

CURRICULUM VITAE

SALLY Y. SHELTON

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Heritage and Museum Sciences
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EDUCATION

Postgraduate diploma in geological conservation, Geological Conservation Unit, Sedgwick Museum, Cambridge University, UK, 1993

Master of Arts in Museum Science with thesis in paleontology, Texas Tech University, 1984

Bachelor of Science in Wildlife and Fisheries Sciences, Museum Science option Texas A&M University, 1979

MUSEUM EXPERIENCE

2020-present

Associate professor of practice and associate chair, Heritage and Museum Sciences, Museum of Texas Tech University

- Graduate advisor and associate chair for master's program.
- Faculty for preventive conservation, collections documentation, and associated courses.

2008-2019

Associate director and collections manager, Museum of Geology, and Instructor, Geology and Geological Engineering Department, South Dakota School of Mines and Technology

- Responsible for all matters pertaining to the organization and conservation of the collections of the Museum of Geology.
- Manage collection policies and other collection protocols.
- Work with all aspects of new building design and collections move planning.
- Assure compliance with current federal policies and practices regarding collections care and control.
- Responsible for maintaining permits, agreements and positive partnerships with federal, state, tribal, and private entities to secure funding, support, and care of the collections.
- Develop and teach undergraduate and graduate courses in museum curation, conservation, and paleontology resource management.
- Serve as faculty adviser for museum-related student activities.

1998-2008

National Museum of Natural History, Smithsonian Institution Collections Officer, Directorate of Research and Collections

- Responsible for museum-wide collections policy and management issues, development of staff training programs in collections management and documentation, monthly collections management roundtable meetings, and related activities.
- Work with administration, scientists and collections managers on facilitation of a wide range of issues and problems, including storage, case replacement, moves, legal issues, policy preparation, repository issues, and funding.
- Developed curriculum in scientific permits training as well as permits management system for NMNH.
- Developed NMNH Collections Fact Book for use by administration and development staff.
- Invited lecturer on paleontology collections care and conservation for NMNH's Paleontology Training Program.
- Lectured on scientific collections issues, collections conservation and international permits in the museum studies graduate program at George Washington University, the Winterthur conservation program and the College Park Scholars Program at the University of Maryland, as well as the American Museum of Natural History, Milwaukee Public Museum, Department of Interior Museum Management Program and the American Association of Museums' Collections Stewardship course.
- Work with Collections Committee on development of collections profiling index for quantitative reporting of collections needs.
- Served on collections management review team, Natural History Museum, London, 2001.
- Overall coordinator for successful NMNH reaccreditation by the American Association of Museums, 2004-5.
- Appointed to Institutional Animal Care and Use Committee, 2007.
- Consultant on museum management plan prepared for John Day Fossil Beds National Monument, National Park Service, 2007.

1994-1998

San Diego Natural History Museum Director, Collections Care and Conservation

- First conservation professional on staff in a museum with 7 million specimens catalogued. Responsible for materials and storage upgrades, collections rehousing, and staff training.
- Collections-oriented input on architectural and conceptual designs for museum building addition.
- Management-level responsibility for collections care. Wrote collections policy and long-range conservation plan; co-wrote ethics policy.
- Coordinated all phases of successful AAM reaccreditation
- Provided public lectures and worked with education department public classes and programs at all grade levels, including on-and off-site programs in paleontology, herpetology, mineralogy, and on-board interpretation for whale-watching trips.
- Co-wrote successful IMLS-GOS grant (1996).
- Coordinated IMS conservation survey and wrote long-term conservation plans.
- Managed collections budgets and grants.

- Planned, coordinated and directed workshop on Federal and international scientific collecting permits (co-sponsored by Association of Systematics Collections).
- Coordinated workshop on endangered herpetological species of the area.
- Coordinated upgrade of mineralogy range management and documentation.
- Responsible for establishing environmental and pest monitoring programs, including software for data tracking and report generation.

GRANTS AND AWARDS

Grantor	Date	\$	Purpose	Role	Comments
DOI-National Park Service, Badlands National Park	2007-2009	\$35,000.00	Support of collections assistant for digitization and curation of National Park Service repository collections at SSDM	Co-PI and supervisor (assumed management after my arrival in 2008)	Successfully concluded. Over 10,000 specimens curated, digitized, and prepared for move to new collections building in 2011-2013. Final report sent to BADL at EOY 2009.
Standing Rock Sioux Tribe	2006-2008	\$12,000.00	Survey of paleontological resources at Standing Rock, to aid in the development of a comprehensive tribal resource management plan	Final report development and submission	This grant was concluded before my arrival, but it was my responsibility in 2008 to close it out, write the final report, return materials to SRST, and set up management plan recommendations and legal agreements for any future work
Doyle Foundation	2010-2012	\$750,000.00	Collection compactors, large equipment, floor map, and other supplies for new PRL building not included in state contract	Co-PI (sole PI after Dec. 2010)	Successfully concluded. Enabled complete compactorization of library and archives collections, as well as of 1 specimen collection, and purchase of necessary equipment for building management.
AAM-MAP	2011	Agency support of on-site reviewer	Institutional MAP visit and report	PI	Successfully concluded. Report information used in multiple applications and information reports.
AAM-MAP	2012	Agency support of on-site reviewer	Collections MAP visit and report	PI	Successfully concluded. Report information used in multiple applications and information reports.

Grantor	Date	\$	Purpose	Role	Comments
AAM/HP-CAP	2012	Agency support of 2 on-site reviewers	Conservation Assessment Program to survey all collections (specimens, archives, and library) as well as the historic campus building housing exhibits (first historic building assessment for campus)	Co-PI	Successfully concluded. Report information used in multiple applications and information reports.
DOI-National Park Service, Dinosaur National Monument	2012-2014		Assessment of new site building and development of recommendations for monitoring	PI	Successfully concluded.
DOI Bureau of Reclamation	2011-2013	\$38,000.00	Support of collections assistant for digitization and curation of Bureau of Reclamation repository collections at SSDM	PI and supervisor (1 student hired and trained)	Successfully concluded. Over 300 specimens curated, moved to new collections building in 2011-2013, rehoused and digitized in parallel work to the IMLS grant below. Resulted in a major student senior research project under my direction.
IMLS Museums for America	2013-2016	\$150,000.00	Student assistantships for curation and digitization of all specimen, historic, and archival collections related to the exploration of Cretaceous marine fossils in the region from early 1900s to the present	Co-PI and co-supervisor (7 students hired and trained)	Successfully concluded. Resulted in the curation of over 200,000 specimen and archives data files to date, online exhibits, and other resources. Used in consultation for exhibit at the Journey Museum. Will be used in consultation for new exhibit at the Deadwood Adams Historic Museum in 2017.
National Science Foundation-- Collections in Support of Biological Research (CSBR) and Department of Biological Infrastructure (DBI	2014-2017	\$500,000.00	2 grants for curation and digitization of newly acquired fossil and modern invertebrate collections	Co-PI and co-supervisor (8 students hired and trained)	Successfully concluded. Resulted in the digitization of over 100,000 specimens and associated archival records, online and in-house exhibit upgrades about conservation paleobiology, and other resources. Enabled curation of a large historic shell collection donated by museum at the former Springfield Normal College (college is no longer in existence).

Grantor	Date	\$	Purpose	Role	Comments
Bureau of Land Management, Fossil Cycad Historic Site	2014-2016	\$8,000.00	Curation and digitization of the historic collection of fossil cycad plants for a former NPS unit now under the administration of BLM	Co-PI, supervisor, and class instructor (2 students hired and trained, 12 students participated in development of site management plan)	Successfully concluded with a complete resource management plan submitted to BLM as part of a graduate class project. The collection of 300 specimens is digitized. This is a small but historically significant collection linked to a larger collection at Yale Peabody Museum; this grant has allowed the 2 institutions to share information online.
Bureau of Land Management, Fossil Cycad Historic Site	2016	\$3,000.00	Purchase of steel storage cases and other supplies to continue curation of the fossil cycad collection	Co-PI	Successfully concluded. Smaller specimens are stored to archival standards and fully curated; very large specimens are curated and are being moved to secure shelf storage.
National Science Foundation	2017-2020	\$200,000.00	Thematic Collections Network (TCN) for digitization of Cretaceous fossils and related archives	Co-PI	Began in 2017. This will link our research resources with those of a number of related institutions across the country, and will enable us to curate the historic fossil collections and related archives from the University of South Dakota at Vermillion (over 15,000 items).

RELATED EXPERIENCE

2001-2003

American Association of Museums: Professional Workshop on Collections Stewardship Issues

Course co-organizer and co-lecturer

2000-2003

Smithsonian Center for Education and Museum Studies: Introduction to the Management of Museum Collections

Course organizing faculty member and lecturer

1994-1998

International Academic Projects, London

Course lecturer

Lecturer for courses in Care of Collections, Biodeterioration, Identification of Museum Materials, Preventive Conservation of Geological Materials, Advanced Conservation of Geological Materials, Conservation of Geological Sites, Identification of Geological Materials, and Anoxic Microenvironments.

Co-developed latter six courses and training materials. Courses held in San Diego and in several units of the National Park Service.

1993-1994

International Centre for the Study of the Preservation and the Restoration of Cultural Property (ICCROM)

Scientific Principles of Conservation course: Rome

Visiting lecturer

Lectured on biodeterioration, collections care and disaster planning.

PROFESSIONAL DEVELOPMENT

1987

Collections Care Pilot Training Project

Natural History Museum of Los Angeles County, supported by NIC and Bay Foundation Research project: radioactivity in vertebrate fossils

1993

Geological Conservation postgraduate diploma course

Geological Conservation Unit, Sedgwick Museum, Cambridge University

Portfolio work: conservation of meteorites in museum collections; developing and refining tests for measuring mercury emissions from minerals; conservation of fossil bone in volcanic ash

1996

Second Symposium and World Congress on Natural History Collections Cambridge, United Kingdom Delegate; coordinator of workshop on international fundraising for collections care support

2002

5th conference on international wildlife law issues NMNH delegate and PERMIT-L representative

PROFESSIONAL AFFILIATIONS

Institute of Museum and Library Services, Museums for America Grant Program

- Panel Reviewer, 2017-present

Society for the Preservation of Natural History Collections

- Chair, Legislation and Regulations Committee, 2008-present. • Past President and Chair, By-Laws Committee, 2000-2002
- resident and Chair, Executive Committee, 1998-2000
- President-Elect and Chair, Conference Committee, 1996-1998
- Council Member-at-large, 1993-1996
- Conservation Committee
- Publications Committee, 1994-98; Leaflets founding editor, 1995-1998

San Diego Archaeological Center (archaeological repository for San Diego County)

- Board member (appointed) 1997-1998 • Accessions Committee, 1997-1998

Association of Systematics Collections

- Biosystematics and the Law Committee (appointed), 1997

American Association of Museums

- Museum Assessment Program Advisory Board, 2000-2004; chair, 2002-2004
- MAP surveyor
- Accreditation Visiting Committee member

SPECIAL PROJECTS

Society for the Preservation of Natural History Collections

- 1993: Presented paper at special session on flood effects and disaster recovery at the Texas A&M University Cooperative Wildlife Collection.
- 1996: Workshop committee member for session on the valuation and appraisal of natural history
- 1997: Workshop committee member for session on collections management and administration.
- 1998: Workshop committee member for session on moving collections.
- 1999: Conference co-chair and organizer for annual meeting.
- 2013: Conference chair and organizer for annual meeting.

Texas Association of Museums

- 1989: Chaired panel on problems facing registrars and curators in natural science collections, including legal issues; panel coordinator for session on the uses and concerns of living collections.
- 1991: Panel chair for session on conservation surveys; panelist for discussion of TAM resource sharing project. Coordinator of pre-conference workshop on legal aspects of collections.
- 1993: Panel chair for session on the issues and problems surrounding the protection of fossils and fossil sites.
- 1994: Panel chair for session on conservation, legal, and ethical concerns affecting taxidermy and trophy mount collections; panelist for session on the popular perception of museums as reflected in modern literature.
- 1995: Panelist for session on problems associated with controversial or offensive material in museum collections.
- 1996: Panelist for sessions on the value and valuation of natural history collections and on the popular perception of museums as reflected in cinema.
- 1997: Panelist for session on the contributions of amateurs in archaeology and paleontology.

Mountain-Plains Museum Association

- 1989: Panelist for session on documentation needs in natural science collections.
- 1990: Coordinated special double session on the legislation, resources, and agencies protecting specimens and sites of paleontological and geological interest.
- 2010: panelist for session on museum documentation
- 2011: Panelist for session on geological collections.

American Association of Museums Annual Meeting

- 1998: Panelist for session on the use of anoxic and microclimate designs for exhibit cases.
- 2001: Panelist for session on found-in-collection problems (co-sponsored by the Registrars' Committee, AAM)

Association of College and University Museums and Galleries

- 1991: Planned and chaired session on the ethics of conserving natural history collections.

Society of Vertebrate Paleontology

- 1993: Presented professional update paper on consolidants and adhesives used in archeology and paleontology.
- 1997: Presented paper on product testing of adhesives and consolidants.

Paleontology on Public lands Association

Fourth Conference on Fossil Resources

- Presented paper on fossil and geological conservation for conference on dealing with fossil resources on US public lands.

Fifth Conference on Fossil Resources

- Invited presenter for session on field conservation and microenvironmental storage systems.

Ninth Conference on Fossil Resources

- Conference chair and organizer. Co-chaired symposium on history of Fossil Cycad National Monument

Tenth Conference on Fossil Resources

- Organizing committee. Chaired session on Native perceptions of fossils and collecting.

International Conference on the Value and Valuation of Natural Science Collections, 1995 (Manchester, UK)

- Topic of presentation: the effect of high market prices on the value and valuation of vertebrate fossils. (Sole representative from the United States)

Society for the Advancement of Material and Process Engineering, 27th International SAMPE Technical Conference, Albuquerque, 1995

- Invited paper: "Putting the pieces together: fossils, polymers, and the interpretation of extinct life in museums."

First Conference on Partnership Opportunities for Federally Associated Collections, Berkeley, 1996

- Presented paper on collections valuation and management of Federal collections in non-Federal repositories; moderated panel on partnerships in collections management.

Second Conference on Partnership Opportunities for Federally Associated Collections, San Diego, 1998

- Initial coordinator and local committee member for Department of Interior workshop on the management of Federally associated collections housed in non-Federal institutions; invited presentation on environmental concerns in repositories.

Third Conference on Partnership Opportunities for Federally Associated Collections, Austin, 2000

- Coordinator and presenter at permits workshop; coordinator of panel on NMNH profiling project; panelist for sessions on Department of the Interior report on fossils on public lands, and on paleontological outreach programs for Native Americans.

Western Society of Malacologists, 1996

- Invited presentation on the history of the understanding and prevention of Byne's "disease" in malacological collections. (Published in Festivus newsletter)

California Association of Museums, 1996

- Panelist for session on new uses of computer technology in museums (presentation on SDNHM use of computer-video conferencing technology to provide instruction to rural high school science classes)

Second World Congress on Natural History Collections, Cambridge, United Kingdom, 1996

- Workshop coordinator for session on funding for collections conservation outside the First World countries; co-speaker for presentation on the future of natural history conservation.

Entomology Collections Network, 1997

- Invited speaker on the subject of Federal and international scientific permits.

Museum Trustees Association, 1996

- Panelist for session on the responsibilities of trustees, collections staff and conservators for the care and conservation of museum collections.

Federal and International Permits Workshop, San Diego, 1997

- Organizer and coordinator of international meeting on the crisis in permits for international scientific collecting (with the Association of Systematics Collections).

Declining Amphibians and Reptiles of California, 1997

- Co-organizer of symposium on the causes of herpetological population declines in California.

Society for California Archaeology, 1998

- Panelist for session: "Curation: Can We Afford It?"

American Association for State and Local History, 1999

- Panelist for sessions on identification, care, and use of radioactive objects in collections, and on the issues surrounding controversial or sensational objects in collections.

North American Paleontological Convention, 2001

- Panelist for session on Federal lands and vertebrate fossil resources (DOI report to Congress)

National Science Collections Alliance (was Association of Systematics Collections)

- 2000: Panel coordinator and moderator on the development of policies for genetic resource collections in museums.
- 2001: Panel coordinator and moderator for professional update on wildlife laws and permits.
- 2002: Panel coordinator and moderator for session on collections metrics (with Smithsonian Institution and National Institutes of Health); steering committee

Department of the Interior Museum Management Program and National Park Service

- Managing Museum Property, 2001, Patuxent, MD Lecturer on museum environmental monitoring

Curation of Natural History Collections, 2005-present

- Course co-organizer and lecturer on laws and mandates, museum environmental monitoring and planning for curation of collections

PUBLICATIONS

Shelton, S. Y. 1984. Parasuchid reptiles of the Triassic Dockum Group of West Texas. MA thesis, Texas Tech University.

_____. 1985. Review of Cacti of Texas. Texas Association of Museums Quarterly.

_____. 1986. Review of Museums and Anthropology: Acquisitions, Collections, Research. Association of Systematics Collections Newsletter.

_____. 1987. Radioactive material in vertebrate fossil collections. Report to Collections Care Pilot Training Project.

_____ and J. S. Buckley. 1990. No bones about it: observations on enzyme preparation effects. Collection Forum 6(2): 76-81.

_____ and R. H. Rainey. 1990. Review of A Handbook of Paleo-Preparation Techniques. Collection Forum 6(2): 101-102.

_____. 1991. Forward into the past: a century of change in vertebrate paleontology collections. In Natural history museums: directions for growth. Ed. P. S. Cato and C. Jones. Texas Tech University Press: pp. 105-113. Proceedings of natural history symposium, Mountain-Plains Museum Association, 1988.

_____, R. C. Barnett, and M. D. Magruder. 1993. Conservation of a dinosaur trackway exhibit. Collection Forum 9(1):17-26.

_____, J. S. Buckley, and S. S. Gainer. 1993. The Shoal Creek plesiosaur discovery (original instructional video). Austin Community College.

_____. 1994. Conservation of vertebrate paleontology collections. In Handbook of vertebrate paleontology techniques, ed. P. Leiggi and P. May. Cambridge University Press. pp. 3-33.

_____ and D. Chaney. 1994. Adhesives and consolidants in vertebrate paleontology. In Handbook of vertebrate paleontology techniques, ed. P. Leiggi and P. May. Cambridge University Press. pp. 34-45.

_____ and J. S. Johnson. 1995. Conservation of subfossil bone. In Conservation of palaeontological materials, ed. C. Collins. Butterworths (London). pp. 59-72.

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- _____. 1997. Murder in the museum: a case of natural selection? (invited lecture) In *The Value and Valuation of Natural Science Collections*, ed. J. R. Nudds and C. W. Pettit. London: The Geological Society. pp. 265-268.
- _____. 1997. Review of Collecting the natural world: legal requirements and personal liability for collecting plants, animals, rocks, minerals and fossils. *American Paleontologist* 5(2).
- _____, P. S. Cato, and P. Unitt. 1997. Proceedings of the symposium on Federal and international scientific permits. San Diego Natural History Museum.
- _____. 2008. Byne's "disease" and care of specimens in storage. National Park Service: Conserv O Gram series.
- McDonald, H.G., A. Elder and S.Y. Shelton. 2005. Care of Paleontological Collections. National Park Service, Museum Handbook, Part 1, Museum Collections, Appendix U:1-52.
- Parris, D.C., Shelton, S.Y., and Martin, James E., 2007. Introduction to the geology and paleontology of the Late Cretaceous marine deposits of the Dakotas. IN Martin, J.E. and Parris, D.C. (eds.) *Geology and Paleontology of the Late Cretaceous Marine Deposits of the Dakotas: Geological Society of America, Special Paper 427*.
- Reinthal, Elizabeth; O'Connor, Conni; Meyer, Herb; McDonald, H. Gregory; Shelton, Sally; and Falkner, Heather. 2015. Stabilizing the Paper Shale at Florissant Fossil Beds National Monument, CO: Controlling Relative Humidity to Preserve Collections. 2015 Fossil Preparation and Collections Symposium, Raleigh, NC.
- Welsh, Ed, and Shelton, Sally. 2015. Significant contributions to paleontology in 100 years of the South Dakota Academy of Science. *Proceedings of the South Dakota Academy of Science* 94: 91-104.