

**Susan E. Ward Aber, Ph.D.**  
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## **DEGREES AND PROFESSIONAL CERTIFICATION**

Ph.D. in Library and Information Management: Emporia State University, Emporia, KS, May 2005. Dissertation: *Information Needs and Behaviors of Geoscience Educators: A Grounded Theory Study*, 367 p.

Professional Gemologist: Gemological Institute of America, Carlsbad, CA, 1987; Diamond Certificate, 1981; Colored Stones Certificate, 1986; Gold and Precious Metals Certificate, 1994.

B.S. in Geology: University of Kansas, Lawrence, KS, 1977; graduate study on building-stone properties, 1977-1978.

## **HONORS**

2005 Association of College & Research Libraries Doctoral Dissertation Fellowship, awarded for my research scholarship.

Amber webpages review in *Science* magazine. Leslie, M., 2005. NetWatch: Trapped forever. *Science*, 309, p. 857.

Coauthor (with J.S. Aber) of kite aerial photograph entitled "Autumn Color, Estonian Bog," 2005 First Place in the Photography category of the Science & Engineering Visualization Challenge from the National Science Foundation & American Association for Advancement of Science. 2005 Visualization challenge: Photography. *Science*, 309 (5743), p. 1991.

## **ACADEMIC EMPLOYMENT HISTORY**

Lecturer: School of Library and Information Science, San José State University, San José, CA, 2008-present.

Lecturer: North Carolina Central University, Durham, NC, School of Library and Information Sciences, 2010-present.

Lecturer: Earth Science Department, Emporia State University, Emporia, Kansas, 1988-present.

Manager: University Libraries and Archives Federal Depository Map Library, Earth Science Departmental Map Collection, Emporia State University, Emporia, Kansas, 1997-present.

National Faculty: School of Library and Information Management, Emporia State University, 2007.

## **COURSES TAUGHT**

Resources and Information Services in the Disciplines and Professions: Science and Technology; distance mode, ANGEL Learning Management, <http://slisapps.sjsu.edu/gss/ajax/showSheet.php?id=1018> and Desire2Learn Learning Management Software, with synchronous video sessions in Elluminate and Collaborate

Resources and Information Services in the Disciplines and Professions: Maps and Geographic Information Systems; distance mode, ANGEL Learning Management Software, <http://slisapps.sjsu.edu/gss/ajax/showSheet.php?id=3624> and Desire2Learn Learning Management Software, with synchronous video sessions in Elluminate and Collaborate

Science and Technology Resources and Services; distance mode, Blackboard Learning Management Software, <http://www.nccuslis.org/distancelearning/schfal1dl.htm>

Information Transfer in the Disciplines; distance mode, Blackboard Learning Management Software, <http://academic.emporia.edu/abersusa/835/>

Special Topics in Information Transfer: GIS and Map Librarianship; distance mode, Blackboard Learning Management Software, <http://academic.emporia.edu/abersusa/gis>

Rocks/Minerals; campus with online enhancement, [www.emporia.edu/earthsci/amber/go324/](http://www.emporia.edu/earthsci/amber/go324/)

Gemstones and Gemology; campus and distance mode, Blackboard and Webpage lectures: [www.emporia.edu/earthsci/amber/go340](http://www.emporia.edu/earthsci/amber/go340)

Introduction to Earth Science Lab; campus with online enhancement, [www.emporia.edu/earthsci/amber/es111](http://www.emporia.edu/earthsci/amber/es111)

Hand Specimen Petrology; campus with online enhancement, [www.emporia.edu/earthsci/amber/go240](http://www.emporia.edu/earthsci/amber/go240)

Mineralogy; campus with online enhancement, [www.emporia.edu/earthsci/amber/go336](http://www.emporia.edu/earthsci/amber/go336)

## **INTERNATIONAL EXPERIENCE**

Lived for extended periods and conducted research: Denmark (1979), Canada (1984), Norway (1987), Poland (1993), Estonia (2000), and Slovakia (2007).

Attended, traveled, and/or presented at conferences: Austria (2007), Canada (1984, 1985, 1986, 1994, 2010), Denmark (1979, 1982, 1987, 1993, 2004, 2005), England (1991, 1994), Estonia (2000, 2001), Germany (1979, 2004, 2007), Ireland (1991), Lithuania (2001), Mexico (1972), Netherlands (1979), Norway (1982, 1987, 1990, 1993), Poland (1993, 1997, 2001, 2007), Soviet Union (1982), Slovakia (1997, 2007), Spain (1998), Sweden (1982, 1987), Switzerland (1979), Thailand (2008).

## PUBLICATIONS

- Aber, J.S., Pavri, F., & Aber, S.W. (2011). *Wetland environments: A global perspective*. Oxford, UK: Wiley-Blackwell. In progress.
- Henninger, J., & Aber, S. W. (2010). The frustrated nerds project – Resources for systems administrators in higher education: A resource webliography. *Issues in Science and Technology Librarianship*, 63. Retrieved from <http://www.istl.org/10-fall/internet1.html>
- Aber, J. S., Aber, S. W., Manders, G, & Nairn, R.W. (2010). Route 66: Geology and legacy of mining in the Tri-state district of Missouri, Kansas, and Oklahoma. In K.R. Evans & J.S. Aber (Eds.), *From Precambrian rift volcanoes to the Mississippian shelf margin: Geological field excursions in the Ozark Mountains* Field Guide 17 (pp. 1-22). Boulder, CO: The Geologic Society of America.
- Aber, J. S., & Aber, S. W. (2009). Kansas physiographic regions: Bird's-eye views. Lawrence, Kansas: *Kansas Geological Survey, Education Series* 17.
- Aber, J.S., Aber, S.W., Buster, L., Jensen, W.E., & Sleezer, R.L. (2009). Challenge of infrared kite aerial photography: A digital update. *Transactions of the Kansas Academy of Science*, 112(1/2), 31-39. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans112/trans112.pdf>
- Aber, J.S., Aber, S.W., Janocko, J., Zabielski, R. and Górska-Zabielska, M. (2008). High-altitude kite aerial photography. *Kansas Academy of Science, Transactions* 111, p. 49-60. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans111/trans111.pdf>
- Aber, S. W. (2007). Fostering collaboration through qualitative research methods: Investigating information needs of geoscience educators. *Proceedings of the Fortieth Meeting of the Geoscience Information Society*, 36, 9-13.
- Aber, S. W. and Aber, J. S. (2007). Endla und Nigula: Fesseldrachen-luftbildfotografie im dienste der forschung (Endla and Nigula: Kite aerial photography for scientific investigations). *Drachen* 4/2007, p. 48-49. Invited article; German translation by W. Bieck.
- Aber, J. S., Aber, S. W., Pavri, F., Volkova, E. and Penner, R. L. (2006). Small-format aerial photography for assessing change in wetland vegetation, Cheyenne Bottoms, Kansas. *Kansas Academy of Science, Transactions* 109, p. 47-57. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans109/trans109.htm#aber>
- Aber, S. W. (2005). *Information needs and behaviors of geoscience educators: A grounded theory study*. Dissertation, Emporia State University, Emporia, KS, 367 p.

- Aber, J. S., Eberts, D. and Aber, S. W. (2005). Applications of kite aerial photography: Biocontrol of salt cedar (*Tamarix*) in the western United States. *Kansas Academy of Science, Transactions* 108, p. 63-66. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans108/trans108.htm#aber>
- Aber, J. S. and Aber, S. W. (2003). Applications of kite aerial photography: Property survey. *Kansas Academy of Science, Transactions* 106, p. 107-110.
- Aber, J. S., Zupancic, J., & Aber, S. W. (2003). Applications of kite aerial photography: Golf course management. *Kansas Academy of Science, Trans.* 106, p. 211-214.
- Aber, J. S., Aaviksoo, K., Karofeld, E., and Aber, S. W. (2002). Patterns in Estonian bogs as depicted in color kite aerial photographs. *Suo* 53, p. 1-15. Retrieved from <http://www.suoseura.fi/suo/Abstracts53.html#aber>
- Aber, S. W. and Kosmowska-Ceranowicz, B. (2001). Kansas amber: Historic review and new description. In A. Butrimas (Ed.) *Baltic amber*, p. 27-33. Vilnius, Lithuania: Vilnius Academy of Fine Arts Press.
- Aber, S. W. and Kosmowska-Ceranowicz, B. (2001). Bursztyn i inne żywice kopalne Świata. Kredowe żywice kopalne Ameryki Północnej: cedaryt (czemawinit), jelite. [Amber and other copal resins of the world. Cretaceous copal resins from North America: Cedarite (chemawinite), jelinite.] *Polski Jubiler* 2(13), p. 22-24. Retrieved from <http://www.geo.uw.edu.pl/JEWELLER/13PJ/11burszt.pdf>
- Aber, J. S., Aber, S. W., and Leffler, B. (2001). Challenge of infrared kite aerial photography. *Kansas Academy of Science, Transactions* 104(1-2), p. 18-27. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans104/aber1/aber1.htm>
- Aber, J. S. and Aber, S. W. (2001). Limestone xenoliths in Hills Pond Lamproite, Woodson County, Kansas. *Kansas Academy of Science, Transactions* 104 (1-2), p. 123-128. Retrieved from <http://www.kansasacademyscience.org/TKAS/trans104/aber2/aber2.htm>
- Aber, J. S. and Aber, S. W. (2001). Potential of kite aerial photography for peatland investigations with examples from Estonia. *Suo* 52(2), p. 45-56. Retrieved from <http://www.suoseura.fi/suo/Abstracts52.html#aber>
- Johnston, P. and Aber, S. W., et al. (1990-2000). *Introduction to earth science lab* (1st-5th). Edina, MN: Burgess International Group, Inc., 142 p.
- Aber, S. W. (1997). Minerals to gems: From practical to sparkling. *Kansas Science Teacher* 12, p. 3-32.
- Aber, S. W. and Grisafe, D. A. (1982). Petrographic characteristics of Kansas building limestones. *Kansas Geological Survey, Bulletin* 224.

## PRESENTATIONS

- Aber, S. W., Aber, J. S., Manders, G. C., & Nairn, R. W. (2010). Aerial photographic record of mining legacy in the Tri-state district of Missouri, Kansas, and Oklahoma. Paper No. 24-1. Geological Society of America Abstracts with Programs, 42(2), 74. *Geological Society of America, North-Central Section and South-Central Section Joint Meeting*, [http://gsa.confex.com/gsa/2010NC/finalprogram/abstract\\_170956.htm](http://gsa.confex.com/gsa/2010NC/finalprogram/abstract_170956.htm), April 12, Branson, Missouri. Retrieved from [http://gsa.confex.com/gsa/2010NC/finalprogram/abstract\\_170956.htm](http://gsa.confex.com/gsa/2010NC/finalprogram/abstract_170956.htm)
- Aber, S.W. and Aber, J.S. (2010). The legacy of mining: Aerial photography in southeastern Kansas and northeastern Oklahoma [Abstract]. *Kansas Geological Society Bulletin*, 85(2), 8. KGS Technical meeting, March 31, Wichita, Kansas.
- Aber, S.W. and Aber, J.S. (2009). A review and an aerial eye on Tri-state mining. 11th *National Tar Creek Conference*, LEAD, [www.leadagency.org/TCC11.html](http://www.leadagency.org/TCC11.html), Sept. 22-24, Miami, Oklahoma.
- Aber, J. S. and Aber, S. W. (2007). Kansas physiographic regions: A reappraisal [Abstract Poster Session]. *Kansas Academy of Science, Transactions* 110, p. 293.
- Aber, J. S. and Aber, S. W. (2006). Kite aerial photography of wetland environments. *Kite Aerial Photography in California*, Pacific Grove, CA, November.
- Aber, S. W., and Lillard, L. L. (2006). Academic librarian perceptions of information needs of geoscience educators: A grounded theory study of subject specialty knowledge and training. *Association for Information Science and Education*. January 2006, San Antonio, Texas.
- Aber, S. W. (2005). Fostering collaboration through qualitative research methods: Investigating information needs of geoscience educators. *Geological Society of America, Annual Meeting*. October 2005, Salt Lake City, Utah.
- Aber, J. S., Aber, S. W., Firooza, P., Korenman, T., Volkova, E., Penner, R. L. (2005). Small-format aerial photography for assessing change in wetland vegetation: A case study from Cheyenne Bottoms, Kansas. *20th Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment*, October 2005, Weslaco, Texas.
- Aber, J. S., Aber, S. W. and Pavri, F. (2003). Geological applications of kite aerial photography. *Geological Society America, Rocky Mountain Section*. May 2003, Durango, Colorado.
- Aber, J. S., Aber, S. W. and Zupancic, J. (2003). Applications of kite aerial photography: Golf course management. *Kansas Academy of Science, Annual Meeting, Abstracts* 22.
- Aber, J. S., Aber, S. W., Aaviksoo, K. and Karofeld, E. (2002). Potential of kite aerial photography for investigation of wetlands with examples from Estonia. *Kansas Academy of Science, Abstracts* 21, p. 49.

- Aber, J. S. and Aber, S. W. (2002). Scientific applications of kite aerial photography. *International conference on kite aerial photography*. November, 2002, Pacific Grove, California.
- Aber, J. S., Aber, S. W. and Pavri, F. (2002). Unmanned small-format aerial photography from kites for acquiring large-scale, high-resolution, multiview-angle imagery. *Percora 15, Land Satellite Information IV and ISPRS Commission I Conference, Proceedings*. November, 2002, Denver, CO.
- Aber, S. W. (2001). Kansas amber: Historic review and new description. *Conference on Amber in Natural Sciences, Archeology and Applied Arts*. September 2001, Vilnius, Lithuania.
- Aber, S. W. (2001). Kansas amber. *Kansas Academy of Science, Annual Meeting, Abstracts 20*.
- Aber, J. S., Aber, S. W. and Leffler, B. (2000). Challenge of infrared kite aerial photography. *Kansas Academy of Science, Annual Meeting, Abstracts 19*, p. 2.
- Aber, S. W. (1998). Welcome to the world of amber: Disseminating and communicating via WWW. *World Congress on Amber Inclusions, Abst. with Prog.*, p. 135. October, 1998, Museo de Ciencias Naturales de Álava, Vitoria-Gasteiz, Spain.
- Aber, S. W. Johnston, P. L. and Ye, H. (1997). A practical earth science lab using passive solar heating. *Geological Society America, Abst. with Prog.*, annual meeting. October 1997, Salt Lake City, Utah.
- Aber, S. W. (1980). The use of native rock in early stone churches of Denmark. *Geological Society America, Abst. with Prog.*, south-central section, annual meeting. May 1980, Wichita, Kansas.

## **RESEARCH INTERESTS**

Scientific and information visualization with specialty in maps and small-format aerial photography, [www.geospectra.net/kite](http://www.geospectra.net/kite)

Academic librarianship with an emphasis on information needs and information-seeking behaviors of university geoscience educators.

Reference and information services in various scientific disciplines and professions.

Mineralogy and petrology with specialty in weathering and properties of building stone.

Gemology with specialty in amber.

## **EDUCATIONAL OUTREACH**

World of Amber, <http://www.emporia.edu/earthsci/amber/>

Emporia State University Map Library, <http://maplibrary.emporia.edu/> and

<http://www.emporia.edu/earthsci/amber/maplibrary.htm>

ESU Earth Science Educational Outreach, <http://www.emporia.edu/earthsci/outreach/>

### **CURRENT PROFESSIONAL AFFILIATIONS**

American Kitefliers Association (AKA)

American Library Association (ALA)

Association for College and Research Libraries (ACRL)

Association for Library and Information Science Education (ALISE)

Cartographic Users Association Council for 2009-2011 (CUAC)

Geological Society of America (GSA)

Geoscience Society for Information Science (GSIS)

International Federation of Library Associations (IFLA)

Kansas Academy of Science (KAS)

Special Libraries Association (SLA)

SLA representative to IFLA's Geography and Map Libraries Section Standing Committee for 2009-2013