

Archivist, editor, research-collections manager, bibliographer [PRONUNCIATION: Spah-mer]

Retired (actively) November 2018 ✉ [earlespamer@gmail.com](mailto:earlespamer@gmail.com)

Profile and publications posted on academia.edu, <https://earlespamer.academia.edu/>. The digital version of this CV, with hyperlinks, is also accessible through the academia.edu webpage.

Website (including some publications): Raven's Perch Media, <https://ravensperch.org>. Raven's Perch Media is a reference and resource service for all individuals, organizations, or administrative agencies who have interests or stakeholder concerns in the Grand Canyon and Lower Colorado River regions of the United States and Mexico.

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#### Publications (1979–2024)

Edited Monographs  
 Historical Works (original research and overviews)  
 Archives and Archival Theory  
 Collection Guides & Analytical Works Based on Collections  
 Original Research in the Natural Sciences  
 Taxonomy and Taxonomic Nomenclature  
 Bibliographies and Reference Works  
 Digital Publications (other than web-based productions)  
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 Book Reviews  
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## Employment History

### Professions and Academia

<b>American Philosophical Society</b> , Philadelphia, PA	<b>2005–2018</b>
<b>Academy of Natural Sciences of Philadelphia</b> , Philadelphia, PA *	<b>1986–2005</b>
<b>New Jersey State Museum, Bureau of Natural History</b> , Trenton, NJ	<b>1985–1986</b>
<b>Data Decisions (a Ziff–Davis Company)</b> , Cherry Hill, NJ [commercial publisher]	<b>1983–1985</b>
<b>Auerbach Publishers</b> , Pennsauken, NJ [commercial publisher]	<b>1978–1983</b>
<b>Rutgers University, College of Arts and Sciences</b> , Camden, NJ	<b>1976–1977</b>

\*In 2011, just 3 months from its 200th anniversary in 2012, the Academy became an independent affiliate of Drexel University, Philadelphia

### General Employment

<b>Hussmann Corporation</b> , Cherry Hill, NJ [industrial manufacturing]	<b>1978</b>
<b>Wells Fargo</b> , Voorhees, NJ [security]	<b>1975–1978</b>
<b>Ford Corporation</b> , Pennsauken, NJ [clerical]	<b>1971–1972</b>

## Education

<b>Temple University</b> , Philadelphia, PA (Graduate program in Archives and Manuscripts)	<b>2000–2001</b>
<b>Thomas Edison State University</b> , Trenton, NJ (BA, Science and Mathematics)	<b>1982</b>
<b>Rutgers University</b> , Camden, NJ (Geology, Honors Program)	<b>1973–1978**</b>
<b>Camden County College</b> , Blackwood, NJ (Liberal Arts)	<b>1969–1973</b>
<b>Girard College</b> , Philadelphia, PA (grade and high schools; business track)	<b>1958–1969</b>

\*\*Rutgers University's Camden College of Arts and Sciences terminated its Geology program in 1978

## Experience (Background Statement)

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**My professional activities have been as an archivist, reference librarian, program and research-collections manager, laboratory technician, researcher, writer, bibliographer, typesetter, scientific and technical editor (in not-for-profit and commercial venues), and publisher.**

Principal areas of experience are in the development and maintenance of research resources and in educational and public interaction, communication, and outreach. A list of my publications (1979–2024) is appended to these Vitae. I have as well had the privilege of participating on administrative boards of not-for-profit organizations, serving as a peer-reviewer of publications and research proposals, and joining scientific and educational field projects locally and in the American West. Concrete contributions to widely different fields continue to accrue to my career resources rather than leave them behind as I advance. This reflects personal enthusiasm and confirms many benefits to employers and others. I adapt these areas of experience to the missions of organizations and to activities with staff, visitors, the general public, and individuals and agencies at distance. Mentoring new students in specific areas of work has likewise benefited me.

My most recent employment was an archivist and programs coordinator drawing on activities in scientific and historical research collections, libraries, publishing, and scholarly and educational outreach. These duties, as well as prior experience detailed in these Vitae, required superior organizational skills and flexibility; proven staff, researcher, and media relations; proficiency with computerized resources of all kinds; writing and editorial skills; and familiarity with administrative needs and procedures.

The tangible and intellectual assets of collections of natural objects, and the reference and special collections of libraries, manuscript collections, and archives have been my principal focus. I have promoted and improved the recognition of research collections and their host institutions. I have developed and maintained resources of value to a broad spectrum of researchers, staff, administrators, and enthusiasts.

In areas of administrative oversight I have been involved in directing, and committee contributions to, not-for-profit organizations. These services were provided to an employer (through administrative committees) and to organizations for which I had been invited to participate on their boards of directors. With regard to the positions on the directing boards, I had been most active in activities that pertain to the oversight of artifact collections, libraries, and educational programs. I contributed to formulating mission statements and participated in directing the administration of these organizations within the geographical and intellectual communities that they serve. The result of these boards' oversight was to see greater recognition of the organizations, to increase the organizations' participation in academic and community activities, and to realize increased funding for their missions and specific projects. In particular, the organizations had good impact upon individuals and other organizations within the local community, by promoting a general knowledge of science, technology, and the human affairs that relate to these subjects.

I have current experience with various software products, including Microsoft Office (Word, Access, Excel, PowerPoint, which I use professionally and avocationally), Aeon, ArchivesSpace, Archivists Toolkit, and Photoshop; and to a lesser extent, XML. I have used Word and Access since their initial releases some 30 years ago. (I am not an applications programmer but often customize the query and report functions that are available in some of these products.) Software that I once used frequently include HTML, BASIC, FORTRAN IV, WordPerfect, dBase, Superbase, Paradox, and Quadex (some of them now long out of use). I have also used proprietary software that was customized for the use of my employers.

Avocationally I am a historian of the American Southwest from the 16th century to the present, with special attention to every aspect of the Grand Canyon and lower Colorado River regions in Arizona, Nevada,

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California and the Mexican states of Baja California and Sonora. Topical interests in this geographical area include scholarly, technical, and popular perspectives in the following subject areas: history and biography; natural, physical and environmental sciences; geography; engineering and water management; administrative oversight; legislative and judicial affairs; concerns of public-interest and special-advocacy groups; interests and activities of Indigenous peoples; archaeology and cultural preservation; social sciences; issues of health and safety; activities by and for the vision-impaired and other special-needs people; mapping; literature (non-fiction, fiction, poetry, and works for and by youth); products on digital media; and music, film, and 3-D photographic media. I keep a large library, paper and digital research files, and other collections including photographs and ephemera, all of which pertain to these areas and topics. These collections are descriptively cataloged to the item level in databases, and data and materials are freely shared.

Drawing on and contributing to my professional and avocational interests both, I have compiled and continue to produce a comprehensive worldwide bibliography of the Grand Canyon and lower Colorado River regions. Continuously updated, the bibliography now (next edition in preparation) comprises more than 106,000 citations of monographs, articles and notes, many of them embellished with contextual notes and cross-listed to standard reference works. The citations, arranged in 32 topical sections, embrace publications produced in various media, 1535–2021, in 114 languages. I began this volunteer project in 1974, and 1980–2021 it was backed by the Grand Canyon Conservancy (formerly the Grand Canyon Natural History Association and Grand Canyon Association), the official not-for-profit partner with Grand Canyon National Park established in 1932. The bibliography is the most comprehensive such resource for any unit of the National Park Service. Inkprint editions were published in 1981, 1990, 1993. An online Internet Edition—a searchable database using Adobe ColdFusion that I frequently update with the use of XML-coded files—was first posted to the GCA website in January 2000. Due to technological issues, the database was taken down October 2021. In 2012 I also reinstated the more permanent, browsable, monographic format, which was on digital disk as a page-formatted (book-like), searchable PDF document employing optional hyperlinks to navigate between its various parts and components. It is completely revised, updated, and embellished with extended references, essays and illustrations that are not available in the online database. Disk editions were made in 2012 and 2015; a third edition was published online through the Raven's Perch Media website in January 2019 to commemorate the centennial of Grand Canyon National Park and the sesquicentennial of John Wesley Powell's first Colorado River expedition; the fourth edition, accompanied by two new volumes, was made available online in January 2022; the fifth edition is in preparation.

I am also a family genealogist, having produced very detailed works that add researched historical notes and perspectives. Paper and digital copies of these works have been shared with public institutions and organizations as well as with individuals; they are accessible online now. The experience gained in this research has proven to be very useful in my professional career, too, revealing research vectors and introducing me to methodologies that allow for value-added interactions when genealogically-focused inquiries are directed to me.

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## Experience (Details)

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In the experience sections that follow, some positions with individual employers were held concurrently, as date ranges indicate.

### Libraries, Archives and Manuscripts Research Collections

- **AMERICAN PHILOSOPHICAL SOCIETY**

Founded in 1743 by Benjamin Franklin for "promoting useful knowledge." <https://www.amphilsoc.org>

**Reference Archivist (2007–2018) (RETIRED NOVEMBER 2018):** Research, reference, and maintenance duties in collections of manuscripts and printed materials, including services for Society members, staff, and on-site and remote researchers. (Collection strengths are principally the 18th to 21st centuries in the humanities, especially American history to 1860; histories of science, technology and medicine to the present day; and Native American cultures and languages from the 18th century to the present day. Other collection materials date to the 15th century.) Management of reading room duties including staff scheduling, new-staff and Fellows' training in procedures and protocols, and patron and reference interviews. Manuscripts collection processing, arrangement and description; preparation and updating of online finding aids (includes the use of Archivists Toolkit and ArchivesSpace software), database resources and other informational materials; creation of digital images; *ad-hoc* duties in support of the Librarian (director), Manuscripts Librarian, and Printed Materials Librarian. Staff support of Society administration as well as Museum. Reference duties require the use of Aeon software and server-based databases. As a member of Senior Staff also with shared responsibility for ensuring building security and condition of the premises.

**Library Programs Coordinator (2007–2017):** Administration of the Library Resident Research Fellowships program, including advertising, maintenance of databases and providing data to APS administrators and departments; and resident-fellows' liaison. I was a member of the LRRF review committee. The program focuses upon, but is not restricted to, Ph.D. candidates, junior professors at the beginnings of their careers, and degreed independent scholars. Stipends are provided by various restricted funds. The position also involves planning and execution of public displays exhibited in the Library, editorial duties for periodical publications, and assistance to and cooperation with APS Conservation and Museum departments that relate to Library and Museum exhibits and presentations. Managerial oversight extended in 2015 to a series of new one-year predoctoral fellowships for dissertation research and writing, based in the APS Library. I implemented the transition of the application and review process to the digital environment online through Interfolio (Interfolio.com).

Research on and facilitating public Library lobby exhibits exhibiting historical and important materials from the Library's manuscripts and printed materials collections.

**Pew Special Project Assistant Reference Librarian (2005–2007):** Research and reference services in manuscripts and printed materials; reading room assistance to researchers; use of server-based databases; *ad-hoc* duties in support of the Library staff during three years of Library renovations.

- **ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA**

In 2011, just 3 months from its 200th anniversary in 2012, the Academy became an independent affiliate of Drexel University, Philadelphia, now called the Academy of Natural Sciences of Drexel University <https://ansp.org>

**Archivist, Ewell Sale Stewart Library (2000–2005):** Management and curation of the institution's archives and manuscripts collection containing documents created chiefly in the 18th to late 20th centuries; oversight of the art and artifacts collection; reference services to staff and to on-site and remote researchers; collection appraisals and accessions; institutional records selection and retention; collections processing, arrangement and description; management of databases and department records; creation of digital images; processing permissions and reproduction requests; internal liaison with scientific, exhibits, and public programs staffs; external affairs contact with public and media.

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Established a digital, server-based records-keeping system to complement extensive paper-records control files relating to collections content and acquisitions. Initiated a re-edit of collections descriptions for a projected online presence that had been started under a grant overseen by my predecessor, but never completed. (Because of a lack of staff resources, *detailed* finding aids were not the objective of this project, which still remained unfinished at the time of my departure.) Supervision of volunteers and interns (no additional staffing during my tenure). As Archivist and past Collection Manager in the Department of Botany, participated by invitation in numerous events relating to the Bicentennial of the Lewis & Clark Expedition during 2003–2006, including events at or held by the Lewis & Clark Trail Heritage Foundation, Philadelphia Flower Show, National Geographic Society, Monticello, and The White House.

One unusual project was the oversight given me by a director of the Academy to evaluate the files and records of a curator of the Division of Environmental Research and Trustee Emerita of the Academy, who had been actively on staff for more than 75 years. The curator was still working, although was no longer daily in the building, thus no action was taken toward removing materials. The purpose of my census was specifically to assist future directors and archivists to understand the scope and content of these files and records, and how they corresponded to the small portion of which had already been accessioned and incorporated into the Archives.

In late 2004 notice was given that because of reduced finances the position of Archivist would be administratively eliminated in early 2005, indefinitely, while an endowment was sought to support the position (the process took about four years). On my own initiative, in a few weeks I conceived and created a “Hiatus Collection,” which roughly arranged the significant number of unprocessed and effectively recordless collections held by the Archives (more than 200 linear feet), some received as donations but particularly composed of records that represented the activities of departments and administrative sections of the Academy, past and present. The main purpose of creating this temporary collection was to capture institutional memory and to record the objective purposes of each component of the material. I set aside a physical “triage” area in the Archives to rehouse and arrange this collection, which with the assembled data would allow archivists quick access to these previously undocumented materials, to understand how they complemented existing collections, and to gain administrative control over that material. Having had been affiliated with the Academy for 19 years on payroll, or 32 years including earlier student and volunteer engagements, I was one of the few employees with institutional memory and practical perspectives spanning a period of significant administrative and programmatic changes at the Academy. I also had had historical contact with long-time employees who had retired or died during my time at the Academy. I was the only employee ever who had worked in so many of the institution’s divisions, departments and diverse collections; still I lacked practical experience in the Entomology, Ornithology, and Ichthyology departments, and in the Mammalogy and Herpetology collections.

**Caretaker, American Malacological Union Archives** (1988–1992): Management and curation of organizational records held on deposit in the Department of Malacology. (AMU founded in 1931, now the American Malacological Society.)

- **PRESBYTERIAN HISTORICAL SOCIETY, PHILADELPHIA**

**Archives Intern** (2000–2001): Processing the papers of Rev. Ralph Waldo Lloyd (see under “[Web-Based Publications](#)” herein). Internship was in conjunction with graduate work in archives and manuscripts at Temple University.

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## Management of Natural History Research Collections

(in reverse chronological order although with some concurrent responsibilities)

- **ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA**

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Various positions involved the management and maintenance of preserved-specimen collections, databases, and ancillary research materials. The collections and their metadata embrace the earth, biological, and environmental sciences. Further requirements of positions included maintenance of laboratory facilities; assistance to visiting researchers; and external relations. Various duties also required photographic and darkroom work, digital imaging, and use of a Scanning Electron Microscope. A significant amount of library-based research was required in all positions, and in less measure reliance on the holdings of the institutional Archives. Publications were derived as the result of work in each collection. Participated in grant writing in several of these positions (in one position as a principal coauthor). In each position worked with other departments and divisions of the Academy, also participating in external communications and exhibits.

MINERALOGY COLLECTION: **Acting Collection Manager** (1998–2005). (This collection was without an institutional curator since the 1970s.) Assumed the duties of a departing adjunct mineralogist who had been on retainer since the 1980s. Requirements included curatorial maintenance and assisting special-use visitors to the collection. (The collection normally was closed to research due to lack of staffing and the great monetary value of holdings that precluded unsupervised use.) Successfully salvaged and migrated a then-unique copy of the collection database from IBM DOS Backup format to Microsoft Access.

DEPARTMENT OF BOTANY: **Collection Manager** (1997–2000). (This department also oversees the Paleobotany Collection, a collection without an institutional curator since the 1970s.) Requirements included collections processing and maintenance, including loan processing; assistance to visiting and remote researchers. Worked with and helped maintain extensive departmental records and a substantial departmental library. Supervision of interns and volunteers. A major accomplishment was initiating and executing a program to digitize the Lewis & Clark Herbarium for the first time, later producing an interactive CD-ROM that contained for the first time a study set of images of individual specimens and facsimile reproductions of original descriptions and illustrations, and keyed to a complete reassessment of taxonomic identifications in the collection by James Reveal, A. E. Schuyler, and Gary Moulton, which had been published by the Academy in 1999. A coauthor of grant for the conservation of, and educational outreach for, the Lewis & Clark Herbarium—\$225,000 awarded by the National Trust for Historic Preservation, as part of the first round of the Save America's Treasures program (a partnership between the Institute for Museum and Library Services and the National Park Service).

DIATOM HERBARIUM (a department of the Division of Biodiversity and Evolution that also supports the field collections of the Academy's Division of Environmental Research): **Collection Manager** (1992–1997; Acting, 1997–2000) (This collection comprises mostly modern diatoms but also includes fossil gatherings from geological strata.) Requirements included collections processing and maintenance, including loan processing; assistance to visiting and remote researchers; work on Scanning Electron Microscope and digital imagery. With the Curator installed separate computer network between floors for departmental use several years prior to the implementation of a building-wide computer network. Supervision of assistants. Oversaw the herbarium holdings database, eventually migrating from dBase to Superbase to Microsoft Access. Participant in grant writing. Undertook exhaustive research on the worldwide taxonomy of diatom species of interest to the department Curator. Also worked closely with the Curator Proprius (emeritus curator, Division of Biodiversity and Evolution), the Francis Boyer Chair of Limnology (Division of Environmental Research), and the Director of the DER, to manage the herbarium-proper and its ancillary resources, including unique reference and records files and an important departmental library. Served with

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interim responsibilities as Acting Collection Manager during the time that I was Collection Manager in the Department of Botany and during which time the Diatom Herbarium was without a regular curator.

DEPARTMENT OF MALACOLOGY, GENERAL INVERTEBRATES SECTION: **Collection Manager** (1990–1992) (The General Invertebrates Collection comprises all modern taxonomic groups except mollusks, insects, and arachnids. Individual collections had been without institutional curators sometimes for several decades prior to having been consolidated and administratively assigned to this department.) Requirements included collections maintenance and loan processing, implementation of database (using software customized for the department's use); assistance to visiting and remote researchers. A major accomplishment was the complete bibliographical research, taxonomic census, and conservational survey of the approximately 700 lots of Type specimens of the collection, with the publication in 1992 of the first detailed catalog of holdings (see Publications).

DEPARTMENT OF MALACOLOGY: **Curatorial Assistant** (1987–1990), **Assistant Collection Manager** (1990–1992): Collections processing and maintenance, including loan processing, and implementation of database (using software customized for the department's use); assistance to visiting and remote researchers. Worked with and helped maintain extensive departmental records and a substantial departmental library. Contributed to research on several catalogs of the Type specimens in different systematic sections of the department's collection.

DEPARTMENT OF MALACOLOGY, INVERTEBRATE PALEONTOLOGY SECTION: **Acting Collection Manager** (1986–1987). (The Invertebrate Paleontology Section was administratively transferred to this department in 1978 after the termination of the Department of Geology and Paleontology. The collection includes all fossil invertebrate taxonomic groups.) Collections processing and maintenance, including loan processing, and implementation of database (using software customized for the department's use); assistance to visiting and remote researchers. [*Employed while the Collection Manager was on an extended leave of absence.*]

- **NEW JERSEY STATE MUSEUM, BUREAU OF NATURAL HISTORY**

**Assistant Registrar** (1986); **Museum Technician** (1985–1986): Assisted with the implementation of databases of preserved-specimen collections, and participated in paleontological fieldwork.

- **VOLUNTEER AND WORK-STUDY ACTIVITIES**

**Academy of Natural Sciences of Philadelphia**

*1986–2000*: Volunteer work during weekends and after hours, DEPARTMENT OF VERTEBRATE BIOLOGY, VERTEBRATE PALEONTOLOGY SECTION: My principal contribution was the complete bibliographical research, taxonomic census, and conservational survey of the approximately 400 lots of Type specimens of the collection, with the publication in 1995 of the first exhaustively annotated catalog of holdings, to which also was added historical, procedural, conservational, bibliographical and other background information (see Publications herein).

*1986–2000*: Volunteer work during weekends and after hours, DEPARTMENT OF BOTANY, PALEOBOTANY SECTION: My principal contribution was the complete bibliographical research, taxonomic census, and conservational survey of the approximately 100 lots of Type specimens of the collection, with the publication of annotated catalogs of holdings, to which also was added historical and other background information (see Publications).

*1973–1986*: Volunteer and Student Research Assistant, DEPARTMENT OF GEOLOGY AND PALEONTOLOGY: Assisted with maintenance and cataloging of collections (invertebrate and vertebrate paleontology, paleobotany, mineralogy, petrology, and Coastal Plain core samples). During several summers was a paid work-study student participating on moving the collections to new locations, both within the building complex and to offsite locations. [In 1978 this department was administratively terminated and the collections were transferred to other departments. The petrology collection was packed for storage, and in the 1990s I oversaw its transfer to and accession by the Wagner Free Institute of Science, Philadelphia (see in the "Administrative Oversight" section of these Vitae).]

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**Wagner Free Institute of Science, Philadelphia**

1987–1988: Volunteer work preparing a study of the Type specimens of paleontological materials held by the Institute, a grant-funded project. See Publications herein for the published catalog (1988). [Regarding the Institute, see also under Administrative Oversight herein.]

**Rutgers University, College of Arts and Sciences, Department of Geology**

1976–1978: Caretaker of study collections. Supervision of work-study students. [*Compensated work-study student.*]

**Laboratory Work and Field Research**

- **ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA**

1996: **Research Assistant** to the Vice President, Division of Biodiversity and Evolution. Laboratory assistance (diatom ecology and systematics), Scanning Electron Microscope work, and fieldwork in Yellowstone National Park and vicinity. [*On payroll.*]

- **U.S. BUREAU OF RECLAMATION, GLEN CANYON ENVIRONMENTAL STUDIES (Flagstaff, AZ)**

Assistant on investigations conducted along the Colorado River through Grand Canyon, as part of work toward an Environmental Impact Statement for the operation of Glen Canyon Dam.

1991: Undertook the pioneering environmental survey of aquatic and terrestrial molluscan fauna in the Colorado River corridor between Lees Ferry and Diamond Creek (226 miles). [*Travel expenses to Arizona paid.*]

1995: Assistant to boat crew and field investigators on studies of photosynthetically available solar radiation in the Colorado River between Lees Ferry and Diamond Creek. [*Pro bono.*]

- **NEW JERSEY STATE MUSEUM, BUREAU OF NATURAL HISTORY**

1985–1986: Field assistant on the Ellisdale, New Jersey, dinosaur site (project funded by National Geographic Society). [*On payroll.*]

- **RUTGERS UNIVERSITY, COLLEGE OF ARTS AND SCIENCES, DEPARTMENT OF GEOLOGY**

1977: Field work under direction of faculty, on behalf of the New Jersey Department of Environment Protection and New Jersey Department of Health, to create a preliminary topographic map of the Lipari Landfill in Gloucester County. In 1983 this site was listed No. 1 on the Superfund National Priorities List of the U.S. Environmental Protection Agency, for its content of uncontained, undetermined hazardous chemicals in proximity to wetlands, streams, aquifers, agricultural land, and residential communities. [*Student.*]

**Teaching**

- **RUTGERS UNIVERSITY, COLLEGE OF ARTS AND SCIENCES, DEPARTMENT OF GEOLOGY**

**Coadjutant Instructor** (1976–1977): Teaching assistant / laboratory instructor for undergraduate courses in geology and paleontology. [*Note: This assignment was while I was myself an undergraduate, by appointment of the Dean of the College and under the direction of faculty.*] [*Stipends provided.*] [*Note: Rutgers University College of Arts and Sciences disbanded its geology program in 1978.*]



### Editorial and Publisher's Activities

- **AMERICAN PHILOSOPHICAL SOCIETY**

**Assistant Managing Editor, Managing Editor: *Mendel Newsletter*** (2010–2018).

Post-editorial production and distribution of the Mendel Newsletter, a complimentary publication of the American Philosophical Society Library relating to archival resources in the history of genetics and allied sciences. During my tenure migrated the *Mendel Newsletter* from print to an online venue.

- **ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA**

**Editor, Managing Editor: Scientific Publications Division** (1997–2003)

Publisher's oversight of America's oldest uninterrupted publications program devoted to natural history and the environment (from 1817). Position involved serving as Editor, also with oversight of production of the Academy's peer-reviewed scholarly publications program, comprising four series (*Proceedings*, *Monographs*, *Special Publications*, and *Notulae Naturae*); management of all authors' and printers' relations; management of international subscription and distribution lists and order fulfillment; design and production of camera-ready pages for printing of the *Proceedings* and *Notulae Naturae* series by contracted commercial printers. I implemented the Scientific Publications' first web presence; compiled the first comprehensive, annotated, indexed catalogue of available and out-of-print publications (mostly still available from original stock dating to the mid-1800s); and produced the Academy's first digital publications on CD-ROM. Supervision of clerical assistants.

**Senior Editor, Communications Department** (2000)

Reporting to the Vice President for External Affairs, I was designated as the liaison between research departments of the Academy and the Communications Department, responsible for the scientific content of all non-scholarly publications disseminated by the Academy.

**Editor, *Lewisia*** (Friends of the Department of Botany) (1998–1999)

Editorial, design and production of newsletter produced in-house for the Friends membership.

**Assistant Editor, Co-Editor, *Tryonia*** (Miscellaneous Publications of the Department of Malacology) (1988–1993)

Edited, designed and produced camera-ready pages for contracted commercial printers.

- **DATA DECISIONS** (*commercial publisher*)

**Editor–Analyst** (1983–1985)

Management of research and content of unbiased product-analysis publications about computers, peripherals, and telecommunications equipment; monthly deadlines and schedules for specific projects. Supervision of rotating support staff within my principal product line. [Business sold by parent company, 1985.]

- **AUERBACH PUBLISHERS** (*commercial publisher*)

**Typesetter; Assistant Editor; Associate Editor; Project Editor** (1978–1983)

As Typesetter, used Quadex proprietary software/hardware to produce photomechanically generated texts and page images for publication. In editorial positions, involved with the management of research and content of unbiased product-analysis publications about mainframe computers and peripheral devices; monthly deadlines and schedules for specific projects. As Project Editor, supervision of editorial staff of 5–8 editors and copy editors.

- **CONTRACT AND VOLUNTEER WORK IN PUBLISHING**

- **Delaware Valley Paleontological Society, Inc.**

- 1978–1998: Publications Committee member; and Associate Editor, Co-Editor, *The Mosasaur* (Journal of the DVPS)

- ***Malacologia*, International Journal of Malacology**

- 1989–1998: Contracted indexer

- **Grand Canyon Association**

- 1990–2010: Contracted and volunteer services in publications

- ***Annals of Improbable Research***

- 1995–2024: Editorial Board member (*current*)

- **Fulcrum Books**

- 2003–2004: Contracted indexer. (Commercial publisher.)

- **Corcoran Gallery of Art**

- 2006: Contracted writer

- **Grand Canyon Historical Society**

- 2012: Contracted indexer

### Curation of Public Exhibits

- **AMERICAN PHILOSOPHICAL SOCIETY LIBRARY**

- 2014 **A Case for History: Treasures of the American Philosophical Society Library**

- 2014–2015 **\*A Republic of Treasures: Influences On—and Legacies From—Thomas Jefferson**

- 2015–2016 **\*Science and Exploration: Thomas Jefferson's Legacies**

Exhibits utilized manuscripts, printed materials, and artifacts from the Library and the Museum of the APS

\*These exhibits correlated with exhibits mounted by the APS Museum in its separate exhibit space

### Administrative Oversight

- **ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA** [*on staff*]

In 2011, just 3 months from its 200th anniversary in 2012, the Academy became an independent affiliate of Drexel University, Philadelphia, now called the Academy of Natural Sciences of Drexel University <https://ansp.org>

- **Scientific Publications Committee** (1992–2003)

- **Library Committee** (1995–1998)

- **Interdivisional Liaison** (1995–1997): As designated by the Vice President, Division of Biodiversity and Evolution, and the Vice President for Development and Communications, to provide the means to improve and coordinate communication between the several divisions of the Academy

- **WAGNER FREE INSTITUTE OF SCIENCE (Philadelphia, PA)** [*pro bono*]

<https://www.wagnerfreeinstitute.org>

- **Board of Trustees** (1988–1998); **Secretary** (1993–1997)

- *Board committees:* **Library and Publications Committee** (1989–1998), **Museum Committee** (1989–1998), **Building and Operations Committee** (1993–1998), **Long-Range Planning Committee** (1993–1996) [including development of institutional Strategic Plan], **Ad Hoc Committee on Governance Policies** (1994–1995), **Special Committee on Institutional Affiliation** (1995–1997)

The Wagner Free Institute of Science began in the 1840s with Philadelphia merchant William Wagner's (1796–1885) public lectures in natural history, with incorporation through a Deed of Trust in 1855, and construction of a museum and lecture hall in the early 1860s. Placed on the National

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Register of Historic Places in 1989 the Institute soon afterward was designated a National Historic Landmark. The Institute is a not-for-profit, privately endowed institution with a building having significant architectural significance, hosting a historic museum of natural history (physically unaltered since the end of the 19th century, the last of its kind in America). The Institute also provides public-education programs in science, health, and technology, including adult semester-format classroom series taught by local college professors on stipend, both at the Institute and at locations in greater Philadelphia. The Institute may, by act of the Legislature of the Commonwealth of Pennsylvania, confer academic degrees; however, only a few honorary degrees have been awarded since the 19th century, to recognize work of merit. The Institute also conducts community outreach programs with nearby inner-city public schools, chiefly in the area of natural history. The Institute's Deed of Trust mandates that all activities are free of charge.

The endowment at the time of my service was approximately \$2.5 million. During my tenure as a Trustee, the Board crafted the institution's first mission statement. Following the retirement of the Director, the Trustees hired a new Director with the mandate to solicit donations and grant funding for significant needs of the Institute, most notably a structural roof study, new roofing, and other important physical plant needs, all of which were successfully begun and implemented over a period of time. The Trustees also reconsidered their lifetime appointments, a policy originally established by the founder in the Deed of Trust, in favor of term limits.

In 1993, I negotiated and handled arrangements for the Institute's accession of the Academy of Natural Science's Petrology Collection (general collection of rocks, which I had helped package for storage in 1978). This was to ensure that the collection and its metadata could remain in Philadelphia and in the care of a long-standing institution noted for its historical natural history collections and educational programming.

- **DELAWARE VALLEY PALEONTOLOGICAL SOCIETY, INC. (Philadelphia, PA) [*pro bono*]**

**Board of Directors** (1983–1994)

**President** (1984–1986)

The Delaware Valley Paleontological Society, incorporated in 1980, was founded in 1978 as an organization of professional and amateur paleontologists, having a nationwide membership of about 200 when I was on the Board. The Society maintains regular meetings, conducts field trips and other programs, publishes a peer-reviewed journal, and manages a scholarship program to aid students in field work and research.

### Additional Professional Experience

- **Research Associate**, Academy of Natural Sciences of Philadelphia (now Academy of Natural Sciences of Drexel University): Courtesy position conferred 2005 on election by the Curators
  - **Inter-institutional liaison**, American Philosophical Society and Academy of Natural Sciences of Philadelphia (2011): Appointed by the Executive Officer of the APS to coordinate activities between the APS Museum and the Botany Department of the Academy, for the census and cataloging of botanical specimens on deposit at the Academy since 1897 and still the property of the APS. These 18th- and 19th-century collections are the Lewis & Clark Herbarium and the Herbarium of Benjamin Smith Barton
  - **Educational Field Trips Conducted for the Public**
    - 1973–1990s*: Academy of Natural Sciences of Philadelphia. Leader of volunteers' and members' field trips; mostly in the area of Philadelphia, PA, but one trip on the Colorado River through Grand Canyon
    - 1990–2001*: Grand Canyon Expeditions Co. (Kanab, UT). Geological and historical interpreter on annual special-interest trips on Colorado River through Grand Canyon
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- **Peer Reviewer of Manuscripts and Proposals**

Geological Society of America, History of Geology Division  
 Rutgers University Press  
 Society for the Preservation of Natural History Collections  
 United States Senate, Senate Historical Office  
 Utah State University Press  
 University of Utah Press

- **Invited Presentations and Participations**

Board of Editors in the Life Sciences  
 The Explorers Club, Philadelphia Chapter  
 Geological Society of America, History of Geology Division  
 Geological Society of America, Penrose Conference, "From the Inside and the Outside: Interdisciplinary Perspectives on the History of Earth Science"  
 Ig Nobel Prize Ceremonies, Harvard University  
 New Jersey State Museum  
 Philadelphia Botanical Club  
 Society for Vertebrate Paleontology, Annual Meeting  
 "The Colorado River: Origin and Evolution"—Symposium, Grand Canyon National Park  
 Wagner Free Institute of Science, Joseph Leidy Centennial Symposium

- **Transcribing Services**

Northern Arizona University, Cline Library, Special Collections and Archives: Transcription of handwritten early 20th-century geological field notes and diaries. [*Pro bono.*]

## Other Affairs

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### Awards

- **Award of Honorable Mention in Publications**, 1991–1992 National Park Service Cooperating Association Publications Competition  
*Bibliography of the Grand Canyon and the Lower Colorado River*, by E. E. Spamer (Grand Canyon Association, 1990 edition).
  - **1998 Southwest Book Award**, Border Regional Library Association  
*Quest for the Pillar of Gold: The Mines and Miners of the Grand Canyon*, by G. H. Billingsley, E. E. Spamer, and D. Menkes (Grand Canyon Association, 1997).
  - **Award of Honorable Mention**, 1998 National Park Service Cooperating Associations Interpretive Excellence Competition  
*Quest for the Pillar of Gold: The Mines and Miners of the Grand Canyon*, by G. H. Billingsley, E. E. Spamer, and D. Menkes (Grand Canyon Association, 1997).
  - **Honorable Mention**, 2005 Media and Partnership Awards, Association of Partners for Public Lands  
*The Colorado River: Origin and Evolution*, edited by R. A. Young and E. E. Spamer (Grand Canyon Association, 2004).
  - **Pioneer Award 2012**, Grand Canyon Historical Society  
 Awarded annually to an individual who "has made a significant contribution to the understanding of the Grand Canyon of the Colorado River."
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### Media Relations

- Media contact as requested by External Affairs and Communications offices, Academy of Natural Sciences of Philadelphia
- Media contact for Dinofest™ (an Academy of Natural Sciences of Philadelphia production at the Philadelphia Civic Center in 1998; visitation 500,000)
- Appearances on television and radio programs relating to the history of science, the American West, and improbable science and education. Public Broadcasting System ▪ The History Channel ▪ Canadian Discovery Channel
- Work cited in various columns. *The Arizona Republic* (Phoenix) ▪ *The Boston Globe* ▪ *The New York Times* ▪ *The Philadelphia Inquirer* ▪ *U.S. News and World Report*

### Current and Past Professional Affiliations

Academy of Natural Sciences of Drexel University (Research Associate)  
 Arizona Historical Society  
 Arizona–Nevada Academy of Science (life member)  
 Colorado Plateau River Guides (life member) [organization ceased]  
 Delaware Valley Archivists Group  
 Delaware Valley Paleontological Society (founding member)  
 Girard College Alumni (life member)  
 Grand Canyon Historical Society  
 Grand Canyon Natural History Association / Grand Canyon Association / Grand Canyon Conservancy (life member)  
 Grand Canyon River Guides (life member)

### Personal Contributions to Special Collections

To ensure wider, more pertinent use and better safekeeping of historical and research materials in my possession, I have made the following personal donations of research materials to libraries and archives:

- **Tape recording, speech of U.S. President Harry S. Truman, Girard College, Philadelphia, PA, May 20, 1948**  
*Donated 1999 to: Harry S. Truman Presidential Library and Museum* (Independence, MO) (accession SR99-21).  
 Reel-to-reel tape recording. Speech to the student body, staff, and alumni of Girard College, presented in the college chapel on the occasion of the school's Centennial. [*Tape recording recovered 1968/1969 while cleaning a storeroom of the Dramatics department in the Girard College High School building. Item was to be discarded; I asked to keep it.*]
  - **World War I (France) field notebook, memoir, and papers of Capt. Earle Covington Smith, U.S. Army, 1917–1919**  
*Donated 2001 to: Veterans History Project, American Folklife Center, Library of Congress* (Washington, DC) (accession AFC/2001/001/12817).  
 Nearly the entire collection has been digitized and is accessible online at:  
<http://lcweb2.loc.gov/diglib/vhp/bib/12817> (last accessed 11 February 2019). [*Materials inherited from Smith, a grand-uncle.*]
  - **Papers and field engineer's artifacts from the engineering career of Earle Covington Smith, U.S. Bureau of Reclamation, 1930s**  
*Donated 2003 to: Boulder City Museum and Historical Association* (Boulder City, NV) (Earle Covington Smith Collection, accession 003.031).  
 E. C. Smith worked as Bureau of Reclamation field engineer at Hoover Dam (AZ–NV), 1930–1936; and Central Valley Project (CA) including Shasta Dam, 1936–1944, among other assignments. [*Materials inherited from Smith, a grand-uncle.*]
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- Annotated copy of *Herbarium of the Lewis and Clark Expedition, Volume 12* of Gary Moulton (ed.), *The Journals of the Lewis and Clark Expedition* (University of Nebraska Press, Lincoln and London, 1999).

*Donated 2009 to: American Philosophical Society* (Philadelphia, PA) (call no. Mss. 917.3 L58j.m v.12sp).

The APS still owns two-thirds of the Lewis & Clark Herbarium, which component was placed on deposit at the Academy of Natural Sciences of Philadelphia in 1897. (The remaining one-third, also in the Lewis & Clark Herbarium at the Academy, was bought at auction in London in 1842 and given to the Academy in 1856.)

*[This volume originally purchased by me for personal use, later inscribed to me by the editor. It was my own working copy when I was Collection Manager in the Botany Department of the Academy of Natural Sciences. Includes copious annotations and emendations to Moulton's published transcriptions of labels and notes regarding the Lewis & Clark Herbarium, and notations about each specimen sheet. The volume also complements the data and digital illustrations of the APS component of the Lewis & Clark Herbarium, which are documented online by the Museum of the APS. Herbarium listings are accessible through the Museum's website*

<http://amphilsoc.pastperfectonline.com/>

*(keyword search information at <http://amphilsoc.pastperfectonline.com/Search>). (Last accessed 18 July 2023.)*

- **Tape recording of a talk by R. Buckminster Fuller, Rutgers University, Camden, NJ, November 8, 1974**

*Donated 2015 to: The Estate of R. Buckminster Fuller* (Santa Barbara, CA), *for R. Buckminster Fuller Collection, Stanford University Libraries* (Stanford, CA).

Cassette tape recording (and migrated .mp3 digital files made in 2011) of talk by Fuller, title not now known. *[Recorded by me; recording apparently unique.]*

- **The so-called "Spamer Album" of "Grand Canyon Cableway Survey Photographs," 1919**  
**Tourists' album of Grand Canyon and Southwest photographs and ephemera, 1903**

*Donated 2015 to: Grand Canyon National Park Museum Collection* (Grand Canyon, AZ) (Accession No. GRCA-05781).

*Grand Canyon Cableway Survey Photographs*: One of four known photograph albums—each different and this one the most comprehensive—assembled from photography taken during the survey by George K. Davol and others, for an aerial tram proposed to cross the Grand Canyon. Two of the other three albums are held by the Grand Canyon National Park Museum Collection; the third is held by Cline Library. [For more on the survey and the four albums see Jim Ohlman, "The 1919 Transcanyon Aerial Tramway Survey." Pages 7-14 in Michael F. Anderson (ed.), *A Gathering of Grand Canyon Historians; Ideas, Arguments, and First-Person Accounts* (Grand Canyon Association Monograph 13, 2005).] *[Album acquired by me through auction in 2000.]*

*Tourists' album*: Album assembled by an unknown party, identified by me possibly as a Miss Gardner from New York, recording a visit by family and friends by rail to the Grand Canyon and Petrified Forest in 1903. Photographs include views of a mounted descent on Bright Angel Trail in Grand Canyon, and a hitherto unknown photograph of legendary miner/hostler John Hance. *[Album acquired by me through auction in 2001.]*



## Publications (1979–2024)

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A browsing and grouped selection of papers is also consolidated online at <https://amphilsoc.academia.edu/EarleSpamer>. Publications produced through Raven's Perch Media can be downloaded through <https://ravensperch.org>.







• indicates a work not peer-reviewed, or not evaluated by a managing editor or editorial committee; works produced through Raven's Perch Media are self-published



### Edited Monographs

- 2004 ***The Colorado River : origin and evolution : proceedings of a symposium held at Grand Canyon National Park in June, 2000.*** Grand Canyon Association, Grand Canyon, AZ. 280 pp. (GCA Monograph 12.)  
(Richard A. Young and Earle E. Spamer, eds.)

### Historical Works (original research and overviews)














#### Monographs














- 1989 **The development of geological studies in the Grand Canyon : prepared for the 28th International Geological Congress Colorado River field trips through the Grand Canyon, Lees Ferry to Temple Bar, Arizona, June-July 1989.** *Tryonia*, no. 17. 87 pp. 
- 1997 ***Quest for the pillar of gold : the mines and miners of the Grand Canyon.*** Grand Canyon Association, Grand Canyon, AZ. 114 pp.   
(George H. Billingsley, Earle E. Spamer, and Dove Menkes)
- 2002 **The Lewis and Clark Herbarium of the Academy of Natural Sciences. Part 1. History.** *Notulae Naturae*, no. 475. 46 pp.   
(Earle E. Spamer and Richard M. McCourt)
- 2004 ***Jefferson's botanists: Lewis and Clark discover the plants of the West.*** The Academy of Natural Sciences, Philadelphia. 20+ pp.   
(Richard M. McCourt and Earle Spamer)
- 2022 • ***Sven Hedin : Grand Canyon : An English translation of the 1925 edition.*** Raven's Perch Media, Philadelphia, xii, 165 pp., map.   
(Translation largely produced using Google Translate, <https://translate.google.com/>; edited by Earle E. Spamer. *Grand Canyon* was originally published in Swedish by Albert Bonniers Förlag, Stockholm, 1925)
- 2022 • ***Balduin Möllhausen's Grand Canyon: An English Translation from Chapters 21–25 of Travels into the Rocky Mountains of North America to the High Plateau of New Mexico [Reisen in die Felsengebirge Nord-Amerikas bis zum Hoch-Plateau von Neu-Mexico] (Leipzig, 1861) : with a transcription of coinciding parts from Chapters 6–8 of the "General Report" of Lt. Joseph C. Ives' Report Upon the Colorado River of the West (1861).*** Raven's Perch Media, Philadelphia, xxxi, 111 pp.   
(Translation largely produced using Google Translate, <https://translate.google.com/>; edited by Earle E. Spamer)
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- 2022 • **Explorer: Andrew J. Carroll on the Colorado River, 1857-1858.** Raven's Perch Media, Philadelphia, vi, 102 pp. 
- 2022 • **Bibliography & Annotated Checklist of Living Organisms First Named from the Grand Canyon and Vicinity (Northwestern Arizona).** Raven's Perch Media, Philadelphia, 194 pp. 


### Papers

- 1979 **A jellyfish in the Canyon.** *Grand Canyon Guide*, 3(1)(March 25): 1, 4. [*Brooksella canyonensis*, a Proterozoic pseudofossil.]
- 1982 **Enigmatic fossils of the Grand Canyon Supergroup (Precambrian) of northern Arizona.** *Delaware Valley Paleontological Society Newsletter*, 4(8)(October): 3-5.
- 1982 **The fossil insects of the Grand Canyon.** *Delaware Valley Paleontological Society Newsletter*, 4(8)(October): 5-6.
- 1982 **The Devil and David White; or, The road to fame and misfortune through static morphology and lack of study.** *Delaware Valley Paleontological Society Newsletter*, 4(10)(December): 4-6.
- 1983 **Taphonomy: How not to collect fossils.** *Delaware Valley Paleontological Society Newsletter*, 5(5)(May): 5-6.
- 1984 **In memoriam: Edwin D. McKee.** *The Mosasaur*, 2: 44.
- 1984 **Paleontology in the Grand Canyon of Arizona: 125 years of lessons and enigmas from the late Precambrian to the present.** *The Mosasaur*, 2: 45-128. 
- 1986 **A paleontological pilgrimage through Philadelphia, the birthplace of American paleontology.** *The Mosasaur*, 3: 181-193.  
(Catherine A. Forster and Earle E. Spamer) 
- 1989 **A historic piece of petrified wood from the Triassic of Arizona.** *The Mosasaur*, 4: 149-152. 
- 1989 **A paleontological pilgrimage through Philadelphia. II. Including notes on the paleontology of Philadelphia.** *The Mosasaur*, 4: 153-163.  
(Earle E. Spamer and Catherine A. Forster) 
- 1993 **Joseph Leidy and the "Great Inventory of Nature."** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 144: 1-19.  
(Susan Glassman, Eugene A. Bolt, Jr., and Earle E. Spamer) 
- 1993 **Time capsule of carcinology: History and resources in the Academy of Natural Sciences of Philadelphia.** Pages 87-98 in Frank Truesdale, ed. *History of Carcinology*. A. A. Balkema, Rotterdam.  
(Earle E. Spamer and Arthur E. Bogan) 
- 1995 • **Sublime stone: Grand Canyon geology after Powell.** *Canyon Legacy*, no. 24: 16-26, back cover. 
- 1997 • **The Canyon Grand by any other name.** *Nature Notes* (Grand Canyon National Park), 13(1): 7-9.
- 1997 **But you're Eddie McKee!** *Plateau Journal*, 1(2)(Winter): 22-36. [Invited contribution. Biographical sketch of geologist and naturalist Edwin D. McKee.]
- 1999 • **Editor's comments.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 149: i-ii. [On the Lewis and Clark Herbarium.]
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- 1999 **Grand vision of Edwin D. McKee.** *GSA Today* (Geological Society of America), 9(11)(November): 18-19. [Invited contribution. Biographical sketch.] 
- 1999 • **Knowlton hop hornbeam revisited.** *Nature Notes* (Grand Canyon National Park), 15(1)(Summer): 3-5. (Nancy J. Brian and Earle E. Spamer)
- 2000 **Knowlton hop-hornbeam revisited (*Ostrya knowltonii* Cov.).** *Bartonia*, no. 60, pp. 49-56.   
(Nancy J. Brian and Earle E. Spamer)
- 2000 **The legacy of “friends of natural science”: A systematic look at the scientific publications of the Academy of Natural Sciences of Philadelphia, 1817-2000.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 150: 3-13. 
- 2000 **Simply grand: Communicating the ideas of river and canyon history in northern Arizona, 1858-2000—when dumbering-down captures, and when it just doesn’t cut it.** Pages i-iii in Richard A. Young, *Abstracts for a working conference on the Cenozoic geologic evolution of the Colorado River system and the erosional chronology of the Grand Canyon region : June 7-9, 2000, Grand Canyon National Park, Arizona* [State University of New York at Geneseo, Geneseo, New York.] [Not an abstract but a complete contribution.] 
- 2003 • **First depiction of Grand Canyon.** *Grand Canyon Historical Society Bulletin*, 7(2)(February): 3.
- 2004 **The Great Extinct Lizard: *Hadrosaurus foulkii*, “first dinosaur” of film and stage.** *The Mosasaur*, 7: 109-126. 
- 2004 **On the paper trail in the Lewis and Clark Herbarium.** *Bartonia*, no. 62, pp. 1-24. [Published February 2005.]   
(Richard M. McCourt and Earle E. Spamer)
- 2004 **The second two hundred years are better: the endearing, enduring plants of Lewis and Clark.** *Bartonia*, no. 62, pp. 95-102. [Published February 2005.] [Invited contribution.]   
(Earle E. Spamer and Richard M. McCourt)
- 2004 • **The botanical legacy of Lewis and Clark: The most famous collection you never heard of.** *Plant Science Bulletin*, 49(4)(Winter): 126-130.   
(Richard M. McCourt and Earle E. Spamer)
- 2004 • **The botanical legacy of Lewis and Clark, The most famous collection (you’ve never heard of).** *Green Scene*, 32(5)(October): 28-32. [Reprinted from *Plant Science Bulletin* with new illustrations.]   
(Richard M. McCourt and Earle E. Spamer)
- 2006 **Pressing matters: The plant collections of Lewis and Clark.** Pages 24-28 in Leslie Exton, Jan Denton, and Wendy Cortesi, eds. *Botanical Treasures of Lewis and Clark: New Art for the Bicentennial*. Corcoran College of Art and Design, Corcoran Gallery of Art (Washington, D.C.).   
(Richard M. McCourt and Earle E. Spamer)
- 2010 **John Winthrop (1714-1779).** Pages 302-307 in Whitfield J. Bell, Jr., *Patriot-improvers; biographical sketches of members of the American Philosophical Society. Volume Three, 1767-1768*. American Philosophical Society, Philadelphia. 
- 2012 **Lewis and Clark’s plants.** Pages 8, 10-11 in: Robert McCracken Peck, Patricia Tyson Stroud, and Rosamond Purcell, *A glorious enterprise; the Academy of Natural Sciences of Philadelphia and the making of American science*. University of Pennsylvania Press, Philadelphia.   
(Rick McCourt and Earle Spamer)
- 2013 **Once again, “Who named the Grand Canyon?”—and other obscure Grand Canyon “firsts”.** *The Ol’ Pioneer* (Journal of the Grand Canyon Historical Society), 24(2)(Spring): 4-16. 




- 2015 **The men from Bass Station vs. Glen Canyon Dam : hunting and rescuing Grand Canyon's most exclusive animal.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 26(1)(Winter): 6-12. 
- 2015 **The other "Woman of the River"—Harriet Strong, the dame would would dam Grand Canyon.** *Boatman's Quarterly Review*, 28(2):24-25. 
- 2015 **About that dinosaur in Havasu Canyon . . .** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 26(3)(Summer):10-12. [Native American petroglyph.] 
- 2015 **Where in the world . . . is the Grand Canyon?** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 26(4)(Fall):13-16.
- 2016 **The Grand Canyon like we've never seen it.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 27(1)(Winter):3-9. 
- 2016 **The men from Bass Station again; or, the Keystone Kops on the Kaibab.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 27(2)(Spring):3-6. 
- 2018 **An ill wind blows: Did John Wesley Powell claim jump the Grand Canyon?** *Boatman's Quarterly Review*, 31(2)(Summer):10-12. 
- 2018 **Demons at the Farlee Hotel.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 29(4) (Fall):3-6. [Translation of the chapter, "Le Grand Cañon", from F. Frédéric Moreau, *Aux États-Unis : notes de voyage* (E. Plon, Nourrit et C<sup>ie</sup>, Paris, 1888), with introductory comments and postscript by Spamer.] 
- 2019 **Quoth the Raven . . .** *Boatman's Quarterly Review*, 32(2)(Summer):24-25. [Regarding the Grand Canyon–Lower Colorado River Bibliography project and Raven's Perch Media; promotion of the 3rd edition of *The Grand Canon*.]
- 2019 **"...bigger than the great tower of Seville": Sizing up the 1540 encounter in Grand Canyon.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 30(3)(Summer):11-12. 
- 2020 **History of paleontological work at Grand Canyon National Park. Up and down the long federal and NGO trails of paleontology in Grand Canyon National Park, 1858-2019.** Pages 11-44 in Vincent L. Santucci and Justin S. Tweet (eds.), *Grand Canyon National Park : centennial paleontological resource inventory* (non-sensitive version). Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103*.) 
- 2021 **History of paleontological work at Grand Canyon National Park—up and down the long federal and NGO trails of paleontology in Grand Canyon National Park, 1858-2019.** Pages 11-32 in Vincent L. Santucci and Justin S. Tweet (eds.), *Grand Canyon National Park centennial paleontological resources inventory; a century of fossil discovery and research*, *Utah Geological Association Special Publication 1*. [Reset reprinting of Spamer (2020). Volume published by Utah Geological Association, in cooperation with U.S. National Park Service.] 
- 2022 **Big Canyon, Great Canyon, Grand Canyon: The mysterious evolution of a name.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 33(1)(Winter):8-18. 
- 2023 **• The life and death of Explorer; excerpt from the [sic] Earle E.[.] Spamer's book Explorer—Andrew J. Carroll on the Colorado River 1857-1858.** *Grapevine News* (Colorado River Historical Society Museum, Bullhead City, Arizona), 4(3) (March): 1-2. [From Spamer (2022; see under Monographs, above). This item not seen by the author prior to publication.]
- 2023 **From end-of-track to black Sunday: Riding the rails to Grand Canyon village's first hotels (1901-1904).** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 34(3) (Summer): 1, 2, 5-12. 
- 2024 **Sara Lemmon and Jane Gray: The first and second non-Indigenous women to reach the bottom of the Grand Canyon.** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 35(3) (Summer): 8-12. 
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## Archives and Archival Theory


- 2004 **What a woven web: archives, websites, and the coming legacy of "light gray literature."** *Provenance*, 20 (2002): 59-71. 







## Collection Guides and Analytical Works Based on Collections

### Monographs

- 1988 **A catalogue of type fossils in the Wagner Free Institute of Science, Philadelphia, Pennsylvania : with a history of paleontology at the Institute.** *Publications of the Wagner Free Institute of Science, Vol. 5.* 116 pp. (Earle E. Spamer and Catherine A. Forster)
- 1991 **Catalog of the types of neontological Mollusca of the Academy of Natural Sciences of Philadelphia. Pt. 6. Gastropoda: Mesogastropoda: Viviparacea, Valvatacea, Littorinacea, Rissoacea (Pt. 1: Adeorbidae, Amnicolidae, Anabathridae, Assimineidae, Barleeidae, Bithyniidae, Caecidae, Cingulopsidae, Elachisinidae, Falsicingulidae).** *Tryonia*, no. 23. 243 pp. (C. Leonard Richardson, Robert Robertson, George M. Davis, and Earle E. Spamer)
- 1992 **Catalog of the types of neontological Mollusca of the Academy of Natural Sciences of Philadelphia. Part 7: Cephalopoda and Scaphopoda.** *Tryonia*, no. 24. 24 pp. (Earle E. Spamer and Arthur E. Bogan)
- 1992 **General Invertebrates Collection of the Academy of Natural Sciences of Philadelphia. Part 1: Guide to the General Invertebrates Collection. Part 2: Annotated catalogue of Recent type specimens: Protozoa, Porifera, Cnidaria, Platyhelminthes, Rotifera, Nemata, Nematomorpha, Annelida, Arthropoda (Merostomata, Pycnogonida, and Crustacea), Brachiopoda, and Echinodermata.** *Tryonia*, no. 26. 305 pp.  (Earle E. Spamer and Arthur E. Bogan)
- 1995 **The surviving component of the Wilhelm Bock Collection of fossils (invertebrates, vertebrates, and plants) held at the Academy of Natural Sciences of Philadelphia.** *Notulae Naturae*, no. 473. 16 pp. 
- 1995 **A study of fossil vertebrate types in the Academy of Natural Sciences of Philadelphia : taxonomic, systematic, and historical perspectives.** *Academy of Natural Sciences of Philadelphia, Special Publication 16.* 434 pp. (Earle E. Spamer, Edward Daeschler, and L. Gay Vostreys-Shapiro)
- 2002 **The Lewis and Clark Herbarium, Academy of Natural Sciences of Philadelphia (PH-LC) : digital imagery study set.** *Academy of Natural Sciences of Philadelphia, Special Publication 19.* CD-ROM. (Earle E. Spamer and Richard M. McCourt)
- 2002 **The Lewis and Clark Herbarium of the Academy of Natural Sciences. Part 2. Saving an American treasure: Preservation of the herbarium on the bicentennial of the expedition.** *Notulae Naturae*, no. 476. 16 pp.  (Richard M. McCourt, Catharine Hawks, and Earle E. Spamer)


### Papers

- 1988 **Catalogue of type specimens of fossil plants in the Academy of Natural Sciences.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 140(1): 1-17. [Revised in 2000.]
- 1989 **Notes on six real and supposed type Triassic fossils from the Newark Supergroup of Pennsylvania.** *The Mosasaur*, 4: 49-52. 


- 1989 **Recovery of the Etheldred Benett collection of fossils mostly from Jurassic-Cretaceous strata of Wiltshire, England, analysis of the taxonomic nomenclature of Benett (1831), and notes and figures of type fossils contained in the collection.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 142: 115-180.   
(Earle E. Spamer, Arthur E. Bogan, and Hugh S. Torrens)
- 1992 **Boxes for dry shell collections.** Pages 186-186 in Carolyn L. Rose and Amparo R. de Torres, eds. *Storage of natural history collections : ideas and practical solutions.* Society for the Preservation of Natural History Collections (n.p.).  
(M. Andria Garback and Earle E. Spamer)
- 1994 **Type specimens of Crustacea surviving in the Guérin-Ménéville Collection, Academy of Natural Sciences of Philadelphia.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 145: 35-46.   
(Earle E. Spamer and Arthur E. Bogan)
- 1995 **Previously unfigured type specimens of fossil fish, reptiles, and mammals in the Academy of Natural Sciences of Philadelphia.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 146: 429-458.   
(Earle E. Spamer and Edward Daeschler)
- 1997 **ANSP—PH : an annotated guide to publications that itemize the nomenclatural types of natural history specimens in the Academy of Natural Sciences of Philadelphia.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 147: 205-225. 
- 1999 **• The Lewis and Clark Herbarium digital library : new futures for an American treasure.** *Lewisia*, no. 3, pp. 6-7.
- 2000 **A national treasure: Accounting for the natural history specimens from the Lewis and Clark Expedition (western North America, 1803–1806) in the Academy of Natural Sciences of Philadelphia.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 150: 47-58.   
(Earle E. Spamer, Richard M. McCourt, Robert Middleton, Edward Gilmore, and Sean B. Duran)
- 2000 **Etheldred Benett of Wiltshire, England, the first lady geologist—Her fossil collection in the Academy of Natural Sciences of Philadelphia, and the rediscovery of “lost” specimens of Jurassic Trigoniidae (Mollusca: Bivalvia) with their soft anatomy preserved.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 150: 59-123.   
(Hugh S. Torrens, Elana Benamy, Edward B. Daeschler, Earle E. Spamer, and Arthur E. Bogan)
- 2000 **Type specimens of fossil plants in the Paleobotany Collection, Academy of Natural Sciences of Philadelphia—Revised catalogue.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 150: 315-328.   
(Earle E. Spamer and James C. Lendemer)

## Original Research in the Natural Sciences







### Monographs

- 2002 **The Lewis and Clark Herbarium of the Academy of Natural Sciences. Part 3. Modern environmental applications of a historic nineteenth century botanical collection.** *Notulae Naturae*, no. 477. 20 pp.   
(Mark A. Teece, Marilyn L. Fogel, Noreen Tuross, Richard M. McCourt, and Earle E. Spamer)



### Papers





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-  2023 • ***The Colorado River of the West: Cartographic Styles of the 16th to 19th Centuries***. Raven's Perch Media, Philadelphia, PDF format online, 208 pp. [Privately published.] 
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-  2023 • ***1956 — A Resource Guide to the Grand Canyon Midair Collision of Trans World Airlines Flight 2 and United Air Lines Flight 718, June 30, 1956***. Raven's Perch Media, Philadelphia, PDF format online, 112 pp. [Privately published.] 
-  2023 • ***Grand Canyon Underground. The Bibliographical Record of Caves in Grand Canyon National Park, Grand Canyon–Parashant National Monument, and Vicinity (Arizona)*** Raven's Perch Media, Philadelphia, PDF format online, 90 pp. [Privately published.] 
-  2024 • ***Miles and Miles of Mules: An Annotated Bibliographical Record of Grand Canyon's Assistants and Equine Associates***. Raven's Perch Media, Philadelphia, PDF format online, 114 pp. [Privately published.] 
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- 2021 [Review of] **Celebrating 100 Years of Grand Canyon National Park: A Gathering of Grand Canyon Historians: Ideas, Arguments, and First-Person Accounts**, Richard D. Quartaroli, compiler, ed. (Grand Canyon Conservancy, 2020). *Boatman’s Quarterly Review*, 34(1)(Spring): 5-6.
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- 1988 **Freshwater bivalves (Bivalvia: Unionidae) from the Pleistocene Fish House Clay, Pennsauken, New Jersey.** *American Malacological Union, 54th Annual Meeting, Program and Abstracts*, Charleston, South Carolina, p. 26.  
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- 2000 **Saving an American treasure: Restoring the herbarium of the Lewis and Clark expedition.** *Botany 2000 (American Journal of Botany, 87(6)(Supplement))*: 65.  
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- 1984 • **DVPS: The next two years.** *Delaware Valley Paleontological Society Newsletter*, 7(1)(September): 8.
- 1990 • **A discovery in Philadelphia.** *Society for the History of Natural History, Newsletter* 38, p. 8. [Guérin-Méneville Collection of Crustacea, Academy of Natural Sciences of Philadelphia.]
- 1990 • **Guerin-Meneville Collection at the Philadelphia Academy of Sciences.** *The Ecdysiast*, 9(2)(August): 9. [Report of rediscovery.]
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- 1993 • **Transfer of ANSP petrologic collection.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 144: 343-345. [Notice of transfer from Academy of Natural Sciences to the Wagner Free Institute of Science.]  
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- 2008 **The Library Resident Research Fellowships.** *News From Philosophical Hall* (American Philosophical Society, Philadelphia), 11(2)(Autumn): 8.

## Popular Works and Essays




*NOTE:* The *Journal of Irreproducible Results* and its successor, *Annals of Improbable Research*, both based in Cambridge, MA, are journals devoted to (as described by AIR) "research that makes people *laugh* and then *think*." I have been a frequent contributor and have been a member of the *Annals'* editorial board since its inception in 1995, a board that includes several Nobel Laureates. The *Annals'* annual Ig Nobel Prize ceremonies, held at Harvard University, are web-streamed and aired on National Public Radio. (According to the AIR website, the prizes "are intended to celebrate the unusual, honor the imaginative—and spur people's interest in science, medicine, and technology"; they are "physically handed out by genuinely bemused genuine Nobel Laureates.")

- 1991 **Preserving the Grand Canyon: Final Report.** *Journal of Irreproducible Results*, 36(5): 4-6.   
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- 1995 • **Strange bedfellows: W. W. Bass and the Endangered Species Act.** *Nature Notes* (Grand Canyon National Park), 11(3): 10-11. 
- 1995 **The taxonomy of Barney: Evidence of convergence in hominid evolution.** *Annals of Improbable Research*, 1(1): 3-7. [Invited contribution to the inaugural issue.]  
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**Reprinted:** Pages 51-57 in Marc Abrahams, ed. *The best of Annals of Improbable Research (AIR)*. W. H. Freeman and Co., New York, 1997.  
**Translated:** Zur taxonomischen Zuordnung von Barney : anzeichen für Konvergenz in der Hominidenevolution. Pages 102-109 in Marc Abrahams, Hg. *Der Einfluß von Erdnußbutter auf die Erdrotation : forschungen, die die Welt nicht bracht Best of Improbable Research* (aus dem Amerikansischen von Dr. Gabriele Herbst). Birkhäuser Verlag, Basel, 1999. [In German.]  
**Translated:** La tassonomia di Barney : dimostrata una convergenz nell'evoluzione degli ominidi. Pages 163-174 in Marc Abrahams, ed. *La scienza impossibile : il meglio degli "Annals of Improbable Research"* (traduzione deall'inglese di Sylvie Coyaud). Garzanti, Milano, 1999. [In Italian.]  
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- 1995 **The Okamura Fossil Laboratory.** *Annals of Improbable Research*, 1(4): cover, 4-9.   
**Reprinted:** in Marc Abrahams, ed. *The best of Annals of Improbable Research (AIR)*. W. H. Freeman and Co., New York, 1997.  
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- 1996 **Preserving the Grand Canyon: Final Report.** *Nature Notes* (Grand Canyon National Park), 12(1) (Spring 1996): 1-3. [Reprinted from *Journal of Irreproducible Results*, 1991, with new illustrations.]
- 1996 • **Fill 'er up!** *Boatman's Quarterly Review*, 9(2): 12-13. [Abridged from *Journal of Irreproducible Results*, 1991.]
- 1996 **Was Darwin nearly right?** *Annals of Improbable Research*, 2(4): 3-6. 
- 1996 **Academy helps save habitat of endangered snail.** *Explore* (Academy of Natural Sciences of Philadelphia), 2(1): 3. [Kanab Ambersnail in Grand Canyon.]
- 1996 **Doin' the canyon shuffle.** *Boatman's Quarterly Review*, 9(3): 6-7. [Grand Canyon nomenclature.]  
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- 1997 **"I have come here to see the Grand Canyon . . ." (by Theodore Roosevelt, introduction by Earle Spamer).** *The Ol' Pioneer* (Journal of the Grand Canyon Historical Society), 8(7)(Summer): 12-15.
- 1997 **The Grand Canyon—Further final report, and users' guide.** *Annals of Improbable Research*, 3(4): 15-18. 
- 1998 **Birthplace of paleontology.** Pages 1-3 in Carolyn Belardo, ed. *Dinosaurs invade Philadelphia*. Academy of Natural Sciences of Philadelphia. [Academy of Natural Sciences, Dinofest™ publication.]
- 1998 • **Something old, something new.** *Lewisia*, no. 1, p. 4. [*Ostrya knowltonii* in Grand Canyon.]



- 1998 • **Circumventing Captain Cook: A high seas botanist beats the system: Johann George Adam Forster.** *Lewisia*, no. 2, pp. 1, 3-5. [The Forsters, father and son botanical collectors on Cook's second circumnavigation, some of whose specimens are held in the Academy of Natural Sciences of Philadelphia.] 
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- 2000 • **Editor's introduction. CL: Another milestone.** *Proceedings of the Academy of Natural Sciences of Philadelphia*, 150: i-ii. [On Volume 150 and the year 2000.]
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- 2001 **Pycnogonids rising: the answer to sea-level rise and water on Mars.** *Annals of Improbable Research*, 7(5)(September/October): 19-22.  
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- 2002 **The skull of poor old Cope.** *Annals of Improbable Research*, 8(4)(July/August): 12-14. [Regarding Edward D. Cope, vertebrate paleontologist, herpetologist, and ichthyologist.] 
- 2004 • **The Colorado River by the book : a seldom seen confession.** [Flagstaff, Arizona]: Fretwater Press. 8 pp. [Companion pamphlet to two bibliographies newly published by Fretwater.] 
- 2006 **Is the Grand Canyon a fake?** *Annals of Improbable Research*, 12(2)(March/April): 18-22. 
- 2006 **Other Grand Canyons: Incarnations around the world and on other worlds.** *Annals of Improbable Research*, 12(2)(March/April): 24-25.
- 2010 **What lies behind the Grand Canyon?** *Annals of Improbable Research*, 16(5)(September/October): cover, 1, 6-10. 

## Reports on Computer and Digital Technologies

### Commercially produced publications

1978–1983

#### Auerbach Publishers, Pennsauken, New Jersey

*Monthly updated reference services and news items in several series. The following are those that I had authored (without byline):*

#### **Auerbach Reporter:**

- "IBM's New Model K Is No K-Kar," *Auerbach Reporter*, December 1981.
- "3081 vs 580: Round 2," *Auerbach Reporter*, January 1982.
- "Mainframers on the March Again," *Auerbach Reporter*, February 1982.
- "IBM Goes Off the Top," *Auerbach Reporter*, May 1982.
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**Data Center Dialog:**

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**Auerbach Computer Technology Reports : Mainframes, 1980-1983:**

*I was Project Editor for the "Mainframes" product series. These particular titles were written or compiled by me (without byline but with volume title-sheet acknowledgment). (Dates of publication or update were indicated on each document by code.)*

**[Commentary]**

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Specification Chart. Mainframes, Japanese Manufacturers.

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## 1983–1985

**Data Decisions (A Ziff-Davis Company), Cherry Hill, New Jersey**

Monthly updated reference services and news items.

[Numerous publications, copies of which are not held by me and titles not recorded. Business sold by Ziff-Davis to DataPro, 1985.]

**Other publications about computers**

- 1981 **Distinction helpful for minis, mainframes: variables actually “qualifiers.”** *Computerworld*, 15(30)(July 27, Special Report section): SR4, SR10.

(David Anthony, Thomas O'Connell, and Earle Spamer)

**Translated:** Speichergröße, Wortlänge und Preis teilen ein: Grenzen zwischen Rechnern verschwimmen [Memory size, word length and price share: boundaries between computers blur]. *Computerwoche* (München), (35)(August 28, 1981). [In German.]

## Genealogical Publications

- 2008 • ***Geneology and historical notes of Spamer and Smith families of Maryland : principal and collateral lineages with notes about people, places and events internationally but mainly in Maryland, Delaware and Pennsylvania.*** Earle E. Spamer, [no place]. 2228 pp. + interleaved illustrations. [Privately published.]

*General Introduction*, xvii pp.

*Part I. The Spammers of Baltimore : Emigrants to U.S. from Germany by 1830-1832*, 453 pp. + interleaved illustration pages.

*Part II: The Smiths of the Eastern Shore : Established in old Talbot County, Maryland, by 1683*, 730 pp. + interleaved illustration pages.


*Appendices*, 63, 267 pp. + interleaved illustration pages.

*Additions and Corrections* [to 2011], clxxxv, clxxviii, viii, iv pp.

*Concise Index to Parts I and II*, 41 pp.

*Comprehensive Index*, 284 pp., with “Addendum”, 15 pp.

Public deposits: Maryland Historical Society; Historical Society of Baltimore County; Baltimore County Genealogical Society.


- 2010 • ***The Smith Family from Maryland : an illustrated narrative genealogy, 1600s-1900s : with separate chapters for the Spamer Family from Maryland, Sevil Family from Delaware, Potts Family from Pennsylvania, Martel Family from Québec and New England .*** Earle E. Spamer, [no place]. 522 pp. [Privately published.] 

- 2011 • ***Geneology and historical notes of Spamer and Smith families of Maryland : principal and collateral lineages with notes about people, places and events internationally but mainly in Maryland, Delaware and Pennsylvania.*** Earle E. Spamer, [no place]. PDF format on CD-ROM, 2804 pp. [including interleaved illustrations]. [Privately published.]

Texts of the 2008 edition (see above), here with interleaved illustration pages. Texts embed hyperlinks that link to supplementary “Additions and Corrections”. Disk also adds a contents guide, family trees, comprehensive index, and facsimile documents by earlier family historians; and adds the text of the 2010 *Illustrated Narrative Genealogy* for the Smith family (see above).

Public deposits: FamilySearch (Salt Lake City); Maryland Historical Society; Historical Society of Baltimore County; Baltimore County Genealogical Society

PDFs online:

Front Matter 

Spamer Family 

Smith Family 

Appendix 1 

Comprehensive Index 

- 2021 • ***Genealogy and Historical Notes of Spamer and Smith Families of Maryland, 17th-20th Centuries : New Consolidated Edition.*** Philadelphia: Raven's Perch Media, 3460 pp. [including interleaved illustrations] : Portable Document Format (PDF with hyperlinks); electronic resource. [Privately published.]  
Complete texts of the 2008–2011 editions *combined*, including the "Illustrated Narrative Genealogy" (above); with a few minor updates.  
Registered electronically with the U.S. Copyright Office May 2021.

### Unpublished Reports

- 1987 **Taphonomy of the Ellisdale dinosaur site, Cretaceous of New Jersey.** (Final report on National Geographic grant 3299-86). New Jersey State Museum (Trenton). 92+ pp.  
(David C. Parris, Barbara Grandstaff, Robert Denton, Jr., William B. Gallagher, Craig DeTample, Shirley S. Albright, Earle E. Spamer, and Donald Baird)
- 1989 ***Hirudo marmorata* Say, 1824 (Annelida, Hirudinea, Hirudinidae): proposed conservation.** [International Commission on Zoological Nomenclature Case No. 2741; resolved 1990 by Executive Secretary of ICZN.]  
(Earle E. Spamer and Arthur E. Bogan)
- 1991 **Mollusca of the Colorado River corridor, Grand Canyon National Park : with an overview of mollusks of the Grand Canyon region.** *Report submitted to:* Dean W. Blinn, Principal Investigator, Northern Arizona University, as part of the U.S. Bureau of Reclamation, Glen Canyon Environmental Studies: U.S. National Park Service Cooperative Agreement no. CA-8009-8-0002.  
(Earle E. Spamer and Arthur E. Bogan)

