L., 1976, Comparative geochemistry of six lakes in Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 11th Annual Meeting and Southeastern Section, 25th Annual Meeting, p. 126-127.
- Harriger, T. L., Barnard, W. M., and Corbin, D. R., 1977, Impact on water quality by a coal ash landfill in northcentral Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 12th Annual Meeting, p. 272.
- Harriger, T. L., Barnard, W. M., Corbin, D. R., and Watroba, D. A., 1977, Impact of a coal ash landfill on water quality in northcentral Chautauqua County, New York (Abstract): Energy and Environmental Stress in Aquatic Systems Ecological Symposium, November 2-4, 1977, Savannah River Ecology Laboratory, Abstracts of Papers, p. 23.
- Barnard, W. M., Johnston, S. E., Watroba, D. A., and Fendinger, N. J., 1978, Arsenic in water and sediments of northcentral Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 13th Annual Meeting, p. 31.
- Fargo, T. R., and Barnard, W. M., 1980, Fluoride in potable waters of Chautauqua County, New York (Abstract): Geological Society of America, Abstracts with Programs, Northeastern Section, 15th Annual Meeting, p. 34.
- Halbig, Joseph B., and Barnard, Walther M., 1991, Atmospheric geochemistry at windward and leeward locations on the island of Hawaii during the early eruptive phases of Puu Oo

(Abstract): Vog and Laze Seminar, 29 July 1991, Center for the Study of Active Volcanoes, University of Hawaii at Hilo, Hilo, Hawaii, [unpaginated].

### **Publications: In-House Reports**

- Barnard, Walther, Pazdersky, Gregory, Salerno, Michelle, and Schneider, Harvey, 1972, Geochemical data and studies, in *Chautauqua Lake Studies 1972 Report*, Lake Erie Environmental Studies Program, State University College, Fredonia, NY, p. 97-113.
- Barnard, W. M., Schneider, H. I., and Robinson, S. L., 1973, Geochemistry of tributaries of Chautauqua Lake, Chautauqua County, New York. Part II. Investigation in 1973, in *Chautauqua Lake Studies - 1973*, Lake Erie Environmental Studies Program, State University College, Fredonia, NY, v. 1A, p. 142-213.
- Barnard, W. M., Suib, S. L., Leetaru, H. E., and Campbell, M. A., 1975, Geochemistry of tributaries of Chautauqua Lake, New York. Part III. Investigation in 1974, in *Chautauqua Lake Studies 1974 Report*, Lake Erie Environmental Studies Program, State University College, Fredonia, NY.
- Mayer, J. R., Barnard, W. M., Metzger, W. J., Storch, T. A., Erlandson, T. A., Johnson, R. H., Luensman, J. R., Nicholson, S. A., and Smith, R. T., 1976, *Chautauqua Lake Studies 1975*, State University College at Fredonia.
- Contributor, with others, *Chautauqua Lake Studies: A Model to Predict the Effect of Phosphorous Loading on Algal Growth in Chautauqua Lake*; July 1976, State University College at Fredonia.
- Contributor, with others, *Chautauqua Lake, A Report to the Public, volume 1: The State of the Lake*; State University College at Fredonia, Jamestown Community College, Chautauqua Lake Association, 1976.
- Barnard, W. M., Bender, T. J., and Congdon, T. J., 1979, *Heavy metals (Cd, Cu, Pb, Ni, and Zn) in Sewage Sludges of Chautauqua County, New York*: Department of Geology and the Environmental Resources Center, State University College, Fredonia, NY.

### **Publications: Other than geological (genealogy-oriented)**

- Barnard, W. M., 2000, Francis Barnard of Simsbury (1719-1789); His Seven Sons fought in the Revolutionary War: Simsbury Genealogical and Historical Research Library Newsletter, v. 7, no. 1, p. 1-5, Simsbury, CT.
- Barnard, W. M., 2000, Notable Kin: Strong Family Association of America Newsletter, v. XXVI, no. iii, p. 1-3

- Barnard, W. M., 2001, Notable Kinsman: Ossip Gabrilowitsch: Strong Family Association of America Newsletter, v. XXVII, no. i, p. 1-2
- Barnard, W. M., 2001, Notable Kin: Dick Clark: Strong Family Association of America Newsletter, v. XXVII, no. ii, p. 1
- Barnard, W. M., 2001, Notable Kin: William Lawrence, Episcopal Bishop of Massachusetts: Strong Family Association of America Newsletter, v. XXVII, no. ii, p. 2
- Barnard, W. M., 2001, Notable Kin: Charles Inman Barnard: Strong Family Association of America Newsletter, v. XXVII, no. iii, p. 1
- Barnard, W. M., 2001, Strong Family Interments in the Old Burying Ground at Deerfield, Mass.: Strong Family Association of America Newsletter, v. XXVII, no. iii, p. 2-4
- Barnard, W. M., 2001, Notable Spouse of Kin: Jacques Barzun: Strong Family Association of America Newsletter, v. XXVII, no. iii, p. 5
- Barnard, W. M., 2001, Notable Kin: Jonathan Gross Barnard (1815-1882): Strong Family Association of America Newsletter, v. XXVII, no. iv, p. 1-2
- Barnard, W. M., 2001, Strong Interments at Palisado Cemetery, Windsor, CT: Strong Family Association of America Newsletter, v. XXVII, no. iv, p. 3-5
- Barnard, W. M., 2002, Strongs in the 1880 Federal Census: A Snapshot in Time: Strong Family Association of America Newsletter, v. XXVIII, no. 1, p. 1-2
- Barnard, W. M., 2002, "From This House Went Forth Seven Sons to Fight in the American Revolution": Strong Family Association of America Newsletter, v. XXVIII, no. 2, p. 1-3
- Barnard, W. M., 2002, Notable Kin: Glenn Close: Strong Family Association of America Newsletter, v. XXVIII, no. 3, p. 1-3
- Barnard, W. M., 2002, Loyalists and Notable Kin Sir Frank Stillman Barnard (1856-1936): Strong Family Association of America Newsletter, v. XXVIII, no. 4, p. 9-10
- Barnard, W. M., 2003, Francis Jones Barnard and the BC Express: Strong Family Association of America Newsletter, v. XXIV [sic; XXIX], no. 1, p. 1-3
- Barnard, W. M., 2003, Notable Kin: William Sloane Coffin, Jr.: Strong Family Association of America Newsletter, v. XXIX, no. 2, p. 1-2
- Barnard, W. M., 2003, Another British Royal Connection: Viscountess Linley: Strong Family Association of America Newsletter, v. XXIX, no. 2, p. 6

- Barnard, W. M., 2003, Strongs in the 1881 Canadian Census: Strong Family Association of America Newsletter, v. XXIX, no. 2, p. 7
- Barnard, W. M., 2003, Notable Kin: Thomas Pynchon: Strong Family Association of America Newsletter, v. XXIX, no. 3, p. 1-2
- Barnard, W. M., 2003, Notable Kin: Lucy Ware Webb Hayes: Strong Family Association of America Newsletter, v. XXIX, no. 3, p. 3-4
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