

**Curriculum Vitae
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Textile and Fiber Science
Textiles and Clothing Program
Department of Consumer Sciences
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Kathryn A. Jakes

EDUCATION

- Ph.D. Textile and Polymer Science, Clemson University, June, 1979.
- M.S. Home Economics, Textile Science, University of Maryland, December, 1973.
- B.S. Home Economics, Textiles, University of Illinois, June, 1971.

PROFESSIONAL EXPERIENCE

- Professor, Department of Consumer Sciences, The Ohio State University, January 1, 1998- present.
- Director, ColLABoration, OSU labs at COSI, April 2007- December 2008.
- Professor, Office of Outreach and Engagement, College of Education and Human Ecology, July 1, 2007- December 2008.
- Chair, Department of Consumer and Textile Sciences, The Ohio State University, July 1, 1995- Dec. 31, 1997.
- Acting Chair, Department of Textiles & Clothing, Department of Family Resource Management, The Ohio State University, November, 1994-June 30, 1995.
- Full Professor, Department of Textiles and Clothing, The Ohio State University, June 1992- present.
- Associate Professor, Department of Textiles and Clothing, The Ohio State University, October, 1987 - 1992.
- Associate Director, Center for Archaeological Sciences, University of Georgia, June, 1984 - August, 1987.
- Assistant Professor, Department of Clothing, Textiles and Interiors, University of Georgia, August 1979 - June, 1984.
- Graduate Research Assistant, Clemson University, August, 1974 - June, 1979.
- Lecturer, University of Maryland, Summer 1974, Fall 1973.
- Research Associate, University of Maryland, January - June 1974.
- Graduate Research Assistant, University of Maryland, August 1971 - August 1973.

ACADEMIC ACCOMPLISHMENTS SUMMARY

PUBLICATIONS	
In press	1
Research	74
Other	70
PRESENTATIONS	
Invited	6
National and international	69
Regional	8
State and local	54
Student advising	
Doctoral major professor	14
Masters major professor	10
Undergraduate honor's thesis advisor/coadvisor	2

PUBLICATIONS

Articles in press and in review for refereed Books and Journals

Jakes, K. A., Thompson, A., Baldia, C. Revealing Clues from Textile Dust through Microscopy, Infrared Spectroscopy, and X-ray Microanalysis. *Textile: The Journal of Cloth and Culture*, invited paper, in press.

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Sibley, L.R. and Jakes, K.A., Characterization of Selected Prehistoric Fabrics of Southeastern North America, In H. Zeronian and H. Needles, editors, Conservation and Characterization of Historical Paper and Textile Materials, Advances in Chemistry Series No. 212, American Chemical Society, Washington, D.C. pages 253-275 (1986).

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Jakes, K.A., and Sibley, L.R., Chemical and Physical Analysis of Textile Fabric Pseudomorphs, In, P. England and L. Van Zelst, editors, Proceedings of the Application of Science in the Examination of Works of Art, [Boston Museum of Fine Arts, 7-9, Sept. 1983] pages 221-224 (1985).

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Jakes, K.A., Smith, B.F., and Spivak, S.M., Computerized Data Handling System for Children's Sleepwear Standard, DOCF3-71, Textile Research Journal 44 966-968 (1974).

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Articles in Other Journals, Newsletters, Books

Jakes, K.A. "Hopewell Textiles". In, Ohio Archaeology. Bradley T. Lepper. Orange Frazer Press, Wilmington, OH pp. 117-119 (2005).

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Jakes, K.A., Report on the Examination of Squawkie Hill sample AR29456 and Picton AR 910, report to the Rochester Museum and Science Center, Rochester, N.Y.(1994)

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K.A. Jakes, H.L. Chen, L. R. Sibley, Use of a Comparative Collection in the Identification of Fibers: Examples from Seip and Etowah, Proceedings of the Eleventh Annual Conference on Textiles, Madison, Wisconsin, June 18-20, 1993.

K. A. Jakes, W. Wang, Evaluation of the Degradation of Cellulosic Textiles in the Deep Ocean Environment, Proceedings of the Eleventh Annual Conference on Textiles, Madison, Wisconsin, June 18-20, 1993.

S.P. Bouffard, A.J. Sommer, J. E. Katon, S. Godber, and K. A. Jakes "Characterization of Dyes on Single Fibers Using Molecular Microspectroscopy", paper 429, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, GA, March 1993.

M.E. Swinker, L.R. Sibley, K. A. Jakes, The Stylistic and Structural Characteristics of Harmonist Patterned Silk Textiles, 1826-1852. Silk: Abstracts of the 11th Symposium of the Harpers Ferry Regional Textile Group, National Museum of American History, November 12-13, 1992, Washington, D.C.

C. Song, Sibley, L. R., Jakes, K. A., Morphological Analysis of Fibers of Seip Textiles and the Cultural Explanation, Abstracts of the Southeastern Archaeological Conference, October 21-24, 1992, Pine Bluff, Arkansas

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Jakes, K.A. A Comparative Collection of Plants and Plant Fibers Typical of Those Used by Prehistoric People of Eastern North America, Archaeometry '92, International Symposium on Archaeometry, Los Angeles, March 23-27, 1992. Poster presentation

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Angel, A. and Jakes, K.A., Preparation and Elemental Analysis of Ancient Fibers, Proceedings of the 45th Annual Meeting of the Electron Microscopy Society of America, pp 410-411 (1987).

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Jakes, K.A., Analytical Methods for the Study of Prehistoric Textiles, Abstracts, Forty-third Southeastern Archaeological Conference, Bulletin 29, page 34 (1986).

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Sibley, L.R. and Jakes, K.A. Textiles Fabric Pseudomorphs: Some Implications for the Archaeology of the Southeast. Abstracts, Thirty-ninth Southeastern Archaeological Conference, Bulletin 26, page 32 (1982).

Jakes, K.A., and Sibley, L.R., Survival of Cellulosic Fibers in the Archaeological Context, Proceedings, Association of College Professors of Textiles and Clothing. pp 167-168 (1981).

Jakes, K.A., and Sibley, L.R., The Usefulness of Ultraviolet-Visible Spectroscopy and Fourier Transform Infrared Spectroscopy in the Documentation of a Nineteenth Century Bodice and Skirt, Proceedings, Association of College Professors of Textiles and Clothing, pp 79-80 (1980).

PRESENTATIONS

National and International Presentations

Levine, M.A., Jakes, K. A., Baldia, C. and Picard, J. The Fabric of Empire in a Native World: An Analysis of Trade Cloth Recovered from 18th Century Otstonwakin, Society for American Archaeology National meeting, April 2010.

Tiedemann, E.J., Jakes, K. A. Characterization of Replicated Yarns Toward Determining Spinning Technology from Textile Fragments, Society for American Archaeology National meeting, Vancouver, B.C. April 2008.

Tiedemann, E. J., Jakes, K. A. What No Spindles? The case against change in spinning technology. Society for American Archaeology National meeting. Austin TX April 25-29, 2007.

Baldia, C, Jakes, K. A., Baldia M. Prehistoric Colorant Analysis: a Multidisciplinary Approach. Society for American Archaeology National meeting. Austin, TX. April 25-29, 2007.

Baldia, C.M, Jakes, K. A., Baldia, M. O. Polychrome Hopewell Textiles: Dye Technology at Seip Mound in Southern Ohio, Textile History Forum, Wintherthur, Delaware, October 6-7, 2006.

Jakes, K. A., Falsken, J. Integration of Disciplinary Concepts in an Introductory Textiles Course: a First step toward Authentic Instruction. International Textile and Apparel Association National meeting. Austin, TX Nov, 2006.

Baldia, C. Jakes, K. A., Midwest Archaeological Conference, October, 2006, Champaign Illinois.

Jakes, K.A., Baldia, C., Thompson, A., Infrared examination of fiber and particulate residues from archaeological textiles. American Chemical Society National Meeting, Atlanta GA, March 28, 2006.

Baldia, C., Jakes, K. A., Toward the classification of colorants in archaeological textiles of eastern North America. American Chemical Society National Meeting, Atlanta GA, March 28, 2006.

Baldia, C. and Jakes, K.A. Forensic Photography of Selected Seip Textiles. Midwest Archaeological Conference, October, 2005 Dayton, OH.

Thompson, A. and Jakes, K.A. Implications of Textile Evidence for Ohio Hopewell Burial Practices. Midwest Archaeological Conference, October, 2005 Dayton, OH.

Baldia, C and Jakes, K.A. Prehistoric Textile Materials: Technology of Dyeing to Achieve Red Color, International Textile and Apparel Association, November, 2004

Jakes, K. A. Prehistoric Fabrics: Clues to Past Technology and Cultural Activity. Invited presentation. American Chemical Society National Meeting, Philadelphia, PA. August 22, 2004.

Jakes, K.A. Archeological textiles: evidence of human activity and thought. Invited presentation. American Chemical Society Central Region Meeting, Indianapolis IN invited presentation. June 4-5, 2004.

Baldia, C and Jakes, K.A. Experimental Dyeing Replication of Prehistoric Textile Materials with Bloodroot, Conference on Prehistoric Textiles, Symposium Hallstatt-Textiles, Hallstatt Austria, June 4-6, 2004.

Shim, S. and Jakes, K.A. Differentiating Huacaya and Suri Alpaca Fibers by Scanning Electron Microscopy. 227th American Chemical Society National Meeting, Anaheim, CA. March 28- April 1, 2004.

Baldia, C and Jakes, K.A. Experimental Dyeing Replication of Prehistoric Textile Materials with Bloodroot, First Conference of the European Association for the Advancement of Archaeology by Experiment (EXAR) in Vienna, Austria, Oct 10-12, 2003.

Jakes, K. Exploring linkages of defined types of deterioration to the condition of textile artifacts. Presentation at the conference 'Developing a Web-Accessible Reference Library of Deteriorated Fibers Using Digital Imaging and Image Analysis. Sponsored by the National Park Service, supported by the National Center for Preservation Training and Technology. Shepherdstown West Virginia. April 3-6, 2003.

Curl, A. and Jakes, K. A. Optical Microscopy Techniques for Examination of Hair Fibers: Application to Archaeological Textiles". American Institute for Conservation National meeting, Arlington, VA, June 5- 10, 2003.

Shim, S. and Jakes, K. A., Differential Scanning Calorimetry of alpaca fibers. 225th American Chemical Society National meeting, New Orleans, LA. March 23-27, 2003.

Thompson, A. and Jakes, K. A., Comparison of Dyed and Charred Fibers with Infrared Spectroscopy, Midwest Archaeological Conference, Columbus, OH, October, 2002.

Baldia, C and Jakes, K.A. Colors of the Past, Midwest Archaeological Conference, Columbus, OH 2002.

Wimberley, V. and Jakes, K. Technical Analysis of Mississippian Patterned Fabric from Etowah. SAA 67th Annual Meeting, Denver, CO March 21, 2002.

Thompson, A. and Jakes, K. A. Comparisons of Dyed and Undyed, Charred and Uncharred fibers with infrared spectroscopy. International Textile and Apparel Association, August, 2002, New York, N.Y.

Wimberley, V.S and Jakes, K. A. An Examination of a Textile from Etowah 842. Society for American Archaeology National meeting, New Orleans, LA. March, 2002.

Jakes, K. A. and Srinivasan, R. Morphology and Microstructure of Marine Silk Fibers, American Chemical Society National Meeting, August 26-28, 2001, Chicago, IL.

Thompson, A. and Jakes, K. A. Replication of a dyeing process used in prehistoric eastern North America, International Textile and Apparel Association, November, 2000, Cincinnati, OH.

Shim, Sohie and Jakes, K. A., Infrared spectroscopy of alpaca fibers. International Textile and Apparel Association, November, 2000, Cincinnati, OH.

Jakes, K. A., Exploratory analysis of alpaca fibers. International Textile and Apparel Association, November, 2000, Cincinnati, OH.

Chen, R., Foreman, D.W., and Jakes, K. A., Peak-fitting Analysis of Cellulose Powder XRD Spectra, The 220th American Chemical Society National Meeting, Washington, D.C., August, 2000

Chen R. and Jakes, K.A. FTIR Microspectroscopy as an Effective Tool for Single Fiber Identification and Fiber Structural Analysis. American Institute for Conservation, June 2000 Philadelphia PA.

Jakes, K. A., Alpaca Fiber Research at the Ohio State University. Alpaca Owners and Breeders Association National Meeting, Louisville, KY, May 2000.

Jakes, K. A. Camelid Fiber Research, Camelid Medicine, Surgery, and Reproduction Conference, The Ohio State University, College of Veterinary Medicine, March 23, 2000.

Jakes, K. A. Archaeological Textiles, Gordon Conference on Fiber Science, July 9, 1999, New London, New Hampshire.

Chen, R. and Jakes, K. A., Cellulolytic Biodegradation of Cotton Fibers from a Deep Ocean Environment, American Institute for Conservation National Meeting, St. Louis, Mo, June 7-10

Jakes, K.A. and Tiedemann, E. J. Characterization of alpaca fibers for textile product development, Alpaca Owners and Breeders Association National Meeting, Columbus, OH June 10 and 11, 1999.

Jakes, K. A. and Ericksen, A.G., Compilation of Evidence for Dye Technology from Multiple Correlates, Society for American Archaeology National Meeting, Chicago, IL, March 22-27, 1999.

Chen, R. and Jakes, K. A. A Study of Historic Cotton Fibers from a Marine Environment by FTIR, American Chemical Society National Meeting, Boston, MA. August 26, 1998.

Chen, R. and Jakes, K.A. A Study of Archaeological Textile Fibers from a Marine Environment by Light Microscopy and SEM. ITAA National Meeting, Knoxville, TN Nov. 13-15, 1997.

Jakes, K.A., Wimberley, V.S. and Ericksen, A.G., Refinement of the Model for Inference from Textile Remains, International Textile and Apparel Association, Knoxville, TN Nov. 15, 1997.

Jakes, K.A. Microanalytical Methods for the Study of Prehistoric Textile Fibers, 62nd Annual Meeting of the Society for American Archaeology, Nashville TN, April 3, 1997

Ericksen, A.G., Jakes, K. A., Wimberley, V. S. Toward an Understanding of Prehistoric Textiles: Production, Function, Semiotics, 62nd Annual Meeting of the Society for American Archaeology, Nashville, TN April 3, 1997

Gremillion, K., Jakes, K.A., The Research Potential of Prehistoric Textiles from Kentucky: An example from Carter County. 14th Annual Kentucky Heritage Council Archaeological Conference, March 14-16, 1997.

Ericksen, A.G., Jakes, K.A., Socioeconomic Implications of Prehistoric Textile Production in the Eastern Woodlands, Materials Research Society Fall Meeting December 2-6, 1996 Boston, MA.

Srinivasan, R, Jakes, K. A., Examination of Historic Silk Fibers: SEM, EDS, DSC, Materials Research Society Fall Meeting December 2-6, 1996 Boston, MA.

Jakes, K. A., Examination of Fibers from the Star Spangled Banner, Report at the Conference on the Star Spangled Banner, National Museum of American History, Smithsonian Institution, November 22, 23, 1996.

Jakes, K. A. and Ericksen, A., Social Context of bast fiber production and use in a late prehistoric Mississippian society, International Symposium on Archaeometry, Urbana, IL, May, 1996.

Srinivasan, R., Foreman, D., Jakes, K. A., Noel, C.J., Physical Microstructure of Silk Fibers Recovered from an Historic Marine Environment: XRD, DSC, TGA, International Symposium on Archaeometry, Urbana, IL. May, 1996.

Chen, H.L., Jakes, K, Foreman, D., SEM, EDS, and FTIR Examination of Archaeological Mineralized Plant Fibers, Fiber Society "Advances in Fiber, Textiles and Nonwovens Science and Technology" Raleigh, N.C. May 9-11, 1995

Jakes, K. A., Clues to the Past: Further Development of the Comparative Plant Fiber Collection, Archaeological Chemistry, American Chemical Society National Meeting, April 2, 1995, Los Angeles, CA.

Chen, H.L., Foreman, D.W., Jakes, K.A., X-ray Diffractometric Analyses of the Microstructure of Mineralized Plant Fibers, Archaeological Chemistry, American Chemical Society National Meeting, April 2, 1995, Los Angeles, CA.

"X-ray Diffractometric Measurement of Microcrystallite Structure of Common Milkweed and Indian Hemp Fibers" presented by H.L. Chen, cowritten by K.A. Jakes and D.W. Foreman, International Textile and Apparel Association, Minneapolis, MN, October 1994.

"Characterization of Silk Fibers and Garments Recovered from a Deep Ocean Environment" presented by L.R. Sibley, cowritten by K.A. Jakes and L.C. Crawford, International Textile and Apparel Association, Minneapolis, MN, October 1994.

"Paleofecal evidence for Early Agricultural Diet and Ecology" presented by K Gremillion, cowritten by K. A. Jakes and C. T. Faulkner, Society of Ethnobiology 17th Annual Conference, Victoria, British Columbia, March 16-19, 1994.

"Etowah Textiles and the Comparative Plant Collection: Classification, Identification and Explanation", presented by L.R. Sibley, cowritten by K A. Jakes and H-L. Chen, International Textile and Apparel Association meeting, White Sulphur Springs, West Virginia, November, 1993.

"Use of a Comparative Collection in the Identification of Fibers: Examples from Seip and Etowah", presented by H-L. Chen, cowritten by K. A. Jakes and L. R. Sibley, Eleventh Annual Conference on Textiles, Madison, Wisconsin, June 18-20, 1993.

"Evaluation of the Degradation of Cellulosic Textiles in the Deep Ocean Environment", presented by W. Wang, cowritten by K. A. Jakes, Eleventh Annual Conference on Textiles, Madison, Wisconsin, June 18-20, 1993.

"Characterization of Dyes on Single Fibers Using Molecular Microspectroscopy" with Bouffard, S.P., Sommer, A.J., Katon, J.E., Godber, S., Pittsburgh Conference, Atlanta, GA March 7-12, 1993.

"Recovering the Threads of the Past: Discovering the Future" presented with Robert E. Evans, Columbus-America Discovery Group, International Textiles and Apparel Association meeting, October 23, 1992, Columbus, Ohio.

"Textile Analytical Techniques: A Methodological Update for the Historic, Archaeological, and Textile Science Research Areas", with Katon, J. E., Mitchell, J. C., and Swinker, M. E., presented at the 1992 meeting of the International Textile and Apparel Association, October 20-24, 1992, Columbus, Ohio.

"Plant Fiber Morphology", with H. L. Chen, presented at the 1992 meeting of the International Textile and Apparel Association, October 20-24, 1992, Columbus, Ohio.

"The Characterization of Fibers and Fabrics Recovered from a Deep Ocean Shipwreck", with W. Wang, International Conference on Textiles, Denver, CO, June, 1992.

"Implications of Coloration in Etowah Textiles from Burial 57", with L.R. Sibley, Archaeometry '92, International Symposium on Archaeometry, Los Angeles, March 23-27 1992.

"Treasures from the Sea", Engineering Mechanics Specialty Conference, American Society of Civil Engineers, Columbus, Ohio, May 21, 1991.

"Unlocking Clues to the Past through Physical and Chemical Examination: Examples from Paracas Textiles", 1989 National Meeting of the Association of College Professors of Textiles and Clothing, Atlanta, Georgia, October 25, 1989.

"The Application of Infrared Microspectroscopy to Archaeological Fabrics and Dyes" with Martoglio, P.A., Bouffard, S.P., Sommer, A.J., Katon, J.E., at the Sixteenth Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, 1989.

"The Development of Modern Polymers", Ninth National Textile Preservation Symposium, sponsored by the Harper's Ferry Regional Textile Group, Smithsonian Institution, Museum of American History, Washington, D.C. Nov.3, 1988

"The Identification of Fibers of Historic Interest: Beyond Microscopic Evaluation of Morphology" invited keynote address Eighth National Textile Preservation Symposium, sponsored by the Harpers Ferry Regional Textile Group, Smithsonian Institution Museum of American History, Washington D.C. Nov. 6, 1986.

"Analytical Methods for the Study of Prehistoric Textiles" invited address, Forty-third Southeastern Archaeological Conference, Nashville, TN, Nov. 7, 1986.

"Textile Fabric Pseudomorphs, A Fossilized Form of Textile Evidence", visiting lecturer, presented to the Departments of Clothing and Textiles and Anthropology, Ohio State University, Columbus, Ohio, November 6, 1984.

"Textile Fabric Pseudomorphs, Their Chemistry of Formation and their Cultural Implications", visiting lecturer, presented to the Depts of Chemistry, Anthropology, and Art, Berlin College, Oberlin, Ohio, November 5, 1984.

"Deterioration of Textiles", invited keynote address, Seventh National Textile Preservation Symposium, Smithsonian Institution, Museum of American History, Washington, D.C., November 1, 1984.

"Textile Fabric Pseudomorphs: Some Implications for the Archaeology of the Southeast", L.R. Sibley and K.A. Jakes, Southeastern Archaeological Conference, Columbia, South Carolina, November 3-5, 1983.

Regional Presentations

Jakes, K. A. Prehistoric textiles of eastern North America: evidence of human thought and activity. Invited presentation, Hopewell Culture National Historical Park, invited presentation. July 8, 2004.

Jakes, K. A. Summary of ongoing camelid fiber research at Ohio State University, Camelid Health Conference, Columbus, OH. December 7, 2001.

Jakes, K. A. Report of the results of the Camelid Fiber Study. Camelid Health Conference, Columbus, OH December 8, 2000

Alpaca Fiber Research at OSU, K. A. Jakes, Camelid Health Foundation, December 4, 1999, Columbus, OH.

Characteristics Of Alpaca Fiber, K. Jakes, Magical Farms Alpaca Symposium, June 5, 1999. Litchfield, OH.

Single Hair Fiber Microscopy, E. Tiedemann and K. A. Jakes, Central Region American Chemical Society Meeting Columbus, OH June 21-23, 1999.

The Effect of Fiber Pressing on Single Cotton Fiber Infrared Spectra, R. Chen and K. Jakes, Central Region American Chemical Society Meeting Columbus, OH June 21- 23, 1999.

Jakes, K. A. and Ericksen, A.G., Compilation of Evidence for Dye Technology from Multiple Correlates, Ohio Archaeological Council Meeting, Columbus, Ohio, May 21, 1999.

"The Usefulness of Ultraviolet-Visible Spectroscopy and Fourier transform infrared Spectroscopy in the Documentation of a 19th Century Bodice and Skirt", K.A. Jakes and L.R. Sibley, Association of College Professors of Textiles and Clothing - Eastern Regional Meeting, Atlanta, October 21-22,1982.

State and Local Presentations

Jakes, K. A. "Prehistoric textiles: Evidence of Human Activity and Thought". Presentation to the Central Ohio Weaver's Guild, April 18, 2009.

Jakes, K. A. "Hopewell Textiles: Clues to past technology and cultural activity". Presentation to the Sixx Rivers section of the Ohio Archaeological Council, May 3, 2007.

Jakes, K. A. Extreme Textiles in Our Ordinary Lives, invited presentation as part of the Extreme Textiles show at the Wexner Center for the Arts, Ohio State University, May 18, 2006.

Jakes, K. A. Prehistoric textiles of eastern North America: evidence of human thought and activity. Invited presentation. University of Detroit-Mercy. Presentation to the chemistry department. April 19, 2005.

Textiles, Uncovering the Past, Discovering the Future. Presentation to the 50 and 60 - year alumni, May 17, 2002.

"Archaeological Textiles" Presentation for the COSI electronic experts program, Center of Science and Industry, Columbus OH, April 30, 2002.

"Camelid Fiber, Research and Development Opportunities@. Biohio exposition, May 10, 11, 12, 2001. Columbus campus, Ohio Agricultural Research and Development Center.

Textiles of the past, present and Future" Presentation to the Phi Upsilon Omicron members, October, 2001.

Textiles, Uncovering the Past, Discovering the Future@ Presentation to the 50 year alumni, May 18, 2001.

The Fabric of Our Lives, Presentation for Take Your Daughter to Work Day, April 26, 2001.

Archaeological Textiles, presentation to the T&C 372 class, Spring 2001.

Textiles, Uncovering the past, Discovering the future.@ Presentation to the OSU Focus Group, October 13, 2000.

The Fabric of Our Lives. Presentation to the 50 year alumni group, May 19, 2000. College of Human Ecology, Ohio State University.

Around the world in the basement of Campbell Hall, Presentation to the alumnae of Franklin and Delaware County, October 26, 1999. Ohio State University

Update on textile research. Presentation to the 50 year alumni group May, 1999, College of Human Ecology, Ohio State University.

Treasures from the Deep Ocean. presentation for 4H Youth Expo, June 22, 1997, The Ohio State University

Treasures from the Deep Ocean. presentation for Take Your Daughter to work day, April 24, 1997. The Ohio State University.

Quality-Centered Programs in the Department of Consumer and Textile Sciences, presentation to the American Society for Quality Control, December 3, 1996, Columbus, Ohio.

Consumers in the Marketplace: Is Anyone Listening? College of Human Ecology, 100 year celebration, May 3, 1996. And Ohio State University President's Club Reception, May 4, 1996. Presentation with J. Fox, L. Embrey, and B. Bresseman.

"Research in the Deep Ocean", presentation to the third grade class of Liberty Elementary School, April 12, 1996.

"Uncovering Clues to the Past through the Study of Textiles", Cleveland Museum of Art, November 8, 1995.

"Research in the Deep Ocean" , presentation to the third grade class of Wilson Hill Elementary School, Worthington, Oh, April 14, 1995.

"Plant Fibers in Prehistoric Textiles of Eastern North America" Ohio Academy of Science, Columbus, Oh April 29, 1995.

"Uncovering the Past, Developing the Future: Textiles from a Deep Ocean Shipwreck" Lecture to the Griswold Senior Center, Worthington, OH October 7, 1994

"Textiles: Discovering the Past, Developing the Future" July 5, Lecture to the T&C 694 Group Studies Class.

"National Science Foundation Grants" May 17, 1994, Lecture to the College of Human Ecology Home Economics Education Graduate Writing Class.

"Textiles: Discovering the Past, Developing the Future" presentation to the College Board of Advisors, and the Focus Group of Ohio State Supporters, June 3, 1994, Columbus, Ohio.

Careers in Textile Science, presentation to four groups of fifth grade students, Wilson Hill Elementary School, Worthington, Ohio May 6, 1994.

"Deep Ocean Textile Research" May 16, 1994, College of Agriculture Retirees, Columbus, Ohio

"Textile Fiber Research and the Field of Human Ecology" professorial lecture, April 25, 1994, Coll. of Human Ecology

"Textile Materials Research" presentation to the Center for Materials Research, Ohio State U., May 19, 1994.

"From Plant Fiber to Fabric", Natural History Society, Columbus, Oh, Ohio Historical Society, April 11, 1994.

"Clues to Past Cultures: What textiles can tell us about People" Women in Development lecture, March 10, 1994, The Ohio State University, with L.R. Sibley.

"Update on the S.S. Central America textile research", College of Human Ecology Alumni Conference, The Ohio State University, September 4, 1993.

"Textiles from Ohio's Mound sites: Clues to the Past" with Lucy Sibley, presentation to the public, Moundbuilders State Museum, Newark OH, June 12, 1993

"Archaeological Textiles: Evidence of Past Lifeways" with Lucy Sibley, presentation to the Ohio Archaeological Council, May 21, 1993 The Ohio Historical Society, Columbus, Ohio.

"Textile Recycling" written with Suzanne Douthitt. presented by Suzanne Douthitt, Ohio Home Economics Association Meeting, April, 1993, Columbus, Ohio.

"Archaeological Textiles" presentation to the Ohio State University Libraries Administrators Conference, February, 1993.

"Recovering the Threads of History: Discovering the Future" Presentation to the public, Columbus Museum of Art, July 22, 1992

"A Comparative Collection of Fibrous Plant Materials Typical of Those Used by Prehistoric Native Americans" Presentation to the College of Human Ecology Board of Advisers, May 15, 1992, Columbus, OH.

"Textiles from a Deep Ocean Historic Shipwreck" presentation to the College of Human Ecology Alumni Conference, April 25, 1992.

"Discover- Treasures from the Sea" presentation to the Phi Upsilon Omicron Gamma Alumni Chapter, April 20, 1992.

"Archaeological Textiles", presentation to the Worthington-Linworth Kiwanis, March 9, 1992.

"Treasures from the Sea", presentation at the Behind the Scenes meeting of the Friends of the Historic Costume and Textiles Collection, Department of Textiles and Clothing, The Ohio State University, Columbus, November 9, 1991

"The Materials Analysis Laboratory" presentation to the College of Human Ecology Board of Advisors, November 15, 1991

"Archaeological Textiles", presentation to First Community Village Retirement Center, Columbus, Ohio, November 4, 1991.

"Textile Treasures from the Depths of the Ocean", invited lecture, American Chemical Society Local Section Meeting, September 16, 1991, Columbus, Ohio.

"Unlocking Clues to the Past Through Scientific Examination of Archaeological Textiles", K.A. Jakes and L.R. Sibley, invited lecture, Columbus Section of the American Chemical Society, Columbus, Ohio, Sept. 21, 1988.

"Textiles and Textiles Pseudomorphs from Etowah Mound C" K.A. Jakes and L.R. Sibley, invited lecture, November 18, 1984, Etowah Mound Museum, Georgia.

"Textile Fabric Pseudomorphs: A Fossilized Form of Textile Evidence", presented to University of Georgia Geology Journal Club, November 15, 1984.

"Problems in Modern and Ancient Textiles", Electron Microscopy Seminar, Center for Advanced Ultrastructural Research, May 30, 1984.

"Textile Fabric Pseudomorphs, What they are, how they are formed, what they tell us", K.A. Jakes and L.R. Sibley, American Institute for Archaeology, Athens, Georgia, October 4, 1983.

"Environmental Forces Which Cause Textile Degradation", Preserving Historic Textiles and Clothing Workshop, Georgia Center, Athens, GA., April 21, 1983.

"Applications of Instrumental Analyses to the Study of Historic Textiles and Clothing", Preserving Historic Textiles and Clothing Workshop, Georgia Center, Athens, Georgia, April 22, 1983.

"An Examination of the Phenomenon of Textile Fabric Pseudomorphism", K.A. Jakes and L.R. Sibley, Classical Archaeology Class, University of Georgia, February 25, 1983.

"An Examination of the Phenomenon of Textile Fabric Pseudomorphism", K.A. Jakes and L.R. Sibley, University of Georgia CTI Department Faculty Seminar Series, October 13, 1982.

REVIEW OF WORK BY OTHERS

Heagney, M. CSI: Hopewell, Columbus Dispatch March 27, 2007 page B6. also online at http://dev.dispatch.org/dispatch/content/science/stories/2007/03/27/sci_textile.ART_ART_03-27-07_B6_PJ64VOU.html

Tracy Staedter, Ancient Clothes Revealed by Forensics, Discovery Channel Online. February 28, 2007. http://dsc.discovery.com/news/2007/02/28/forensicphoto_arc.html?category=archaeology&guid=20070228103000&dcitc=w19-502-ak-0000.

Yvonne Carts-Powell, Globalspec "Scientific Instruments"
Newsletter, issue 4, April 2007, posted at <http://www.globalspec.com/Newsletter/ViewPastIssues?Pub=47>

Dave Mosher, Forensic Photography Brings Color Back To Ancient Textiles, OSU Research News
<http://researchnews.osu.edu/archive/textiles.htm> , Feb 7, 2007. pictures held at
<http://researchnews.osu.edu/archive/textiles%20pix.htm> , also posted on osu homepage and Education and Human Ecology Home page.

Article also used by [Science Daily](#), [Softpedia](#), [FirstScience.com](#), [Science News Online](#), [Azom.com](#), Global Spec Engineering search engine
http://www.globalspec.com/Newsletter/ViewIssue?vol=Vol2Issue4_ScientificInstruments&pub=47&isPastIssue=1
http://farbimpulse.de/artikel/titel/Auf_Spurenuche_nach_den_Farbstoffen_der_Indianer/374.html
<http://www.mult-kor.hu/cikk.php?article=16965>
http://www.infoartefact.se/nyttnr_2007/knappar/utrikes/utrikes7.html
<http://www.solociencia.com/arqueologia/07032209.htm>
<http://coloria.blogspot.com/search/label/tutkimus>

Corey. Binns, CSI Technology Unlocks Secrets of Ancient Fabric, LiveScience.com
http://www.livescience.com/history/070223_forensic_textiles.html Posted : 23 February 2007, 11:56 am ET

Tanja Hufschmidt Archäologen stehen auf C.S.I., Heute, posted online 08.03.2007 , 11:56:14,
<http://www.heute-online.ch/wissen/hintergrund/artikel57711>

D. Mayer, "Living in a Material World", Housetrends Magazine, vol 5, issue 6, November 2006, pp 49-57.

J. Long, "Art and Science take a romp in the Sheets", Lantern March 6, 2006, p 9.

B. Mayr, "Far-out fibers". Columbus Dispatch, April 2, 2006, p. 1B

_, "Fiber Reference Image Library: Developing a Tool for Textile Preservation and Interpretation", American Institute for Conservation News, Vol. 31, No.1, January 2006

Remnants of the Past: High-tech analyses of ancient textiles yield clues to cultures. Diana Parsell
Sciences News, December 11, 2004. vol 166. No. 24, p 376- 377. also on online at
www.sciencenews.org/arciles/20041211/bob8.asp

Discovery and Study of ancient fabrics provide clues to life in ages past. Leigh Fenly. San Diego Union Tribune
December 8, 2004.

How face cream revealed the past. Robert C. Cowen. Christian Science Monitor. Thursday December 2, 2004, page
14. also online at www.csmonitor.com/2004/1202/p12s01-stss.html

How face cream revealed the past. Robert C. Cowen Also posted online at
www.usatoday.com/tech/science/discoveries/2004-12-06-saving-face_x.htm

Prehistoric Fabric Provides a view of Ancient Life. OSU Today online newsletter September 24, 2004.
<http://researchnews.osu.edu/archive/prefab.htm>

Wagner, Holly. Scraps Of Prehistoric Fabric Provide A View Of Ancient Life. Science Daily
<http://www.sciencedaily.com/releases/2004/08/040823093054.htm>

Cloth scraps provide window into distant past. Science Blog.
<http://www.scienceblog.com/community/article3747.html>

Mayell, Hillary. Textile Fragments Provide Details of Ancient Lives. National Geographic News.
http://news.nationalgeographic.com/news/2004/08/0823_040823_ancient_textiles.html

O' Brien, Dennis. Pecans, sumac among dyes used by Native Americans,. Baltimore Sun. August 23, 2004, page 8.

Kolb, C.C. in Society for Archaeological Sciences Bulletin, 26 (3/4) winter 2003, p. 16-17.

Hester, T. R., Shafer, H. J., Feder, K. L., "Textiles" in Field Methods in Archaeology, seventh edition. Page 151. Mayfield Publishing Co. Mountain View, CA 1997.

De Roche, D. Book Reviews, review of "Beyond Cloth and Cordage". West Virginia Archaeologist, 2002.

Good, I. Archaeological Textiles: Review of Current Research, Annual Review of Anthropology, 30:209-226 (2001).

S. Ritter, Nondestructively Seeking the Past, Chemical and Engineering News October 15, 2001.

Thompson, T. America's Lost Treasure, The Atlantic Monthly Press, New York 1998.

Lambert, J.B. Traces of the Past, Unraveling the Secrets of Archaeology through Chemistry, Addison Wesley, 1997.

Herdendorf, C.E., Evans, R.D. Thompson, T.G. Science on a Deep Ocean Shipwreck, Ohio Journal of Science, 95 4-212 (1995).

Haydon, K., Marine Archaeology: Going Beyond the Abandoned Shipwreck Act, Sea History 68 14-16 (Winter 1993-1994)

Lore, D., Steamer is Treasure-trove of sea life, Columbus Dispatch, page 1, July 11, 1993.

McLuckie, G., Material Evidence, Ohio State Quest, Spring, page 8-9, 1993.

Williams, S. Freeze-Drying Technique Saves Waterlogged Skivvies and Other Nineteenth-Century Clothes, Ohio State Quest, Spring, p. 9, 1993.

Williams, S. From a Watery Grave, Canadian Textile Journal 110(3) 19-20 (1993)

---, Quick Freeze Saves Clothes, p 23, Textile World, March, 1993.

Williams, S. Textiles Expert Saves 135-year-old clothes from shipwreck, research news release, University Communications, The Ohio State University, January 1993.

Carroll, M. Weaving the Thread of Ancient America Changing Families, Changing World, A research Summary of the College of Human Ecology, The Ohio State University and the Ohio Agricultural Research and Development Center, 1993

Carroll, M. Ancient Textiles May Unlock Modern Methods, Agricultural Research Digest, 2(2) 1 (1992).
Rich, Sharon, Radio interview for WBNS radio, September 1992.

Briggs, Jeffrey, Treasures from a Tragedy, The Columbus Dispatch, page 8B, Tuesday, June 9, 1992.

Noonan, T., History Under the Sea, American History Illustrated, page 58-62, XXVII(3), July/August 1992.

Carroll, M., Unraveling Secrets of the Past, OARDC 1991 Annual Report, page 10, December 31, 1991.
Murray, A., Radio Interview, OSU Info Line, November 20-22, 1991.

Edwards, K.S. "Shirts and Scarves from a Shipwreck", *Americana*, page 9, December, 1991.

Carroll, M., "Study of Ancient Textiles Brings Answers to Today's Problems", *Information and Applied Communications News and Media Relations Press Release*, October 24, 1991.

Lore, D., "Gold Ship provides Bonus of Clothing", *Columbus Dispatch* November 11, 1990, page 6C.

____, "As Good as Gold", *Ohio State Alumni Magazine*, page 13,14, (March, 1991).

____, "Blade Yields Evidence of Oldest Silk", *The New York Times*, page 18, (February 22, 1983).

Seabrook, C., "China was using silk 1000 years sooner than believed: researchers", *Atlanta Constitution*, (March 1, 1983).

Dean, J., "Pseudomorphs Revise History of Silk", *The University of Georgia Research Reporter* 15 (4) 12, (1983).

____, "How fabric, paper secrets were exposed" *Industrial Chemical News* 5 (8), 13-14 (August 1984).

Zurer, P., "Formation of Fossilized Fabrics Focus of Textiles Research Project." *Chemical and Engineering News* 62 (37) 28-30 (Sept. 10, 1984).

Weisburd, S., "Fossils of fabrics and fibers", *Science News* 126 328 (Nov. 24, 1984).

Toner, M., "The Past Is No Longer Threadbare", *The Atlanta Constitution*, Tuesday, March 5, 1985, page 16A.

Bower, J.R.F., *In Search of the Past: An Introduction to Archaeological Methods*, Dorsey Press, page 22.

Gifford, J.A. "Archaeological Geology." *Geotimes* 31 (2) 8-9 (February 1986)

Martin, P.E. "Laboratory Profile." *Society for Archaeological Sciences Newsletter* 10 (1) January-March 1987, p. 4.

EXHIBITS OF MATERIALS RELATED TO THE RESEARCH

Video of Kathryn Jakes talking about archaeological textiles in Ohio is included in two CD-ROMs. *Earthworks Virtual Explorations of the Ohio Valley* (released Sept 2007) and *Earthworks Virtual Explorations of Ancient Newark Ohio* (released 2006). Center for the Electronic Reconstruction of Historical and Archaeological Sites, University of Cincinnati. Both are part of a traveling exhibit with the same name.

Fiber micrograph included in the exhibit "Viewing the Invisible" Hopkins Hall Gallery, February 28- March 16, Bricker Hall, Spring quarter 2005, Port Clinton Gallery Autumn 2005. catalogue of the images in preparation.

Images of Jakes' research and video included as part of the Ohio Archaeology project website.

Hopewell Textile research included as part of the "Earthworks" interactive computer exhibit displayed at the Hopewell Culture National Historical Park, Mound City Group, Chillicothe, OH. This portion was a dedicated March 6, 2003. The research is also part of "EarthWorks Virtual Explanations of the Ancient Ohio Valley" an interactive traveling exhibit, opening June 2006, project directed by the Center for the Electronic Reconstruction of Historical and Archaeological Sites of the University of Cincinnati and the Cincinnati Museum Center.

Comparative Plant Collection materials displayed at Ohio Archaeology Day, Ohio Historical Society, July 11, 1993 and at Serpent Mound, October 1997.

"Shipwreck!" Textiles examined in the Department of Textiles and Clothing are described in exhibit at the Columbus Zoological Gardens, July 2 through October 1993. Supplementary exhibit in the Huntington Bank Lobby, Downtown Columbus, August 1993 through October 1993.

Research on Plants in the State of Ohio, part of the "International Garden of Knowledge" video produced by Information and Applied Communications for the Ameriflora exhibition. One of the 8 researchers in the state chosen for the video.

"Shipwreck!" Textile items conserved in the Department of Textiles and Clothing exhibited May 15 through September 20, 1992 at the Columbus Museum of Art.

COURSES TAUGHT

Introductory Textiles
Textile Testing and Performance Evaluation
Textile Quality and Materials Sourcing
Advanced Textiles
Fiber Chemistry
Fiber Physics
Optical Microscopy
Polymer Degradation and Conservation
Lectures on the environmental and social responsibility awareness of the textile industry
Lectures on archaeological textiles, analysis and inference
Lectures on textiles, historic textiles and material culture.
Lectures on forensics, hair and fiber microscopy for the interdisciplinary forensics program.

GRANTS

Grants awarded:

K. A. Jakes, Creation of a Web-accessible Database of the Comparative Plant Fiber Collection. National Center for Preservation Training and Technology, awarded April 1 2009. \$25,000.

K. A. Jakes and K. Kiehl, "Bringing Real Science to the Public: An Interface Between Real Research Laboratories and the Public" request to the Institute for Museum and Library Services, \$485,000 awarded to COSI, November 2008-October 2010.

Jakes, K. A. Conceptualizing Textile Structures, enhancing Textiles and Clothing 371. Faculty Improvement Grant, Ohio State University Office of Information Technology, \$875, November 2001.

Jakes, K. A. Converting Textiles and Clothing 371 to webCT based course, Technology Enhanced Learning Resources Internship award.

Jakes, K. A. Effect of Protein and Calorie Restriction on Fiber Production in Alpacas. OARDC matching grant competition. \$25689 awarded, December 1999. Industry match provided by the Camelid Health Foundation, \$30,000, March 1, 2000.

Lennon, S. J., Dickson, M. A., Jakes, K. A., O'Neal, G. S., & Rudd, N. A. (1999, February). Social responsibility in the textiles and apparel complex (a proposal to fund a new honors course). OSU Honors Program Competition, \$12000.

K. Jakes, D. Anderson, Evaluation of the Effect of Diet on the Quality of Alpaca Fiber: Phase I. Determination of Effective Performance Parameters. OARDC Research Enhancement Competitive Grants Program. Awarded Dec 22, 1998, \$5781. Industry match received March 18, 1999 from Magical Farms of Litchfield OH and Alpaca Jack's Suri Farm of Findlay OH. \$6000.

Lennon, S, Jakes, K.A., Dickson, M. A. Experiential Learning Opportunities for Textiles and Clothing Graduate Students, request to the Graduate School of The Ohio State University, June 1998- September 2000, \$29,000.

Jakes, K. A. and Lennon, S.J., Enhancement of Textiles and Apparel Faculty Preparation for Teaching: Faculty Internship and Liaison Model, USDA Higher Education Challenge Grant, \$79535. Funded Sept.1996-Sept.1998.

Proposal to the W.M. Keck Foundation to Establish a Vibrational Spectroscopy Facility at the Ohio State University Center For Materials Research., Funded, Jakes is a participant in the program and wrote a portion of the request.

Characterization and Preservation of Silk Garments Recovered from a Deep Ocean Environment, Lucy R. Sibley Co-principal investigator, L. J. Skaggs and M. C. Skaggs Foundation \$7500 funded January 1993.

Research Experiences for Undergraduate students, National Science Foundation, \$3025 funded April, 1992.

In support of research on Degraded Marine Textiles, Columbus-America Discovery Group, \$10,400, June, 1991.

The Degradation of Textiles in the Marine Environment, Columbus America Discovery Group, \$53,400 funded for two years beginning June 1991, extended through August 1994.

Travel support for Plant collection in Georgia, OSU Small Grant, funded, \$1000, May 1991.

The Identification and Characterization of Plant Fibers Representative of Those Used in Prehistoric Textiles of Eastern North America, NSF-Archaeology Request, \$153,000 funded for two years, beginning January 1991, extended though December 1993.

In support of exploratory work with fibers from garments from the S.S. Central America, Columbus America Discovery Group, \$1000, December, 1990.

In support of exploratory work with fibers from the S.S. Central America, Columbus America Discovery Group, \$2000, February, 1991.

Analysis of Degraded Polymeric Materials: Establishment of Reference Spectra and Testing of Instrumental Procedures, Research Challenge-Investigator's Fund Proposal, \$5630, April, 1988.

Development of a Methodology for the Chemical and Physical Analysis of Prehistoric and Historic Textile Materials, OSU-University Seed Grant Proposal,\$10,500, March, 1988.

Support for Microscopic Examination of Polymeric Materials, Ohio State University Small Grant, \$1000, November, 1987.

Further Investigation of Textile Fabric Pseudomorphism, Wenner Gren Society for Anthropological Research. Co-principal investigator,\$4225, 1983.

Preliminary Investigation of Direct Fabric Evidence from Etowah Mound C, Ohio State University Seed Grant, L.R. Sibley, principal investigator. As consulting senior scientist, K. A. Jakes received \$2580, 1985.

Paracas Ritual Garments from Ancient Peru. Center for Field Research, Earthwatch Grant. A. Paul, principal investigator. K. Jakes named as consulting senior scientist, 1983.

PROFESSIONAL SERVICE

DEPARTMENT, COLLEGE AND UNIVERSITY SERVICE

CS department Promotion and Tenure committee chair, 2009-2010.

EHE Honors program review. Special assignment from the associate dean of the College of Education and Human Ecology, January – June 2009.

Director, CollABoration, OSU labs at COSI, April 2007- December 2008
CollABoration transformation team leader at COSI, September 2007- December 2008
COSI Health and Medicine transformation team member, September 2007- December 2008
COSI Communication transformation team member, September 2007- December 2008
COSI Sustainability transformation team member, September 2007- December 2008

TC Program area search committee, TC lecturer position. 2006-2007.

Graduate Interdisciplinary Specialization committee, Analysis of Material Culture, developed proposal which was awarded in 2005. Member of the board 2005- 2007.

Textiles and Clothing Program area secretary, 2005-2006.

Graduate committee on the global consumer and the world marketplace. Recorder. 2004.

CTS Graduate coordinating committee, 2003- 2004.

Board of Regents Equipment Proposal review committee, Winter 2003

Graduate Studies Chair, Textiles and Clothing Program, June 2002 - 2004

College of Human Ecology Promotion and Tenure Committee chair, 2001-2002

CTS department search committee chair, Textiles and Clothing position, 2001- 2002.

Microscopic and Chemical Analysis Research Center, committee member, 1998- 2002

OARDC Committee on Research Competitive Grants programs, 2000- 2002.

Chair of the OARDC RECGP interdisciplinary grants review committee, 2001-2002.

College of Human Ecology Grant Writer's Group, with Dr. Bray, associate dean for research, 2000.

College of Human Ecology Executive Committee, 1995-1997

OARDC chairs meetings, 1995-1997

OSU Extension chairs meetings, 1995-1997.

CSREES GPRA Goal 5 chair, led group and wrote the Goal 5 document for submission to Washington, 1996-1997

Historic Costume and Textiles Collection Acquisition Committee, 1995 - 1998.

Friends of the Historic Costume and Textiles Collection, Executive Board, November, 1994-1997.

Computer Application Center Board, 1995-1997

Family Resource Management Graduate Studies Committee, member, 1995 through December, 1997.

Internship Review Committee, chair, 1997-1998 academic year.

Graduate School, Research and Graduate Council, September 1993- May 1995.

Graduate School, Curriculum Committee of the Research and Graduate Council, Subcommittee on Specializations Sept. 94-May 1995.

Graduate School, Curriculum Committee of the Research and Graduate Council, Subcommittee on Program Consolidations, Sept. 94- May 1995.

Graduate School, Curriculum Committee of the Research and Graduate Council, September 1993-May 1995.

Graduate School, Curriculum Committee of the Research and Graduate Council, Subcommittee on Quality Indicators of Graduate Programs, September 1993- June 1994.

College Vision Committee, Ad Hoc Committee on the structure of the College of Human Ecology, April 1992- June 1993.

College Promotion and Tenure Committee, October 1992 - November 1994, September 1999- present.

Chair, Department Promotion and Tenure Committee, Autumn 1993, Autumn 1994.

Chair, Program Review Committee, Department of Textiles and Clothing, Ohio State University (1990-1992)

Member, Ohio State University Center for Materials Research (1990-present)

Chair, Graduate Studies Committee, Department of Textiles and Clothing, Ohio State University (1989-September 1993)
(Acting chair Spring quarter 1994)

Member, Graduate Liaison Committee, College of Human Ecology, Ohio State University (1989-September 1993).

Member, Promotion and Tenure Committee, Department of Textiles and Clothing, Ohio State University, (1989-present).

Chair, Graduate Student Advisory Committee, Department of Textiles and Clothing, Ohio State University, (1988-1989).

Member, Search Committee, Vice-Lapitsky Position, Department of Textiles and Clothing, Ohio State University, (1987-1988).

Member, Search Committee, Vice-Sibley Position, Department of Textiles and Clothing, The Ohio State University, (1987-1988).

Member, Graduate Studies Committee, Department of Textiles and Clothing, Ohio State University, (1987-present).

Secretary, Graduate Studies Committee, Department of Textiles and Clothing, Ohio State University, (1987-1989) and
(September 1993-present)

Graduate Admissions Officer, Department of Textiles and Clothing, The Ohio State University, (September 1987-
September 1992).

Member, Advisory Committee for the Historic Textiles and Costume Collection, Department of Textiles and Clothing,
The Ohio State University, (1987-1989).

Chair of the Excellence in Teaching Subcommittee, Instructional Advisory Committee, U. Georgia, 1980-83.

Representative of the College of Home Economics, Instructional Advisory Committee, U. Georgia, 1980-83.

Laboratory Safety Officer, Department of Clothing, Textiles, Interiors, U. Georgia, 1979-1984.

Service to the Field of Textiles

International committee member. Textile Fiber digital database committee, planning group sponsored by NPS and NCPTT, first meeting held in April 2003, second meeting April 2005. committee chair for glossary and mounting technique definition. Continued work on image collection and proposal preparation for NEH. 2003 – present. Request to NCPTT October 2008 awarded 2009.

Book Editor

Archaeological Chemistry: Materials, Methods, and Meaning. American Chemical Society Symposium Series 831 (2002).

Manuscript Review

American Antiquity review, September 2009.

Archaeometry review, June 2008.

Journal of Archaeological Science review May 2008.

E.A., Jolie and M. E. McBrinn, book chapter entitled “Retrieving the Perishable Past: Experimentation in Perishable Artifacts Studies.”

American Chemical Society Archaeological Chemistry symposium volume Archaeological Chemistry: Analytical Techniques and Archaeological Interpretation, 2006, reviewed two manuscripts for the volume.

American Antiquity, manuscript review, January, 2004

Ohio Archaeology, book review, October 2004.

Journal of Arid Environments, manuscript review, April, 2003, July, 2003.

American Chemical Society book chapter, October 2000.

Journal of Applied Polymer Science, July, 1999, January 2000, April, 2000.

Journal of Archaeological Science, February 2005, two reviews. May, 1999, April 1994

Textile Research Journal, March 2004, May 2003, March, July, 2002, January December, 2001, August, November 2000, February, July, 1999, March, August, November 1998, May, December 1997, April, 1996, three reviews June 1995.

Clothing & Textiles Research Journal, April, 2002, May 1998, October, 1999, Dec 1990, April 1991.

Science April 1998

Archaeology, July 1995.

Kiva, February, March 1994.

Journal of Field Archaeology, Spring 1993.

6th Edition Textile Science November, 1990, February 1991, and July 1991,

Abstract review

ITAA annual meetings, annual reviews of textile and fiber science abstracts submitted for the meetings

Korean Textiles and Clothing Society, March 2001

Grant Proposal Review

Reviewed small business innovation research proposal for the USDA. January 2006.

Reviewed two Fulbright scholar applications, Council for International Exchange of Scholars. September, 2004

Reviewed two Fulbright scholar applications, Council for International Exchange of Scholars September 2006.

Reviewed proposal for the National Park Service National Preservation Trust Grants Program, March 2002.

Reviewed proposals for the Interdisciplinary and Payne Agroecology Grants programs for OARDC 2000, 2001, 2002.

Proposal review, Natural Environment Research Council, UK, January, 2001

Earthwatch Proposal for The Center for Field Research, August 1998.

Reviewed a proposal on natural dyeing for the University of Manitoba, Winnipeg, March 1998.

Proposal, North Carolina Biotechnology Center, April, 1995.

Proposal, State University of New York, 1990.

Research Report Review, Natural Environment Research Council, U.K. July, 1999.

Volunteer Services

State Science Fair Judge, 2001, 2009.

Interviewed applicants to Metro High School, May 2007.

Provided a copy of *Archaeological Chemistry: Materials, Methods, and Meaning* to the Instituto Microbiologías y Zoología Agrícola. INTA Biblioteca, Argentina. September 2004.

Provided fiber micrographs for use in a Dispatch story on art and science. November 2004.

Provided a report on the alpaca fiber research for Susan Tellez to present in teaching fiber judges at Alpaca Jack's Suri Farm, Findlay, OH. December, 2000.

Gave presentation on Archaeological Textiles for the COSI Electronic experts program, April, 2002,

Met with freshman from Benjmain Logan High School on her science fair project on alpaca fiber, December 2000 and ongoing.

Camelid Fiber Product Judge, Ohio State Fair, August, 2000, 2001, 2002.

Provided interviews for high school chemistry students from Thomas Worthington High School, spring 2000, 2001, 2002.

District Science Fair Judge, March, 1999, March 2000, 2001, 2002. Columbus, OH

Provided microscopes and information for COSI CSI carts for summer 2008 exhibit.

Provided recommendations on recycled fibers for the COSI on Wheels program, March 1998.

National Chemistry Week, American Chemical Society Volunteer, National Chemistry Day, Center of Science and Industry, Columbus, November, 1997.

Professional Organizations

Central Region American Chemical Society meeting, June 2008. assisted the central region committee in advertising to high school and middle school teachers, and to arrange a reception at COSI.

Conference Organizer, Fiber Conference at the Camelid Health Conference, December 7,8, 2001, College of Veterinary Medicine, Ohio State University.

Symposium Organizer, Archaeological Chemistry, The 222nd American Chemical Society National Meeting, Chicago, IL, August 2001.

Editor of American Chemical Society Symposium Series volume on Archaeological Chemistry, 2001-2002.

Conference Organizer, Fiber Conference at the Camelid Health Conference, December 8, 2000, College Veterinary Medicine, Ohio State University.

Nominated to NEH proposal review board, August, 1993, renewed October 1996, renewed January 1999.

Consultant on textile conservation science, Columbus-America Discovery Group 1991-1998.

Session Chair, Analytical Methods for the Study of Textiles, Central Region American Chemical Society Meeting June 22, 1999. Columbus, OH.

Review abstract proposals for the textile science section of the International Textile and Apparel Association meeting, Autumn 1993, 1994, 1996, 1997, 1999, 2000.

Other

Provided advice to the Flight Training Systems Office, Wright Patterson Air Force Base, 6 month period in 2004.

Copy of Archaeological Chemistry provided to Instituto Microbiologia y Zoologia Agricola INTA, Argentina. November 2004.

Photomicrographs provided to OSU communications for a publication on the art of science to be published in the Columbus Dispatch.

Served on the dissertation committee of Susan Jacob, PhD candidate at the Avinashilingam University for Home Science, Coimbatore, India, March 1998.

Review of Recycling Textiles OCES extension program, May 1995.

Review of promotion and tenure documents on regular basis for candidates at other universities.

Adviser/ Coadviser
THESES AND DISSERTATIONS COMPLETED

Joycelyn Falsken, Charles Kleibacker, Master of the Bias Cut: Designs, Construction and Techniques. (dissertation) March 2008. Jakes served as coadvisor.

Louise Friend, Collection of a New Visual Color Dataset and Comparison to Color Difference Equations. June 2006 (thesis)

Christel Baldia, Development of a protocol to detect and classify colorants in archaeological textiles and its application to selected prehistoric textiles from Seip Mound in Ohio. August 2005 (dissertation)

Heather Mangine, Variability in experimental color matching conditions: Effect of daylight simulators, color inconstancy, and observers. June 2005 (dissertation)

Sohie Shim, Analytical Methods for Differentiating Huacaya and Suri Alpaca Fibers. December 2003. (dissertation)

Mia Peace, Evaluation of Dye Prediction Software: Acid Dyes on Nylon 6,6. August 2003. Master's nonthesis option.

Amanda Thompson, Textiles as Indicators of Hopewellian Culture Burial Practices. June 2003. (dissertation)

Suzan Jankulovski, Advanced Color Difference Equations: A Small Application. June 2003. Master's nonthesis option

Christel Baldia, Technology of dyeing with bloodroot. March 2003 (thesis)

Angela Curl, Optical microscopy techniques for hair fiber examination: protocol development and application to archaeological textiles. December 2002 (thesis).

Erica Tiedemann, Characterization of Prehistoric Spinning Technology: Toward the Determination of Spinning Practices Employed in Mississippian Textiles. December 2001 (Dissertation).

Rekha Srinivasan, Study of the Microstructure of Silk Textiles Recovered from a Deep Ocean Site. March 2001. (Dissertation)

Amanda Thompson, Experimental replication of dyeing toward an understanding of dyeing processes used in prehistoric eastern North America. December 1999 (thesis)

Runying Chen, A Study of Cotton Fibers Recovered from a Marine Environment, The Ohio State University, September 1998 (dissertation).

Allyson Tenney, Evaluation of Selected Properties of Poly(ethylene) Terephthalate and Recycled Poly(ethylene) terephthalate Fabrics, The Ohio State University, June 1997 (thesis)

Hsiou-lien Chen, Microstructures of Mineralized Cellulosic Fibers, The Ohio State University, March 1995 (dissertation)

Laurie C. Crawford, The Analysis of Mid-nineteenth Century Men's Outer-garments from a Deep Ocean Site, Co-adviser L.R. Sibley The Ohio State University, June 1994 (dissertation)

Suzanne K. Douthitt, The Development of a Model To Indicate Residual Wear Life in Recycled Clothing, The Ohio State University, August 1993 (dissertation)

Rekha Srinivasan, An Exploration of the Effects of Carbonization of Plant Fibers, The Ohio State University, August 1993 (master's thesis).

Wenwei Wang, Evaluation of the Effect of the Deep Ocean Environment on the Physical and Chemical Characteristics of Linen Fabric, The Ohio State University, December 1992 (master's thesis).

Mary E. Swinker, An Artifact Study of Harmonist Patterned Silk Textiles, 1826-1852, coadviser, L.R. Sibley, The Ohio State University, August 1991 (dissertation).

Cheunsoon Ahn Song, Variations in Fiber Morphology of Prehistoric Textiles from the Seip Group of Mounds: A Model for Explanation, coadviser, L.R. Sibley, The Ohio State University, June 1991 (dissertation).

Jean Durliat Hines, Cognitive Structures of Consumers' Perceptions of Perceived Clothing Quality: A Means-End Chain Analysis, coadviser, G. S. O'Neal, The Ohio State University 1990 (dissertation)

Barbara Ann Umble, Fourier Transform Infrared Spectroscopic Techniques in the Study of Neps in Selected Nonwoven Textiles, University of Georgia 1983 (thesis).

HONOR'S THESES

Patricia Serafy, A Morning Dress of the Mid 1850s: Definition of Style, Use and Function. June 1995.

Katherine Fritsch, The Mummy Bundles of Paracas, a microscopic look. June 1991.

MEMBERSHIPS

American Association of Textile Chemists and Colorists
American Chemical Society
American Institute for Conservation
Society for Archaeological Sciences

HONORS AND AWARDS

Ohio Agricultural Research and Development Center Research Award, May 2000.

Selected as keynote speaker for Gordon Conference on Fiber Science, New London, New Hampshire, July 1999.

Elected to Class V of the ESCOP/ACOP Leadership development program, September 1995

Received the College of Human Ecology Dean's Faculty Recognition Award, May 1995.

Elected to Phi Kappa Phi, May 1994.

Nominated for the 1994 faculty award by the Human Ecology Alumni Society.

A micrograph from the fiber research was published in the 1994 Ohio Academy of Science calendar.

Nominated a member of the Textile Institute, April, 1994.

Elected a member of the Fiber Society, June 1992.

Selected as one of eight researchers in plants to be featured in a video to be shown at the Ameriflora Exhibition.

Selected as featured research investigator of the College of Human Ecology for the 1991 Ohio Agricultural Research and Development Center Annual Report.

Included in the "Selected Projects" publication of the 1987 Rolex Awards for Enterprise.

Poster presentation "Preparation and elemental analysis of ancient fibers" selected as one of ten for the 1987-1988 Electron Microscopy Society of America traveling exhibit.