

CHANDRA L. REEDY

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Director, Center for Historic Architecture and Design
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Education:

Ph.D. (Archaeology) University of California, Los Angeles, 1986. Specializations: Asia; Archaeological Science

M.A. (Archaeology) University of California, Los Angeles, 1982

B.A. (Cultural Anthropology) University of California, Davis, 1975

Academic Appointments:

Professor, University of Delaware, 2001-present

Primary appointment: Joseph R. Biden School of Public Policy and Administration

Joint and affiliated appointments: Departments of Anthropology and Art History, Asian Studies Program, Center for Global and Area Studies, and Winterthur Program in American Material Culture

Past appointments: Museum Studies Program, Department of Art Conservation

Associate Professor, University of Delaware, 1994-2001 (tenured 1994)

Assistant Professor, University of Delaware, 1989-1994

Visiting Lecturer, University of California, Los Angeles, Department of Art History and Interdepartmental Archaeology Program (joint appointment), 1988

Courses Taught:

Current: Historic Preservation Theory and Practice; World Heritage Sites; Traditional Architectural Materials, Art and Architecture of Tibet

Recent past: Grantsmanship and Proposal Writing; Professional Development for Ph.D. Students; Technology and Science of Cultural Materials; Undergraduate Research on Cultural Materials;

Past Courses: Issues in Himalayan Art and Archaeology; Art of India; Asian Art; Conservation Research Issues and Ethics; Science and the Detection of Art Forgeries

Administrative Roles:

Director, Center for Historic Architecture and Design, University of Delaware, 2017-present

Director, Graduate Certificate Program in Historic Preservation, University of Delaware, 2017-present

Director, Laboratory for Analysis of Cultural Materials, University of Delaware, 1998-present

Director, Ph.D. Program in Art Conservation Research, University of Delaware, 1989-2003

Research Positions:

Visiting Researcher, Key Scientific Research Base of Ancient Ceramics (The Palace Museum), State Administration of Cultural Heritage, People's Republic of China, 2012-2016

Guest Fellow, Palace Museum Research Center for Tibetan Buddhist Heritage, 2009-2010

Co-Curator, The Computing Museum at the University of Delaware, 2006-2008

Associate Research Scientist, Los Angeles County Museum of Art Conservation Center, 1988-1989

Andrew W. Mellon Research Fellow, Los Angeles County Museum of Art Conservation Center, 1985-1988

Recent Fieldwork:

Sichuan Province, China: October, 2017; July, 2014; April 2014; March-April 2011

Japan (Nagoya area, and Akita Prefecture): August and December, 2013

Amdo region of eastern Tibet (Aba Tibetan and Qiang Prefecture, Sichuan Province, China) and Lhasa (Tibet Autonomous Region, China): May-June 2009; October 2008; May-June 2007

Dharamsala (Himachal Pradesh, northern India): March-April 2006

Selected Research Grant Funding:

2022-2024 National Center for Preservation Technology and Training (\$19,995)
New Methods for Nondestructive Microanalysis of Archaeological Ceramic Surfaces for Anthropological and Conservation Research

2019-2021 National Center for Preservation Technology and Training (\$29,626)
Enhanced Documentation and Analysis of Porosity in Deteriorated Historic Bricks for Preservation Studies

2016-2017 Wenner-Gren Foundation for Anthropological Research (\$19,970)
Factors Supporting Experimentation at Highly Innovative Ethnographic Pottery Production Sites

2013-2015 National Science Foundation (\$38,998)
U.S. China Planning Visit: Roots of Technological Innovation and Change in Ceramic Traditions of Sichuan Province

2013-2015 National Center for Preservation Technology and Training (\$25,000)
Simple Rapid Corrosion Tests with Quantitative Image Analysis for Materials Preservation

2011-2014 National Science Foundation (\$139,656)
Calibration of Digital Image Analysis Protocols for Archaeological Ceramics

2013-2014 University of Delaware Center for Teaching and Assessment of Learning (\$8,500)
Portable Interactive Laboratory e-Tutorials

2013-2014, 2018-2019 University of Delaware Center for Global and Area Studies (\$8,500)
Technological Innovation and Change in Black Ceramic Traditions, Sichuan Province, China

2012-2015 Key Scientific Research Base of Ancient Ceramics (The Palace Museum), State Administration of Cultural Heritage, People's Republic of China (RMB 50,000)
Petrographic and Digital Image Analysis of Ceramic Thin Sections from the Five Classic Wares of Song Dynasty

2009-2011 University of Delaware Center for International Studies (\$26,500)
Global Partnership Grant: Development of Joint Fieldwork Initiatives Between the University of Delaware and the Palace Museum (Forbidden City, Beijing)

- 2009-2011 National Center for Preservation Technology and Training (\$25,000)
Development of Web-Accessible Training in Thin-Section Petrography of Cultural Materials
- 2006-2008 College of Arts and Sciences, University of Delaware (\$25,000)
The Computing Museum Research Project
(With Professors Paul Amer and Lori Pollock, Computer and Information Sciences, UD)
- 2005-2006 Center for International Studies, University of Delaware (\$10,000)
Preservation and Change in Traditional Tibetan Craft Technologies
- 2003-2006 National Center for Preservation Technology and Training (\$32,900)
Thin-Section Petrography of Cultural Materials
- 2002-2004 National Center for Preservation Technology and Training (\$39,788)
Image Analysis of Petrographic Thin Sections in Preservation Studies
- 1998-2001 National Center for Preservation Technology and Training (\$133,020)
Evaluation of Primary Sulfur Dioxide Deposition on Architectural Carbonate Stone
(with Ph.D. student E. Bede)
- 2000-2006 American Institute for Conservation, Samuel H. Kress Fellowship (\$18,000)
Thin Section Petrography of Cultural Materials
- 1999-2000 National Center for Preservation Technology and Training (\$35,250)
A New Protocol for the Analysis of Historic Mortars, Phase 2 (with postdoc E. Goins)
- 1999-2000 Samuel H. Kress Foundation (\$10,000)
Accelerated Aging Tests and Analysis of Historic Mortars (with postdoc E. Goins)
- 1998-1999 National Center for Preservation Technology and Training (\$49,956)
Development of a Standard Protocol for Analysis of Historic Mortars (with postdoc E. Goins)
- 1998-1999 Samuel H. Kress Foundation (\$20,000)
Analysis of Historic Mortars (with postdoc E. Goins)
- 1996-1997 National Center for Preservation Technology and Training (\$36,000)
Deterioration of Architectural Stone (with Ph.D. student E. Bede)
- 1994-1996 National Park Service (\$39,777)
Development of Electrochemical Testing For Assessing Effects of Exhibition Materials on Metal Artifacts, Phases I and II
- 1993-1995 University of Delaware Research Foundation (\$30,300)
Measurement of Radioactive Lead-210 for Dating of Artifacts
- 1993 National Institute for Conservation (\$3,000) and Foundation of the American Institute for Conservation (\$5,000)
Publication subvention grants, *Research Priorities in Art and Architectural Conservation*

- 1990-1991 Ancient India and Iran Trust (\$10,000)
Technical Studies of Gandharan Artifacts from Afghanistan and Pakistan
- 1990-1991 General University Research Grant, University of Delaware (\$4,000)
Method and Theory in Regional Provenance Studies
- 1986-1987 Getty Conservation Institute (\$20,000) (Co-Principal Investigator with Terry J. Reedy)
Critical Review of Statistical Analysis in Art Conservation Research
- 1983-1984 Wenner-Gren Foundation for Anthropological Research (\$4,370)
Field Survey of Copper Mines, Smelting Sites, and Bronze Casting Centers in Northern Indian States of Uttar Pradesh, Himachal Pradesh, and Jammu-Kashmir
- 1983-1984 Edward A. Dickson History of Art Travel Fellowship (\$4,000)
Metallurgical Studies in Northwest India

Journal Editorial Board Leadership:

Editor-in-Chief, *Studies in Conservation*, 2010-present (supervising an international team of 30 associate editors, for International Institute for Conservation of Historic and Artistic Works, London)

Guest Editor (with Miguel Ángel Caja, Madrid, Spain and Ardiansyah Koeshidayatullah, Dhahran, Saudia Arabia) for special issue of *Minerals* on “Applications of Microscopy Image Processing and Machine Learning in Thin Sections”, 2023-2024

Principle Editor, *MRS Advances* (Materials Research Society), 2016-2017

Editor-in-Chief, *Journal of the American Institute for Conservation*, 1995-2003 (Senior Editor, 1994-1995)

Associate Editor, *Archaeometry*, 1995-2000

National and International Workshops Presented:

Thin-Section Petrography of Stone and Ceramic Cultural Materials, sponsored by the Freer Gallery of Art, Washington, D.C., *July 2009*; repeated for National Center for Preservation Technology and Training/National Park Service, at National Training Center, Shepherdstown, West Virginia, *March 2012* and in Natchitoches, Louisiana, *March 2013*; in *March 2016*, Phoenix Arizona, for National Park Service; in *March 2018* for APSARA Ancient Ceramic Storage Study Center, Siem Reap, Cambodia, and in *November 2019* at Palace Museum, Beijing, China.

Scientific Methodology for Conservation Treatment Selection, sponsored by the American Institute for Conservation of Historic and Artistic Works in St. Paul, Minnesota, *June 1995*; repeated for them again in San Diego, California, *June 1997*; for the Washington Conservation Guild and the National Park Service, in Shepherdstown National Training Center, West Virginia, *December 1999*; for the Colonial Williamsburg Foundation, *September 2000*; for Rochester Institute of Technology (Image Permanence Institute), *January 2004*; for the American Institute for Conservation of Historic and Artistic Works in Minneapolis, *June 2005*; for the Library of Congress and National Archives, *May 2008*; for the Library of Congress Preservation and Research Division, *September 2010*; and for the National Center for Preservation Technology and Training in Natchitoches, Louisiana, *July 2016*.

Conservation of Historic Glass and Stained Glass (co-instructor for glass science with conservators Mary Clerkin Higgins, Julie Reilly, and Deborah Long), Gerald R. Ford Conservation Center, Omaha, Nebraska, *July 1998*. Sponsored by National Center for Preservation Technology and Training.

Recent Advances in the Conservation of Silver (co-instructor for metals science with conservators Deborah Long and Julie Reilly), Gerald R. Ford Conservation Center, Omaha, Nebraska, *August 2000*. Sponsored by National Center for Preservation Technology and Training.

Writing, Reviewing, and Publishing Journal Articles (co-instructor with Barbara Appelbaum and Deborah Bede), New York University, *November 2001*, sponsored by the American Institute for Conservation and the Textile Specialty Group of the AIC. Repeated in Miami, *June 2002*; and in Washington, D.C., *June 2003*. Incorporated as part of Webinars delivered for the International Institute for Conservation: *November 2019, February 2023, and March 2023*.

Current Professional Memberships:

American Institute for Conservation of Historic and Artistic Works (Professional Associate)
International Institute for Conservation of Historic and Artistic Works (elected Fellow, 2016)
Society for American Archaeology
Society for Archaeological Sciences

Selected Professional Service:

American Institute for Conservation Task Force on Digital Library Structure (2018)
American Institute for Conservation Digital Competencies Task Force (2016-2017)
Scientific Committee, CAST:ING project (Copper Alloy Sculpture Techniques and history: International iNterdisciplinary Group), 2015-2023
Archaeological Institute of America, Pomerance Science Medal Committee, 1996-2011
Internal Advisory Group, American Institute for Conservation, 1995-2003
Publications Committee, American Institute for Conservation, 1993-2004
Heritage Preservation, Nominating Committee member 2001-2004 and Chair 2003-2004
European Conservation Science Ph.D. Design Committee, International Centre for the Study of the Preservation and Restoration of Cultural Property (Rome), 2000-2003
Board of Directors, American Institute for Conservation of Historic and Artistic Works, 1991-1994
Board of Directors, American Committee for South Asian Art, 1989-1992
Smithsonian Institution Scholarly Studies Grant Review Committee, 1989-1991, 1996-1997
Chair, Task Force on Conservation Science, American Institute for Conservation, 1990-1991

Special Awards:

Elected Fellow of American Anthropological Association, 1993
Elected Fellow of the International Institute for Conservation of Historic and Artistic Works, 2016
Exemplary Application of Teaching Technology Award, IT-User Services, University of Delaware, 2005
Innovative Teaching Award in Distance Education, University of Delaware, 2004
Rutherford John Gettens Award, for exemplary service to the American Institute for Conservation, 2003

Selected Recent University of Delaware Leadership and Service Activities

Faculty Senator (Biden School Representative), 2022-present
Chair, University Faculty Senate Promotions and Tenure Committee, 2020-2021 (Member, 2019-2020)
Member, Provost's Task Force on Equity in Faculty Evaluation, 2020
Member, School of Public Policy and Administration Promotions and Tenure Committee, 2016-2019; 2023-2024; and Governance Committee, 2022-present
Member, UD IT Online Working Group 2018-2019
Member, College of Arts and Sciences Promotions and Tenure Committee, 2016-2018
Member, College of Arts and Sciences Social Sciences Sponsored Research Working Group, 2017-2018
Member, Anthropology Department Chair Search Committee, 2013-2014
Chair, School of Public Policy and Administration International Studies Committee, 2011-2013
Member, Graduate College Sypherd Dissertation Prize Committee, 2016, 2020, 2023

Publications

Authored or co-authored books:

Chandra L. Reedy. 2008. *Thin-Section Petrography of Stone and Ceramic Cultural Materials*. London: Archetype Publications, 256 pages.

Chandra L. Reedy. 1997. *Himalayan Bronzes: Technology, Style, and Choices*. London and Newark: University of Delaware Press, 341 pages.

Terry J. Reedy and **Chandra L. Reedy.** 1992. *Principles of Experimental Design for Art Conservation Research*. Malibu: J. Paul Getty Trust, 114 pages. Republished in updated electronic edition by Getty Conservation Institute, Los Angeles, 2008, 123 pages.

Terry J. Reedy and **Chandra L. Reedy.** 1988. *Statistical Analysis in Art Conservation Research*. Research in Conservation series, No. 1. Malibu: J. Paul Getty Trust, 106 pages.

Edited volumes:

Aaron Shugar, Pamela Vandiver, **Chandra L. Reedy**, and Stavroula Golfomitsou, editors. *Materials Issues in Art and Archaeology XI (Also published as a series of four special issues of MRS Advances)*. 2017. New York: Cambridge University Press and the Materials Research Society, 456 pages.

Pamela B. Vandiver, Weidong Li, Jose Luis Ruvalcaba Sil, **Chandra L. Reedy**, and Lesley D. Frame, editors. 2011. *Materials Issues in Art and Archaeology IX*. Materials Research Society Vol. 1319. New York: Cambridge University Press, 385 pages.

Eric F. Hansen and **Chandra L. Reedy.** 1994. *Research Priorities in Art and Architectural Conservation*. Washington, D.C.: American Institute for Conservation, 180 pages.

Scholarly peer-reviewed articles:

Manon Castelle and **Chandra Reedy.** In press for June 2024. Core Analysis. In *Guidelines for the Technical Examination of Bronze Sculpture*, edited by David Bourgarit, Jane Bassett, Francesca G. Bewer, Arlen Heginbotham, Andrew Lacey, and Peta Motture. Los Angeles: Getty Publications. Vol. 2, Chapter 7, pp. 126-132.

Chandra L. Reedy. 2024. The Disappearing Technology and Products of Traditional Tibetan Village Blacksmiths. *Heritage*, 7: 965-982, <https://doi.org/10.3390/heritage7020046>.

Chandra L. Reedy. 2023. Black Coal Cinder Ceramics: An Unusual Technological Choice in Sichuan Province, China. *Technè* 55: 50-63.

Chandra L. Reedy. 2023. Body Relics in Tibetan and Mongolian Traditions. In: *Research on Early Chinese Lacquer Buddhas*, edited by Donna Strahan and Blythe McCarthy. London: Archetype Publications, pp. 85-94.

Chandra L. Reedy and Cara L. Reedy. 2022. Micro-Computed Tomography with 3D Image Analysis to Reveal Firing Temperature Effects on Pore Systems in Archaeological and Ethnographic Ceramics. *Applied Sciences*, 12(22):11448, <https://doi.org/10.3390/app122211448>.

Chandra L. Reedy and Cara L. Reedy. 2022. High-resolution Micro-CT with 3D Image Analysis for Porosity Characterization of Historic Bricks. *Heritage Science* 10:83, <https://doi.org/10.1186/s40494-022-00723-4>.

Chandra L. Reedy. 2022. Porosity Studies of Chinese Ceramics by High-Resolution Micro-CT with 3D Image Analysis. In *2022 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Song Lixin and Chen Lidong. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 78-81.

Chandra L. Reedy. 2021. Technological Style and Materials Analysis of Sri Lankan Sculptures. In: *Legacy of Kings: Art of Sri Lanka*. Phoenix: Phoenix Art Museum, pp. 114-129.

Chandra L. Reedy. 2020. 3D Documentation and Analysis of Porosity in Deteriorated Historic Brick. *Studies in Conservation* 65(S1): 258-261. Reprinted in *Current Practices and Challenges in Built Heritage Conservation*, edited by Austin Nevin, Joyce H. Townsend, Barry Knight, David Saunders, Jo Kirby Atkinson, Sarah Staniforth, and Noëlle Streeton. 2020. London: Archtype Publications.

Chandra L. Reedy. 2019. Images of Conflict and Recovery at the Tibetan Buddhist Monastery of Kangwu. In: *Indology's Pulse: Arts in Context*, edited by Corinna Wessels-Mevissen and Gerd J. R. Mevissen. New Delhi: Aryan Books International, pp. 417-430.

Chandra L. Reedy, Nicholas J. Kivi, and Pamela B. Vandiver. 2018. Technological Achievements of the Xiba Kiln of Leshan City, Sichuan Province. In *2018 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Chen Shiping. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 68-77.

Pamela B. Vandiver, Patrick Horrocks, He Ting, and **Chandra Reedy**. 2018. Strength, Toughness and Microstructure of Ceramic Composite Tools, Stoves and Cookware from Ancient Mesopotamia and Continuing Traditions from Sichuan. In *2018 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Chen Shiping. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 11-22.

Cara L. Reedy and **Chandra L. Reedy**. 2017. Making Traditional Pottery Sustainable Today: Three Case Studies in Akita Prefecture, Japan. In: *Inventive Approaches and Explorations in Ceramic Studies*, edited by Sandra L. López Varela. Oxford: Archaeopress, pp. 129-143.

Chandra L. Reedy, Pamela B. Vandiver, Ting He, and Ying Xu. 2017. Talc-rich Black Tibetan Pottery of Derge County, Sichuan Province, China. *MRS Advances* 2(35-36): 1943-1968.

Chandra L. Reedy, Pamela B. Vandiver, Ting He, Ying Xu, and Yanyu Wang. 2017. Research into Coal-clay Composite Ceramics of Sichuan Province, China. *MRS Advances* 2(37-38): 2043-2079.

Chandra L. Reedy. 2017. Incorporating Image Analysis into Ceramic Thin-Section Petrography. In: *Twenty-Year Retrospective of National Center for Preservation Technology and Training Sponsored Archeology*, edited by Tad Britt. Natchitoches, LA: NCPTT, pp. 47-54.

Chandra L. Reedy. 2016. Petrographic and Image Analysis of Thin Sections of Classic Wares of Song Dynasty. In: *Proceedings of International Symposium on Science and Technology of Five Great Wares of the Song Dynasty*, edited by Ningchang Shi and Jianmin Miao. Beijing: Science Press, pp. 381-390.

Chandra L. Reedy, He Ting, and Wang Yanyu. 2015. The Last Potter of Aba Tibetan and Qiang Prefecture in Jinchuan County, Sichuan Province, China. In *2015 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Chen Shiping. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 109-112.

Chandra L. Reedy, Pamela B. Vandiver, He Ting, Ying Xu, and Wang Yanyu. 2015. Preliminary Investigation of the Coal-Clay Composite Ceramics of Sichuan Province, China. In: *2015 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Chen Shiping. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 113-116.

Pamela B. Vandiver and **Chandra L. Reedy**. 2015. Studies of Technology and Crystal Growth in Black 'Hare's Fur' and 'Oil Spot' Ceramics from Jianyang Province. In: *2015 International Symposium on Ancient Ceramics – It's Scientific and Technological Insights*, edited by Chen Shiping. Shanghai: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 48-51.

MaryFran Heinsch, Pamela B. Vandiver, Kyra Lyublyanovics, Alice M. Choyke, **Chandra Reedy**, Perry Tourtellotte, and Claudia Chang. 2015. Ceramics at the Emergence of the Silk Road: A Case of Village Potters from Southeastern Kazakhstan during the Late Iron Age. In: *Materials Research Society Online Proceedings* Vol. 1656, 381 (pp. 251-281), doi# 10.1557/opl.2015.841.

Chandra L. Reedy, Jenifer Anderson, Terry J. Reedy, and Yimeng Liu. 2014. Image Analysis in Quantitative Particle Studies of Archaeological Ceramic Thin Sections. *Advances in Archaeological Practice* 2(4): 252-268.

Pamela B. Vandiver and **Chandra L. Reedy**. 2014. Traditional Craftsmanship and Technology of Jianyang Black Wares from Fujian, China. *Studies in Conservation* 59(S1): 169-172.

Chandra L. Reedy, Jenifer Anderson, and Terry J. Reedy. 2014. Quantitative Porosity Studies of Archaeological Ceramics by Petrographic Image Analysis. In: *Materials Research Society Online Proceedings*, Vol. 1656, pp. 337-353, doi# 10.1557/opl.2014.711.

Elizabeth S. Goins, Christopher Egert, Andrew Phelps, **Chandra Reedy**, and Joel Kinkaid. 2013. Modding the Humanities: Experiments in Historic Narratives. *Journal of Interactive Humanities* 1(1): 13-21.

Chandra L. Reedy. 2012. Image Analysis-Aided Light Microscopy of Glazed Ceramics: Identifying Technological Innovation and Style. *Studies in Conservation* 57(S1): 227-233.

Chandra L. Reedy. 2012. Image Analysis-aided Thin-Section Petrography of Archaeological Ceramics. In: *ISAC'12: Ancient Ceramics: Scientific and Technological Insights*, edited by L. Wang, J. Zhou, and S. Chen. Jingdezhen: Shanghai Institute of Ceramics, Chinese Academy of Sciences, pp. 203-205.

Chandra L. Reedy. 2011. Technological Tradition and Change in Tibetan Silversmithing Techniques in Songpan, Sichuan Province, China. In: *Materials Issues in Art and Archaeology IX*, edited by Pamela B. Vandiver, Weidong Li, Jose Luis Ruvalcaba Sil, Chandra L. Reedy, and Lesley D. Frame. Materials Research Society Vol. 1319. New York: Cambridge University Press, pp. 127-135.

Chandra L. Reedy. 2009. Research on Technological Style in Studies of Tibetan and Sino-Tibetan Art. In: *Studies on Sino-Tibetan Buddhist Art*, edited by Jisheng Xie, Wenhua Luo, and Anning Jing. Shanghai: Shanghai Century Publishing Company Limited and Shanghai Guji Press, pp. 545-564.

Chandra L. Reedy. 2009. Seeing History: Rediscovering the Art of Tibet through Modern Imaging Technology. *Glimpse: The Art & Science of Seeing* 22(2): 56-67.

Chandra L. Reedy. 2009. What Defines a Simhanada Avalokiteshvara (Sen-ge-sgra sPyan-ras-gzigs) Image. In: *Sino-Tibetan Buddhist Art Studies*. The Fourth International Conference on Tibetan Archaeology & Arts. Beijing, Capitol Normal University, pp. 343-51.

Chandra L. Reedy. 2008. Preserving Intangible Aspects of Cultural Materials: Bonpo Crafts of Amdo, Eastern Tibet. In: *Materials Issues in Art and Archaeology VIII*, edited by Pamela B. Vandiver, Blythe McCarthy, Robert H. Tykot, Jose Luis Ruvalcaba Sil, and Francesca Casadio. Materials Research Society Vol. 1047. Pittsburgh: Materials Research Society, pp. 331-51.

Chandra L. Reedy and Pieter Meyers. 2007. New Methods for Analyzing Thin Sections of Casting Core Materials: A Case Study with Southeast Asian Bronzes. In: *Scientific Research on the Sculptural Arts of Asia*, edited by Janet Douglas, Paul Jett, and John Winter. London: Archetype, pp. 191-212.

Chandra L. Reedy and Sherry Harlacher. 2007. Elemental Composition of Sri Lankan Bronzes: Technological Style and Change. In: *Scientific Research on the Sculptural Arts of Asia*, edited by Janet Douglas, Paul Jett, and John Winter. London: Archetype, pp. 61-72.

Chandra L. Reedy. 2006. Review of Digital Image Analysis of Petrographic Thin Sections in Conservation Research. *Journal of the American Institute for Conservation* 45(2): 127-146.

Chandra L. Reedy. 2006. Multiple Functions and Multiple Histories of Tibetan *Tsha-Tshas* (Votive Clay Images). *Studies in Conservation* 51(S2): 144-150.

Judith J. Bischoff, Jason A. Bustamente, **Chandra L. Reedy**, Richard A. Corbett, and Marc S. Walton. 2004. From an Idea of Creativity to a Product of Reliability: Update of Research on Electrochemical Testing of Exhibit and Storage Materials. *Objects Specialty Group Postprints* 10: 11-21.

Chandra L. Reedy and Sachin Kamboj. 2003. Comparing Comprehensive Image Analysis Packages: Research with Stone and Ceramic Thin Sections. In: *Developing a Web-Accessible Reference Library of Deteriorated Fibers*, edited by Jane Merritt. Harpers Ferry, WV: National Park Service, pp. 159-166.

Chandra L. Reedy. 2003. New Evidence for the Historical Context of Buddhist Bronzes from Swat Valley, Northern Pakistan. In: *Scientific Research in the Field of Asian Art*, edited by Paul Jett with Janet Douglas, Blythe McCarthy, and John Winter. London: Archetype Publications, pp. 134-140.

Billie Milam Weisman and **Chandra L. Reedy.** 2002. Technical Studies on Renaissance Bronzes. In: *Materials Issues in Art and Archaeology VI*, edited by P. Vandiver, James R. Druzik, Jennifer L. Mass, and Martha Goodway. Materials Research Society Vol. 712. Pittsburgh: Materials Research Society, pp. 483-495.

Elizabeth Goins and **Chandra L. Reedy.** 2000. The Application of Image Analysis to Thin-Section Examination in Objects and Architectural Conservation. *Objects Specialty Group Postprints* 7: 122-137.

Chandra L. Reedy, Richard A. Corbett, Deborah L. Long, Robert E. Tatnall, and Bradley D. Krantz. 1999. Evaluation of Three Protective Coatings for Indoor Silver Artifacts. *Objects Specialty Group Postprints* 6: 41-69.

Chandra L. Reedy, Richard A. Corbett, and Martin Burke. 1998. Electrochemical Tests as Alternatives to Current Methods for Assessing Effects of Exhibition Materials on Metal Artifacts. *Studies in Conservation* 43(3): 183-196.

Chandra L. Reedy. 1997. Technical Studies of Gandharan Art. In: *Gandharan Art in Context: East-West Exchanges at the Crossroads of Asia*, edited by Raymond Allchin, Bridget Allchin, Neil Kreitman, and Elizabeth Errington. Cambridge and New Delhi: Ancient India and Iran Trust and Regency Publications, pp. 267-283.

Chandra L. Reedy. 1997. Analysis of the Clay Cores. In: *The Sacred Sculpture of Thailand: The Alexander B. Griswold Collection of the Walters Art Gallery*, edited by H. W. Woodward, Jr. Baltimore: The Walters Art Gallery, pp. 266-277.

Marianne Weldon, Janice Carlson, **Chandra Reedy**, and Charles Swann. 1996. Application of PIXE to the Study of Renaissance Style Enamelled Gold Jewelry. *Nuclear Instrumental Methods in Physics Research, B: Beam Interactions with Materials & Atoms* 109/10: 653-657.

Chandra L. Reedy. 1996. Tibetan Bronzes: Technical Observations. *Marg* XLV11(No. 4): 78-93. Reprinted as a chapter in *On the Path to Void: Buddhist Art of the Tibetan Realm*, edited by Pratapaditya Pal. Bombay: Marg Publications, pp. 162-177.

Chandra L. Reedy. 1996. Optical Mineralogy. In: *Excavations at Anshan (Tal-e Malyan): The Middle Elamite Period*, edited by Elizabeth Carter. Philadelphia: University of Pennsylvania Museum, pp. 109-112.

Janice Leoshko and **Chandra L. Reedy**. 1994. Interdisciplinary Research on Provenance of Eastern Indian Bronzes: Preliminary Findings. *South Asian Studies* 10: 25-35.

Chandra L. Reedy and Terry J. Reedy. 1994. Relating Visual and Technological Styles in Tibetan Sculpture Analysis. *World Archaeology* 25(3): 304-320.

Chandra L. Reedy. 1994. Thin Section Petrography in Studies of Cultural Materials. *Journal of the American Institute for Conservation* 33(2): 115-129.

Terry J. Reedy and **Chandra L. Reedy**. 1994. Statistical Analysis in Conservation Science. *Archaeometry* 36(1): 1-23.

Chandra L. Reedy. 1993. The Role of a Ph.D. Degree in the Education of a Conservator. In: *ICOM Committee for Conservation 10th Triennial Meeting Preprints*, edited by Janet Bridgland. Paris: ICOMCC, pp. 738-742.

Chandra L. Reedy. 1992. Religious and Ethical Issues in the Study and Conservation of Tibetan Sculpture. *Journal of the American Institute for Conservation* 31(1): 41-50.

Terry J. Reedy and **Chandra L. Reedy**. 1992. Evaluating Lead Isotope Data: Comments . . . IV. *Archaeometry* 34(2): 287-289.

Chandra L. Reedy. 1992. The Materials and Technology of Gandharan and Related Copper-based Sculptures; Gandharan and Related Silver and Gold Objects; Petrographic Analysis of Gandharan Stone Sculptures; and Terracotta Technology of Gandharan and Related Sculptures. In: *From the Crossroads of Asia: Transformation in Image and Symbol*, edited by E. Errington and J. Cribb. Cambridge: Ancient India and Iran Trust, pp. 241-287.

Chandra L. Reedy. 1991. The Opening of Consecrated Tibetan Bronzes with Interior Contents: Scholarly, Conservation, and Ethical Considerations. *Journal of the American Institute for Conservation* 30(1): 13-34.

Chandra L. Reedy. 1991. Petrographic Analysis of Casting Core Materials for Provenance Studies of Copper Alloy Sculptures. *Archeomaterials* 6(2): 121-163.

Chandra L. Reedy. 1991. Archaeometallurgy: Medieval Bronzes of the Himalayan Mountain Kingdoms. *JOM (Journal of the Minerals, Metals & Materials Society)* 43(12): 6-9.

Chandra L. Reedy. 1991. A Tibetan Text on Metalworking from the Collected Writings of 'Ju Mi-pham. *Historical Metallurgy* 25(2): 37-46.

Terry J. Reedy and **Chandra L. Reedy.** 1991. The Statistical Analysis of Lead Isotope Data in Provenance Studies. In: *Materials Issues in Art and Archaeology II*, edited by Pamela B. Vandiver, James Druzik, and George S. Wheeler. Materials Research Society Vol. 185. Pittsburgh: Materials Research Society, pp. 39-48.

Chandra L. Reedy. 1991. Technical Analysis of Sculpture for Economic Studies of Past Societies. In: *Materials Issues in Art and Archaeology II*, edited by Pamela B. Vandiver, James Druzik, and George S. Wheeler. Materials Research Society Vol. 185. Pittsburgh: Materials Research Society, pp. 643-648.

Chandra L. Reedy. 1991. Two Himalayan Examples of the Accomplished Heroic Mañjuśri Image. *Oriental Art* 37(1): 35-41.

Chandra L. Reedy and Eric F. Hansen. 1991. Research Priorities and Treatment Trials in Paper Conservation. *The Book and Paper Group Annual* 10: 196-204.

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Presentations at professional meetings:

Presenter, session chair, panelist, or moderator at over 100 national and international professional meetings.

Other Invited Lectures:

Presented over 100 other invited lectures at universities and museums nationally and internationally.

Video Products: For exhibition, *Agents of Faith: Votive Objects in Time and Place*, Bard Graduate Center, New York City, 2018 – 2019: (1) *Workshop of Tsukpo Tsepel, Dharamsala, India* and (2) *Monks from Lhayul, a Bonpo Monastery near Songpan in the Abo Tibetan and Qiang Autonomous Prefecture of Sichuan*.

Both videos (recorded during my ethnographic fieldwork in India and China) are also included in a traveling exhibition titled *Gateway to Himalayan Art* for the following venues:

- Lehigh University Art Galleries, Lehigh University (January 30, 2023-May 26, 2023)
- McMullen Museum of Art, Boston College (September 2023-December 2023)
- Harn Museum of Art, University of Florida (Spring 2024)
- Frank Museum of Art, Otterbein University (Fall 2024)
- Utah Museum of Fine Arts, University of Utah (Spring 2025)
- Jordan Schnitzer Museum of Art, University of Oregon (Spring 2026)
- USC Pacific Asia Museum, University of Southern California (Fall 2026)

In addition, the two videos were incorporated in the Rubin Museum of Art's *Project Himalayan Art*, an online platform designed to encourage the incorporation of Himalayan, Tibetan, and Inner Asian art and cultures into humanities and liberal arts teaching curricula on Asia in higher education (went live in 2023).

My videos are found as part of the theme of "Art Making: Three-Dimensional Images (Clay):

<https://projecthimalayanart.rubinmuseum.org/themes/art-making/>

Radio Interviews:

China Radio International (CRI), *Tibetan Art Protection*, March 30, 2009

<http://english.cri.cn/7146/2009/03/30/1481s469474.htm>

Voice of America, Bengali broadcast, *South Asian Studies at the University of Delaware*, 1999

The Report: Radio News Source of the Chemical Manufacturers Association (about my research on protective coatings for historic silver objects), 1998

National Public Radio (NPR), *The Science of Art Conservation*, July 11, 1997

<http://www.npr.org/templates/story/story.php?storyId=1010733>