

Curriculum Vitae

Robert J. Speakman

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EDUCATION

- 2013 Ph.D., Archaeology, Department of Prehistory, Ancient History, and Archaeology, University of Barcelona.
- 2002 M.A., Anthropology, University of Missouri, Columbia.
- 1996 B.A., Anthropology, Northern Arizona University, Flagstaff, Arizona.
- 1995 A.A., Anthropology, Cochise College, Sierra Vista, Arizona.

CURRENT APPOINTMENTS

- 11/11–present Center for Applied Isotope Studies, University of Georgia. *Director and Associate Research Scientist* (promoted from Acting Director 11/13).
- 1/17–present Department of Geology, University of Georgia, *Adjunct*.
- 11/16–present Smithsonian Institution, National Museum of Natural History, Department of Anthropology, *Research Associate*.
- 5/14–present Department of Anthropology, University of Georgia, *Adjunct*.
- 7/14–present University of Georgia, *Graduate Faculty*.
- 2/12–present Center for Archaeological Sciences, University of Georgia, *Faculty Associate*.

PAST APPOINTMENTS

- 11/11–10/14 Smithsonian Museum Conservation Institute, *Research Associate*.
- 11/06–10/11 Smithsonian Museum Conservation Institute. *Department Head and Physical Scientist (GS14)*.
- 8/97–10/06 Research Reactor Center, Archaeometry Laboratory, University of Missouri–Columbia. *Senior Research Specialist*, (promoted from *Research Specialist* 2/04, promoted from *Senior Research Laboratory Technician* 2/01, promoted from *Student Research Assistant* 8/99).
- 6/99–8/99 ReMap Project, American Archaeology Division, University of Missouri–Columbia, *Archaeology Assistant*.

- 8/97–5/98 American Archaeology Division, University of Missouri–Columbia. *Curation Assistant.*
- 5/97–8/97 Missouri Department of Transportation, Jefferson City, Missouri. *Archaeology Assistant.*
- 1/96–5/97 Slant Village Project, Northern Arizona University, Flagstaff, Arizona. *Ceramic Analyst.*
- 9/95–1/96 Lake Ilo Project, Northern Arizona University, Flagstaff, Arizona. *Lithic Analyst.*

CURRENT SERVICE, COMMITTEE LEADERSHIP, & OUTREACH

- 2016–present Member at Large, Center for Archaeological Sciences, University of Georgia
- 2016 UGA Ethics Team Coach, Society for American Archaeology
- 2015–present Member, University Council
- 2015–2016 2016 Southeastern Archaeology Conference Organizing Committee
- 2015–present Tier I Judge, Annual Georgia Science and Engineering Fair
- 2014–present Chair, Norman Herz Small Grants for Student Research Awards, Center for Archaeological Sciences, University of Georgia
- 2014–present Editorial Board, *Science and Technology in Archaeological Research*
- 2014–present Associate Editor, *Journal of Archaeological Science: Reports*
- 2014–present Associate Editor, *Geoarchaeology*
- 2010–present Advisory Group (intermittent), NSF Elemental Analysis Facility, The Field Museum
- 2007–present Collaborator, Archaeometry Laboratory, University of Missouri

RESEARCH INTERESTS

Geochemistry and archaeological science; environmental studies (heavy metals/industrial pollution and global and prehistoric climate change); terminal Pleistocene archaeology; prehistory of the Northern Plains, American Southwest, Alaska, and Northeast Asia; contact and acculturation, scientific method; quantitative research methods; and development of new analytical technologies, especially portable instrumentation.

GRANTS, CONTRACTS, & OTHER FUNDING

- 2012–present The Center for Applied Isotope Studies at the University of Georgia (CAIS) is a 100% self-funded research center comprised of ca. 28 research faculty and staff and >12 undergraduate and graduate students. As Director, I am responsible for generating revenues of ca. \$2.2M to \$2.8M annually, through fee-for-service analyses, grants, and contracts to fund the Center. 2012–present: >\$11M.

- 2017 University of Georgia Junior Archaeology Program (with KC Jones, B. Ritchison, M. Colvin, J. Cramb, T. Jones, I. Lulewicz, K. Napora, K. Reinberger V.D Thompson, A.M. Hunt). Southeastern Archaeological Conference, \$2000, Jan 1, 2017–Dec. 31, 2017. PENDING REVIEW.
- 2017–2018 Manihiki and Rakahanga: Persistence on the Margins of Oceania. Doctoral Research Support for Justin Cramb. National Geographic Society, \$19,900, May 1, 2017–Dec. 31, 2018. PENDING REVIEW.
- 2015–2016 Microcystis Monitoring Drought 2015. State of California, \$28,979, Aug. 21, 2015–Dec. 31, 2016.
- 2014–2016 Prehistoric Obsidian Transport and Human Interactions Across the Bering Strait National Park Service \$42,821, Jan. 1, 2014–Dec. 31, 2017.
- 2012–2016 Prehistoric Native Copper Technology in Northwest North America: Innovation, Diffusion, and Heritage. Purdue University subcontract of National Science Foundation Grant 1108250, \$20,000, Sept. 1, 2012–Aug. 31, 2016.
- 2012–2014 REU Site: Research Experiences for Undergraduates in Archaeological and Museum Conservation Sciences at the Smithsonian Museum Conservation Institution (with C. France). National Science Foundation, \$235,000, Jan. 1, 2012–Dec. 31, 2014.
- 2011–2012 Investigating Human Social Dynamics and Interaction in Ecuador: Studies of Obsidian Artifact Provenance. Pre-doctoral Fellowship for Eric Dyrdaahl, Pennsylvania State University. Smithsonian Institution Committee on Institutional Cooperation, \$22,500, Jan. 1, 2012–Sept. 30, 2012.
- 2011 Smithsonian Climate Research Symposium (with C. France, B. Turner, S. Wing, D. Whigham, M. McCormick, T. Rick). Smithsonian Institution Consortium for Understanding and Sustaining a Biodiverse Planet (SI redistribution of funding from the Bill & Melinda Gates Foundation), \$15,000.
- 2011–2012 Inventing American Photography (with M. Delaney, S. Perich, A. Shumard, O. Madden, E. Vicenzi, M. Wachowiak). Smithsonian Institution Office of the Under Secretary for History, Art, and Culture, \$20,000.
- 2008–2011 Building the concept of Europe. Majolica pottery as a common symbol of European countries in Modern times (with J.G. Iñáñez, and J. Buxeda i Garrigós). Marie Curie International Outgoing Fellowships for Career development, Proposal no. 221399, €26,282, Oct. 15, 2008–Oct 14, 2011.
- 2007–2011 Successful in obtaining internal SI funding totaling more than \$1.95M for the creation of a Stable Isotope Mass Spectrometry Facility (\$531,000), the acquisition of a Time-of-Flight ICP-MS (\$208,000), environmental SEM-EDS (\$286,000), Dispersive Raman (\$210,000), micro-EDXRF (\$141,000), 3 portable EDXRF instruments (\$105,000), Laser Ablation System (\$35,000), FTIR (\$45,000), portable Raman (\$20,000), FTIR Microscope (\$35,000), Computed Radiography (\$85,000), GC/MS (\$75,000), portable-FTIR (\$50,000) and miscellaneous lab equipment (ca. \$110,000).

- 2008–2010 Collaborative Research: Ceramic Geography and the Social Formations of the Smoky Hill Phase, East-Central Kansas (with Mary J. Adair). National Science Foundation, 0818089, \$112,049, Sept. 1, 2008–Feb. 28, 2011.
- 2008–2010 Investigating Prehistoric Human Migration and Social Interaction in Beringia: Studies of Obsidian Artifact Provenance. Smithsonian Institution Scholarly Studies Program, \$52,000, Oct. 1, 2008–Sep. 30, 2010.
- 2008–2009 Conservation Fellowship for Maria Fusco (with S. Mellor, NMAfA) Samuel H. Kress Foundation, \$30,000, Nov. 2008–Nov. 2009.
- 2005–2009 Support for the Archaeometry Laboratory at MURR. National Science Foundation-Archaeometry, 0504015, (with M.D. Glascock), \$339,635, Jun. 1, 2005–May 31, 2009.
- 2004–2005 Portable X-ray Fluorescence Spectrometry: A New Tool for Provenance-Based Research in Archaeology. National Science Foundation-Archaeometry, 0405042, (with M.D. Glascock, J.D. Robertson, and C.H. Descantes), \$21,550, Jun. 1, 2004–May 31, 2005.

CURRENT STUDENTS AND POST DOCS

- Carla Hadden, *Radiocarbon Dating of Marine Shell* (post-doc). Advisor
- Travis Jones, *Plains Village Chronology* (Ph.D. student, Anthropology, UGA). Co-Major Advisor. Travis is also a NSF GRFP Fellow.
- Katharine Napora, *Dendrochronology in the SE US* (Ph.D. candidate, Anthropology, UGA). Co-Major Advisor
- Mary Scales, *Cultural Landscape Management in the Chattahoochee National Forest* (M.A. student, Historic Preservation, UGA). Committee Member
- Isabelle Lulewicz, *Paleoenvironmental Reconstruction of Gulf Coast Florida using Sclerochronology* (Ph.D. student, Anthropology, UGA). Committee Member

PREVIOUS STUDENTS AND POST DOCS

- 2016 Marie Orange (Ph.D., Anthropology, Southern Cross University), Examiner.
- 2014–2015 Travis Jones (undergraduate research), *Geochemistry of volcanic rocks*. Current: PhD student, Department of Anthropology, University of Georgia.
- 2014–2015 Kathy Loftis (post-doc), *Compound specific radiocarbon dating of amino acids*. Current Position: Assistant Research Scientist, University of Georgia.
- 2013–2015 Alice Hunt (post-doc), *Development of portable-XRF for archaeological and environmental sciences*. Current Position: Assistant Research Scientist, University of Georgia.

- 2012 Eric Dyrdaahl (Ph.D. student, Penn State Univ.), *Obsidian Distribution Patterns throughout Ecuadorian Prehistory: A Geochemical Sourcing Study*. Current Position: Junior Fellow, Dumbarton Oaks.
- 2011 Aoife O'Halloran (post-doc) *Captive Nautili Mortality Rates*.
- 2010–2011 Catherine West (post-doc), *Paleoenvironmental Reconstruction in the Kodiak Archipelago, Alaska*. Current Position: Research Assistant Professor, Boston University.
- 2007–2011 Javier G. Iñáñez (post-doc), *Spanish Colonial Pottery in the Americas*. Current Position: Research Fellow, Universidad del Pais Vasco, Spain.
- 2008–2009 Christopher Wolff (post-doc), *Source Identification of Slate Artifacts from Labrador, Canada*. Current Position: Assistant Professor, University at Albany.
- 2008–2009 Maria Fusco (post-grad), *Technical Study of Glass Bead Deterioration on African Beaded Objects*. Current Position: Conservator, The George Washington University Museum.
- 2008 Colby Phillips (Ph.D. student, Univ. of Washington), *Source Identification of Obsidian from the Kurile Islands, Russia*. Lead Manager of eCommerce, AT&T.
- 2007 Natalia Slobodina (pre-doc, Univ. of Washington), *Alaska Obsidian Project*.

SELECTED MEDIA MENTIONS AND INTERVIEWS

- Old World metals traded on Alaska coast hundreds of years before contact with Europeans. Science Daily (June 8, 2016).
- Woodward County, Oklahoma: Why do so many here doubt climate change? CNN (November 24, 2015).
- A Find in Britain: Quran Fragments Perhaps as Old as Islam. New York Times (July 22, 2015).
- Gettysburg skull turns out to be that of a Southwest Native American 700 years old. Washington Post (February 5, 2015).
- Discovery of Alaska Spear Points Raises New Questions About Human Arrival In North America. SitNews (November 9, 2013).
- Not Quite Ancient. Archaeology Magazine (June 10, 2013).
- UGA Researchers Make A Startling Discovery. Georgia Public Broadcasting (March 27, 2013).
- GMOA project blends art and science. Online Athens (October 17, 2012).
- Florida Fossil Hunter Gets Credit For Big Find. NPR (July 25, 2011).

- Mysterious Jamestown Tablet an American Rosetta Stone? National Geographic Daily News (January 13, 2010).
- Obsidian 'Trail' Provides Clues To How Humans Settled, Interacted In Kuril Islands. Science Daily (July 10, 2009).
- Hill, Katie (2009). Following the Obsidian Trail. Mammoth Trumpet 24(2):3–6.
- Oldest Known Gold Artifacts in the Americas Discovered. Science Daily (Apr. 1, 2008). *This research also was featured in a “Saturday Night Live” skit (4/5/08) and a “Tonight Show” monologue by Jay Leno (4/7/08).*
- Elevated Tungsten In Trees Coincides With Nevada Leukemia Cluster. Science Daily (May 1, 2007).
- Tracking Down Possible Leukemia Culprit: Air In Nevada Town Has Elevated Levels Of Tungsten And Cobalt. Science Daily (Nov. 18, 2005).

SYMPOSIA, MEETINGS , & WORKSHOPS ORGANIZED (N = 17)

- 14C & Archaeology. 9th International Symposium. To be held in May 2019 in Athens, GA (with A.M. Hunt; A. Cherkinsky, and C. Hadden).
- Doing pXRF Right! An Intermediate Workshop for Archaeologists. To be held in March 2017 at Simon Fraser University. (with A.M. Hunt).
- pXRF workshop. October 26, 2016, Athens GA. (with T. Jones and A.M. Hunt).
- 73rd Annual Meeting of the Southeastern Archaeological Conference, October 26–29, 2016, Athens GA. Local Organizing Committee and Chair of Fundraising Committee.
- Doing pXRF Right! An Intermediate Workshop for Archaeologists. May 17–19, 2016, Athens GA. (with A.M. Hunt).
- Doing pXRF Right: An Intermediate Workshop for Archaeologists. August 11–13, 2015, Athens GA. (with A.M. Hunt).
- Portable XRF Obsidian Shootout. Round robin exercise sponsored by the International Association of Obsidian Studies and held at the 77th Annual Meeting of the Society for American Archaeology, Memphis, Tennessee, (with M.S. Shackley, and M.D. Glascock) 2012.
- Smithsonian Climate Research Symposium. Sponsored by the Consortium for Understanding and Sustaining a Biodiverse Planet, May 24–25, 2011. (with C. France, B. Turner, S. Wing, D. Whigham, M. McCormick, T. Rick).

- Archaeological Science 2010: Part I. Symposium organized for the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, (with C. Wolff and J.G. Iñáñez) 2010.
- Archaeological Science 2010: Part II. Symposium organized for the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, (with C. Wolff and J.G. Iñáñez) 2010.
- Fryxell Award: Michael D. Glascock. Symposium organized for the 74th Annual Meeting of the Society for American Archaeology, Atlanta, Georgia, 2009.
- Archaeological Chemistry: Analytical Methods and Archaeological Interpretation. Symposium organized for the 231st National Meeting of the American Chemical Society, Atlanta, March 26–30 (with M.D. Glascock and R.S. Popelka-Filcoff), 2006.
- Using INAA to Examine Pottery Production and Distribution in South America. Symposium organized for the 71st Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico (with P.R. Williams and K.J. Vaughn), 2006.
- Using Nuclear Chemistry to Answer Cultural Questions: Recent Applications of INAA in the American Southwest. Symposium organized for the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah (with D.M. Glowacki and T. Clark), 2005.
- Laser Ablation ICP-MS: A New Frontier in Chemical Characterization Studies of Archaeological Materials. Symposium organized for the 67th Annual Meeting of the Society for American Archaeology, Denver, 2002.
- Cultural Resource Management and Archaeometry: Entering the Mainstream. Symposium organized for the 66th Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana (with M.D. Glascock), 2001. Neutron Activation Analysis in the Plains. Symposium organized for the 57th Annual Plains Conference, Sioux Falls, South Dakota, 1999.

PUBLICATIONS

Summary: author of 4 books/edited volumes, ca. 150 professional publications; ca. 120 technical reports, and >150 abstracts/professional presentations since 2000. Google Scholar citations since 2003=1833; citations since 2011=1340; h-index=25, i10-index=50.

BOOKS AND EDITED VOLUMES

DESCANTES, CHRISTOPHE, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, MATTHEW T. BOULANGER (editors) (2008). *An Exploratory Study into the Chemical Characterization of Caribbean Ceramics*. *Journal of Caribbean Archaeology*, Special Publication No. 2.

SPEAKMAN, ROBERT J., AND MICHAEL D. GLASCOCK (editors) (2007). Special Issue: Fifty Years of Neutron Activation Analysis in Archaeology. *Archaeometry* 49(2) Entire Issue.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND RACHEL S. POPELKA-FILCOFF (editors) (2007). *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*. ACS Symposium Series 968, American Chemical Society, Washington, DC.

SPEAKMAN, ROBERT J., AND HECTOR NEFF (editors) (2005). *Laser Ablation-ICP-MS in Archaeological Research*. University of New Mexico Press, Albuquerque.

FORTHCOMING (9)

BARRETT, CHRISTOPHER. A., CHOUYYOK WILAIWAN, AND **ROBERT J. SPEAKMAN**, K.B. OLSEN, AND R. SHANE ADDLEMAN (n.d.) Rapid Extraction and Assay of Uranium from Environmental Surface Sampling Material.

BOLLWERK, ELIZABETH A., NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (n.d.) Made to Move? A Consideration of Pipe Circulation among Native Groups in the Middle Atlantic (A.D. 1000–1600). In *The Archaeology of Circulation, Exchange and Human Migration: Techniques, Cases, Evidence*, edited by J.V. Dudgeon and C. Friewald. Equinox Publishing, Ltd, Sheffield. 10.1558/equinox.22559

BRINK, JACK W., CHRISTIAN BARRON-ORTIZ, KATHY M. LOFTIS, AND **ROBERT J. SPEAKMAN** (n.d.). Pleistocene Horse and Possible Human Association in Central Alberta, 12,700 Years Ago. *Canadian Journal of Archaeology*.

GIRALDO TENARIO, HERNANDO J., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND ALEJANDRA GUDIÑO (n.d.). Pottery Production and Consumption in the Andean-Amazonian Frontier in Southwestern Colombia (2500–500 BP). In *Ceramics of the Indigenous Cultures of South America*, edited by M.D. Glascock, H. Neff, and K.J. Vaughn. University of New Mexico Press. Submitted.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND ERIC DYRDAHL (n.d.). Chemical Characterization of the San Lorenzo Obsidian Sample. Submitted for inclusion in book on San Lorenzo/Malpica, by Ken Hirth (Submitted June 2016).

HOARD, ROBERT J., BYRON M. STROM, E. MALCOLM STROM, AND **ROBERT J. SPEAKMAN** (n.d.). A Prehistoric Tool Used for Dentate Stamping on Pottery. *The Kansas Anthropologist*. In Press.

TURNERY, MICHAEL W., ROBIN WOYWITKA, TODD J. KRISTENSEN, JOHN W. IVES, BRIAN TSANG, MURRAY GINGRAS, PATRICK RENNIE, ELIZABETH ROBERTSON, TRAVIS JONES, AND **ROBERT J. SPEAKMAN** (n.d.). Beaver River Sandstone: A Silicified Toolstone from

Northeast Alberta, Canada. *The Archaeological Survey of Alberta Occasional Paper Series*. In Press.

WILLIAMS, PATRICK RYAN, DONNA NASH, ANITA COOK, WILLIAM ISBELL, AND **ROBERT J. SPEAKMAN** (n.d.). Wari Ceramic Production in the Heartland and Provinces. In *Ceramics of the Indigenous Cultures of South America*, edited by M.D. Glascock, H. Neff, and K.J. Vaughn. University of New Mexico Press.

WILLIAMS, VERONICA I., TERENCE N. D'ALTROY, HECTOR NEFF, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (n.d.). Prestige Ceramics in Inka Qollasuyu: Production and Distribution of Imperial and Regional Ceramics in the Southern Andes. In *Ceramics of the Indigenous Cultures of South America*, edited by M.D. Glascock, H. Neff, and K.J. Vaughn. University of New Mexico Press.

2016 (5)

COOPER, H. KORY, OWEN K. MASON, VICTOR MAIR, JOHN F. HOFFECKER, AND **ROBERT J. SPEAKMAN** (2016). Evidence of Eurasian Metal Alloys on the Alaskan Coast in Prehistory. *Journal of Archaeological Science* 74:176–183.

MASUCCI, MARIA, HECTOR NEFF, MICHAEL GLASCOCK AND **ROBERT J. SPEAKMAN** (2016). The Organization of Ceramic Production and the Origins of Complexity in the Late Prehispanic Coastal Societies of Ecuador, In *Integrative Approaches in Ceramic Petrography*, edited by M. Ownby, I. Druc and M. Masucci. University of Utah Press. ISBN 9781607815068

IÑAÑEZ, JAVIER G., JEREMY J. BELLUCCI, JUAN GUILLERMO MARTÍN, RICHARD ASH; WILLIAM McDONOUGH, AND **ROBERT J. SPEAKMAN** (2016). Pb Supply in Panamanian Colonial Majolica: An Archaeological Puzzle Solved by LA-MC-ICP-MS. In *Recent Advances in Laser Ablation ICP-MS for Archaeology*, edited by Laure Dussubieux, Mark Golitko, and Bernard Gratuze, pp. 343–358. Natural Science in Archaeology Series. Springer-Verlag, Berlin Heidelberg.

SPEAKMAN, JEFF, MATTHEW COLVIN, JUSTIN CRAMB, ALICE HUNT, KC JONES, TRAVIS JONES, ISABELLE LULEWICZ, KATHARINE NAPORA, KATIE REINBERGER, BRANDON RITCHISON, VICTOR THOMPSON (2016). *UGA Junior Archaeologist: An Explorer's Guide to Georgia's Past*. University of Georgia, Athens.

<https://www.dropbox.com/s/3r1rwk8sryrc0a2/Arch%20Workbook%20layout-PRINT.pdf?dl=0>

WILLIAMS, VERÓNICA I., CALOGERO M. SANTORO, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, ÁLVARO LUIS ROMERO GUEVARA, DANIELA VALENZUELA, VIVIEN G STANDEN, TERENCE N. D'ALTROY (2016). Instrumental Neutron Activation Analysis of Inka and Local Pottery from Northern Chile's Atacama Desert and Late Prehistoric Interregional Interaction in the Southern Andes. *Journal of Archaeological Science: Reports* 9:481–492.

2015 (4)

HEGINBOTHAM, ARLEN, JANE BASSETT, DAVID BOURGARIT, CHRIS EVELEIGH, JAMES FRANTZ, LISHA GLINSMAN, DUNCAN HOOK, DYLAN SMITH, **ROBERT J. SPEAKMAN**, AARON SHUGAR, AND ROBERT VAN LANGH (2015). The Copper CHARM Set: A New Set of Certified Reference Materials for the Standardization of Quantitative X-ray Fluorescence Analysis of Heritage Copper Alloys. *Archaeometry* 57:856–868.

HUNT, ALICE M.W., AND **ROBERT J. SPEAKMAN** (2015). Portable XRF Analysis of Archaeological Sediments and Ceramics. *Journal of Archaeological Science* 53:626–638.

HUNT, ALICE M.W., DOUGLAS K. DVORACEK, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN** (2015). Major, Minor and Trace Element Mass Fractions Determined using ED-XRF, WD-XRF and INAA for Three Synthetic Mullite Reference Materials (NCS HC 14807; NCS HC 14808; and NCS HC 14809) and Five Stream Sediment Reference Materials (GBW 07302; GBW 07310; GBW 07311; GBW 07312; and GBW 07405). *Journal of Radioanalytical and Nuclear Chemistry* 303:1005–1007.

HUNT, ALICE M.W., DOUGLAS K. DVORACEK, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN** (2015). Major, Minor and Trace Element Mass Fractions Determined using ED-XRF, WD-XRF and INAA for Three Fireclay Reference Materials: č.137; č.138; and č.139. *Journal of Radioanalytical and Nuclear Chemistry* 303:977–978.

2014 (7)

FRANCE, CHRISTINE A.M., PAUL R. SHEPPARD, NADIA JIMENEZ CANO, NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (2014). Stable Isotopic and Chemical Indicators of Volcanic Eruptions in Tree Rings from Parícutin, Mexico. *Open Journal of Archaeometry* 2:37–42.

HUNT, ALICE M.W., DOUGLAS K. DVORACEK, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN** (2014). Major, Minor and Trace Element Mass Fractions Determined using ED-XRF, WD-XRF and INAA for Five Certified Clay Reference Materials: NCS DC 60102–60105; NCS DC 61101 (GBW 03101A, 03102A, 03103, and 03115). *Journal of Radioanalytical and Nuclear Chemistry* 302(1):505–512.

LITTLE, NICOLE C., VICTORIA FLOREY, IRMA MOLINA, DOUGLAS W. OWSLEY, AND **ROBERT J. SPEAKMAN** (2014). Measuring Heavy Metal Content in Bone using Portable XRF. *Open Journal of Archaeometry* 2:19–21.

MOINI, MEHDI, AOIFE O’HALLORAN, ALAN M. PETERS, CHRISTINE A.M. FRANCE, EDWARD P. VICENZI, TAMSEN G. DEWITT, ESTHER LANGAN, TIM WALSH, AND **ROBERT J. SPEAKMAN** (2014). Understanding Irregular Shell Formation of *Nautilus* in Aquaria: Chemical Composition and Structural Analysis. *Zoo Biology* 33:285–294.

ROLL, TOM, MICHAEL NEELEY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2014). Characterization of Montana Cherts by LA-ICP-MS. In *The Camp Baker Quarry (24ME467): 2001*, by Tom E. Roll. Bureau of Land Management Cultural Resource Series no. 6, Montana State Office, Billings.

STANFORD, DENNIS, DARRIN LOWERY, MARGARET JODRY, BRUCE A. BRADLEY, MARVIN KAY, THOMAS W. STAFFORD, AND **ROBERT J. SPEAKMAN** (2014). New Evidence for Paleolithic Occupation of the Eastern North American Outer Continental Shelf at the Last Glacial Maximum. In *Prehistoric Archaeology on the Continental Shelf*, edited by A. Evans, J. Flatman, and N. Flemming, pp. 73–94. Springer, New York.

WOLFF, CHRISTOPHER, WILLIAM FITZHUGH, **ROBERT J. SPEAKMAN** (2014). The Utility of pXRF in the Assessment of Slate Procurement and Exchange by the Maritime Archaic of Newfoundland and Labrador. *Open Journal of Archaeometry* 2:114–117.

2013 (7)

DYRDAHL, ERIC, **ROBERT J. SPEAKMAN** (2013). Investigating Obsidian Procurement at Integration Period (ca. AD 700–1500) Tola Sites in Highland Northern Ecuador via Portable X-Ray Fluorescence (pXRF). In *Archaeological Chemistry VIII*, pp. 211–232, edited by Ruth Ann Armitage and James H. Burton. ACS Publication Series 1147. American Chemical Society, Washington, DC.

HARRY, KAREN G., **ROBERT J. SPEAKMAN**, ELIZABETH MIKSA, SERGIO F. CASTRO-REINO, CHRISTOPHE DESCANTES, PAUL R. FISH, SUZANNE K. FISH, AND MICHAEL D. GLASCOCK (2013). Production and Exchange of Plain Ware Ceramics in the Marana Community. In *Power and Economy in Early Classic Period Hohokam Society: An Archaeological Perspective from the Marana Platform Mound Site*, edited by James Bayman, Paul R. Fish, and Suzanne Fish, pp 101–116. Arizona State Museum Archaeological Series 207, The University of Arizona, Tucson.

GOEBEL, TED., HEATHER L. SMITH, LYNDSEY DIPIETRO, MICHAEL R. WATERS, BRYAN HOCKETT, KELLY E. GRAF, ROBERT GAL, SERGEI B. SLOBODIN, **ROBERT J. SPEAKMAN**, STEVEN G. DRIESE AND DAVID RHODE (2013). Serpentine Hot Springs, Alaska: Results of Excavations and Implications for the Age and Significance of Northern Fluted Points. *Journal of Archaeological Science* 40:4222–4233.

IÑÁÑEZ, JAVIER G., MARISOL MADRID I FERNANDEZ, JUDIT MOLERA I MARIMON, **ROBERT J. SPEAKMAN**, AND TRINITAT PRADELL, (2013). Potters and Pigments: Preliminary Technological Assessment of Pigment Recipes of American Majolica by Synchrotron Radiation Micro-X-Ray Diffraction (SR- μ XRD). *Journal of Archaeological Science* 40:1408–1413.

KOSAKOWSKY, LAURA, JON C. LOHSE, NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (2013). Pots and Politics: Classic Maya Ceramic Production, Exchange, and Political Ecology in Northwestern Belize. In *Classic Maya Political Ecology: Resource Management, Class*

Histories, and Political Change in Northwestern Belize, edited by Jon C. Lohse, pp. 127–148. Cotsen Institute of Archaeology Press, University of California, Los Angeles.

SPEAKMAN, ROBERT J., (2013). *Mimbres Pottery Production and Distribution*. Ph.D. dissertation, Departament de Prehistòria, Història Antiga i Arqueologia, Universitat de Barcelona.

SPEAKMAN, ROBERT J., AND M. STEVEN SHACKLEY (2013). Silo Science and Portable XRF in Archaeology: A Response to Frahm. *Journal of Archaeological Science* 40:1435–1443.

2012 (4)

CENTENO, SILVIA A., VERONICA WILLIAMS, NICOLE C. LITTLE, **ROBERT J. SPEAKMAN** (2012) Characterization of Surface Decorations in Prehispanic Archaeological Ceramics by Raman Spectroscopy, FTIR, XRD, and XRF. *Vibrational Spectroscopy* 58:119–124.

HOULETTE, CHRIS, JEFF RASIC, AND **JEFF SPEAKMAN** (2012). Prehistoric Obsidian Procurement and Transport in Gates of the Arctic National Park and Preserve. *Alaska Park Science* 10(1):12–15.

MIRELES, FERNANDO, J. IGNACIO DAVILA, JOSE LUIS PINEDO, E. REYES, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2012) Assessing Urban Soil Pollution in the Cities of Zacatecas and Guadalupe, Mexico by Instrumental Neutron Activation Analysis. *Microchemical Journal* 103(1):158–164.

SHEPPARD, PAUL R., DENNIS R. HELSEL, **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2012). Additional Analysis of Dendrochemical Data of Fallon. *Chemico-Biological Interactions* 196:96–101.

2011 (8)

ANTOINE, BETH, **ROBERT J. SPEAKMAN**, MARION F. MECKLENBURG, AND MELVIN J. WACHOWIAK (2011). The Conservation of Letterpress Copying Books: A Study of the Baird Collection. *The Book and Paper Group Annual* 30:9–27. American Institute for Conservation of Historic and Artistic Works, Washington, D.C.

FARRIS, DAVID W, CARLOS JARAMILLO, GERMAN BAYONA, SERGIO A. RESTREPO, CAMILO MONTES, AGUSTIN CARDONA, ANDRES MORA, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, PETER REINERS, AND VICTOR VALENCIA (2011). Fracturing of the Panamanian Isthmus during Initial Collision with South America. *Geology* 39(11): 1007–1010.

HEGINBOTHAM, ARLEN, ANIKO BEZUR, MICHEL BOUCHARD, JEFFREY DAVIS, KATHERINE EREMIN, JAMES H. FRANTZ, LISHA GLINSMAN, LEE-ANN HAYEK, DUNCAN HOOK, VICKY KANTARELOU, ANDREAS KARYDAS, LYNN LEE, JENNIFER MASS, CATHERINE MATSEN, BLYTHE MCCARTHY, MOLLY MCGATH, AARON SHUGAR, JANE SIROIS, DYLAN SMITH, AND **ROBERT J. SPEAKMAN** (2011). A Round-Robin Study to Evaluate the Inter-Laboratory

Reproducibility of Quantitative X-ray Fluorescence Spectroscopy on Historic Copper Alloys. In *METAL 2010, Proceedings of the Interim Meeting of the ICOM-CC Metal Working Group, Charleston, South Carolina 11–15 October 2010*, edited by P. Mardikian, C. Chemello, C. Watters, and P. Hull, pp. 244–255. Clemson University, South Carolina.

IÑÁÑEZ, JAVIER G., AND **ROBERT J. SPEAKMAN** (2011). Technological Features of Colonial Glazed Pottery from el Convento de Santo Domingo (Antigua, Guatemala). Similarities and Differences between Colonial and Spanish Pottery. In *Proceedings of the 37th International Symposium on Archaeometry, 12th – 16th May 2008, Siena, Italy*, edited by Isabella Turbanti-Memmi, pp. 77–82. Springer-Verlag Berlin Heidelberg.

MIRELES, FERNANDO, JOSE LUIS PINEDO, J. IGNACIO DAVILA, JESUS E. OLIVA, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2011) Assessing Sediment Pollution from the Julian Adame-Alatorre Dam by Instrumental Neutron Activation Analysis. *Microchemical Journal* 99(1):20–25.

PURDY, BARBARA A., KEVIN S. JONES, JOHN J. MECHOLSKY, GERALD BOURNE, RICHARD C. HULBERT, BRUCE J. MACFADDEN, KRISTA L. CHURCH, MICHAEL W. WARREN, THOMAS F. JORSTAD, DENNIS J. STANFORD, MELVIN J. WACHOWIAK, AND **ROBERT J. SPEAKMAN** (2011). Earliest Art in the Americas: Incised Image of a Proboscidean on a Mineralized Extinct Animal Bone from Vero Beach, Florida. *Journal of Archaeological Science* 38:2908–2913.

REUTHER, JOSHUA D., NATALIA S. SLOBODINA, JEFFREY T. RASIC, JOHN P. COOK, AND **ROBERT J. SPEAKMAN** (2011). Gaining Momentum—The Status of Obsidian Source Studies in Alaska: Implications for Understanding Regional Prehistory. In *From the Yenisei to the Yukon Interpreting Lithic Assemblage Variability in Late Pleistocene/Early Holocene Beringia*, edited by Ted Goebel and Ian Buvit, pp. 270–286, Texas A&M University Press, College Station.

SPEAKMAN, ROBERT J., NICOLE C. LITTLE, DARRELL CREEL, MYLES R. MILLER, AND JAVIER G. IÑÁÑEZ (2011). Sourcing Ceramics with Portable XRF Spectrometers? A Comparison with INAA using Mimbres Pottery from the American Southwest. *Journal of Archaeological Science* 38(12):3483–3496.

2010 (7)

CRAIG, NATHAN, **ROBERT J. SPEAKMAN**, RACHEL POPELKA-FILCOFF, MARK ALDENDERFER, LUIS FLORES BLANCO, MARGARET BROWN VEGA, MICHAEL D. GLASCOCK, AND CHARLES STANISH (2010). Macusani Obsidian from Southern Peru: A Characterization of its Elemental Composition with a Demonstration of its Ancient use. *Journal of Archaeological Science* 37(3):569–576.

FUSCO, MARIA, AND **ROBERT J. SPEAKMAN** (2010). The Application of X-ray Fluorescence (XRF) Spectrometry in the Characterization of Glass Degradation in Beaded African Art. *Bead Forum* 52:1–12.

GREBENNIKOV, ANDREI V., VLADIMIR K. POPOV, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, YAROSLAV V. KUZMIN, AND ANDREI V. PTASHINSKY (2010). Obsidian Provenance Studies on Kamchatka Peninsula (Far Eastern Russia): 2003–2007 Results, *Crossing the Straits: Prehistoric Obsidian Source Exploitation in the North Pacific Rim*, edited by Y.V. Kuzmin and M.D. Glascock pp. 89–120. British Archaeological Reports S2152, Archaeopress, Oxford.

GRISSOM, CAROL, CLAIRE GERVAIS, NICOLE C. LITTLE, GENEVIEVE BIENIOSEK, AND **ROBERT J. SPEAKMAN** (2010). Red “Staining” on Marble: Chemical or Biological Origin. *APT Bulletin: Journal of Preservation Technology* 41(2–3):11–20. **Recipient of the Association for Preservation Technology’s 2010 Oliver Torrey Fuller Award for the article that best demonstrates technical excellence and innovation.**

IÑAÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, JAUME BUXEDA I GARRIGÓS, AND MICHAEL D. GLASCOCK (2010). Chemical Characterization of Tin-Lead Glazed Ceramics from Aragon (Spain) by Neutron Activation Analysis. *Radiochimica Acta* 98(8):525–532.

IÑAÑEZ, JAVIER G., JEREMY J. BELLUCCI, ENRIQUE RODRIGUEZ-ALEGRIA, RICHARD ASH, WILLIAM McDONOUGH, AND **ROBERT J. SPEAKMAN** (2010). Romita Ware Revisited: A Reassessment of the Provenance of Colonial Mexico Ceramics by LA-MC-ICP-MS and INAA. *Journal of Archaeological Science* 37(11):2698–2704.

MIRELES, FERNANDO, JOSE LUIS PINEDO, J. IGNACIO DAVILA, JESUS E. OLIVA, **ROBERT J. SPEAKMAN** AND MICHAEL D. GLASCOCK (2010) Major, Trace and Rare Earth Elements in Sediments of the Julian Adame-Alatorre Dam by Instrumental Neutron Activation Analysis. In *Proceedings of the 17th Pacific Basin Nuclear Conference* (CD), Cancun, Mexico.

2009 (12)

BENCO, NANCY L., SAID ENNAHID, M. JAMES BLACKMAN, HECTOR NEFF, MICHAEL GLASCOCK, AND **ROBERT J. SPEAKMAN** (2009). Chemical Analyses of Pottery and Clays from the Medieval Islamic City of al-Basra and its Hinterland in Northern Morocco. In *Actas del VIII Congreso Interacional de Cerámica Medieval en el Mediterráneo*, edited by Juan Zozaya Stabel-Hansen, Manuel Retuerce Velasco, Miguel Ángel Hervás Herrera, and Antonio De Juan García, pp. 673–684. Asociación Española de Arqueología Medieval, Ciudad Real, Spain.

BROSTOFF, LYNN B., CATHERINE MAYNOR, AND **ROBERT J. SPEAKMAN** (2009) Preliminary Study of a Georgia O’Keeffe Pastel Drawing by XRF and μ XRD. *Powder Diffraction Journal* 24(2):116–123.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2009). Instrumental Neutron Activation Analysis of Ceramics from Five Archaeological Sites in Antigua, West Indies. *Bulletin of the Peabody Museum of Natural History* 50(1):147–155.

IÑAÑEZ, JAVIER G., JAUME BUXEDA I GARRIGÓS, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2009). Archaeometric Characterization of Renaissance Tin-Lead Glazed Pottery from Talavera de la Reina, Puente del Arzobispo and Seville (Spain). In *Proceedings Actes ISA 2006*, edited by J-F Moreau, R. Auger, J. Chabot, and A. Herzog, pp. 279–287. Cahiers d' Archéologie du CELAT, No. 25, Série Archéométrie No. 7, University of Laval, Quebec, Canada.

IÑAÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, JAUME BUXEDA I GARRIGÓS, AND MICHAEL D. GLASCOCK (2009). Chemical Characterization of Tin Lead Glazed Pottery from the Iberian Peninsula and the Canary Islands: First Steps toward a Better Understanding of Colonial Pottery in the Americas. *Archaeometry* 51(4):546–567. **Recipient of the University of Barcelona's 2009 Jose Manuel Blecua Award for the best scholarly paper derived from a PhD dissertation.**

LAZARRI, MARISA, L. PEREYRA-D., M.C. SCATTOLIN, LESLIE CECIL, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2009). Ancient Social Landscapes of Northwestern Argentina: Preliminary Results of an Integrated Approach to Obsidian and Ceramic Provenance. *Journal of Archaeological Science* 36(9):1955–1964.

LÓPEZ DEL RIO, HUGO, FERNANDO MIRELES-GARCÍA, ROMINA Y. MÉNDEZ-CARDONA, MIGUEL NICOLÁS-CARETTA, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2009). Characterization of Pottery from Cerro de Las Ventanas, Zacatecas, México. *Radiochimica Acta* 97(9):513–518.

LÓPEZ DEL RIO, HUGO, FERNANDO MIRELES-GARCÍA, ROMINA Y. MÉNDEZ-CARDONA, MIGUEL NICOLÁS-CARETTA, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2009). Primeros Análisis Cerámicos por Activación Neutrónica del Sitio de Las Ventanas, Juchipila, Zacatecas, México. *Espaciotiempo* 2(3):141–146.

PHILLIPS, S. COLBY, AND **ROBERT J. SPEAKMAN** (2009). Initial Source Evaluation of Archaeological Obsidian from the Kuril Islands of the Russian Far East by Portable X-ray Fluorescence. *Journal of Archaeological Science* 36(6):1256–1263.

POHL, CHRISTIE M., GREG HODGINS, **ROBERT J. SPEAKMAN**, AND HARRIET F. BEAUBIEN, (2009). The Effect of Cyclododecane on the Carbon-14 Dating of Archaeological Materials. *Journal of the American Institute for Conservation* 48:223–233.

SLOBODINA, NATALIA S., JOSHUA D. REUTHER, JEFFREY T. RASIC, AND JOHN P. COOK, **ROBERT J. SPEAKMAN** (2009) Obsidian Procurement and Use at the Dry Creek Site (HEA-005), Interior Alaska. *Current Research in the Pleistocene* 26:115–117.

TSANG, JIA-SUN, ODILE MADDEN, MARY COUGHLIN, ANTHONY MAIORANA, JUDY WATSON, NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (2009). Degradation of 'Lumarith' Cellulose Acetate: Examination and Chemical Analysis of a Salesman's Sample Kit. *Studies in Conservation* 54(2):90–105.

2008 (20)

AHLMAN, TODD M., GERALD F. SCHROEDL, ASHLEY H. MCKEOWN, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2008). Ceramic Production and Exchange among Enslaved Africans on St. Kitts, West Indies. In *An Exploratory Study into the Chemical Characterization of Caribbean Ceramics*, edited by C.H. Descantes, R.J. Speakman and Glascock, and M.T. Boulanger, pp. 109–122. *Journal of Caribbean Archaeology*, Special Publication No. 2.

ALDENDERFER, MARK, NATHAN M. CRAIG, **ROBERT J. SPEAKMAN**, AND RACHEL POPELKA-FILCOFF (2008). Four-Thousand-Year-Old Gold Artifacts from the Lake Titicaca Basin, Southern Peru, *Proceedings of the National Academy of Sciences*, 105(13):5002–5005 and supporting documentation.

BROSTOFF, LYNN B., CATHERINE MAYNOR, AND **ROBERT J. SPEAKMAN** (2009). Preliminary Study of a Georgia O’Keeffe Pastel Drawing by XRF and μ XRD. *Advances in X-ray Analysis* 52. International Centre for Diffraction Data, Newtown Square, Pennsylvania. CD-ROM.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2008). Compositional Studies of Caribbean Ceramics: An Introduction to Instrumental Neutron Activation Analysis. In *An Exploratory Study into the Chemical Characterization of Caribbean Ceramics*, edited by C.H. Descantes, R.J. Speakman and Glascock, and M.T. Boulanger, pp. 1–14. *Journal of Caribbean Archaeology*, Special Publication No. 2.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND MATTHEW T. BOULANGER (2008). An Exploratory Study into the Compositional Study of Caribbean Ceramics: An Introduction to a Special Volume of the *Journal of Caribbean Archaeology* in Memory of James B. Peterson. In *An Exploratory Study into the Chemical Characterization of Caribbean Ceramics*, edited by C.H. Descantes, R.J. Speakman and Glascock, and M.T. Boulanger, pp. i–ii. *Journal of Caribbean Archaeology*, Special Publication No. 2.

GHAZAL, ROYAL O., NICHOLAS KOUCHOUKOS, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND CHRISTOPHE H. DESCANTES (2008). Production Zone Sourcing and Intra-Regional Exchange of Ceramics in the Fourth Millennium BC Susiana Plain: A Case Study. In *Chogha Mish II: The Development of a Prehistoric Regional Center in Lowland Susiana: Final Report on the Last 6 Seasons of Excavations*, edited by Abbas Alizadeh, pp. 93–151 & 385–395. Oriental Institute Publications Vol. 130. The Oriental Institute of the University of Chicago, Illinois.

GLASCOCK MICHAEL D., AND **ROBERT J. SPEAKMAN** (2008). Instrumental Neutron Activation Analysis of Chert from the Varga Site (41ED28) in Southwest Texas. In *The Varga Site: A Multicomponent, Stratified Campsite in the Canyonlands of Edwards County, Texas*, edited by J. M. Quigg, J. D. Owens, P. M. Matchen, R. A. Ricklis, G. D. Smith, C.

D. Frederick, and M. C. Cody, pp. 885–950. Texas Department of Transportation, Environmental Affairs Division, Archeological Studies Program Report No. 110.

GOEBEL, TED, **ROBERT J. SPEAKMAN**, AND JOSHUA D. REUTHER (2008). Results of Geochemical Analysis of Obsidian Artifacts from the Walker Road Site, Alaska. *Current Research in the Pleistocene* 25:88–90.

IÑAÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, JAUME BUXEDA I GARRIGÓS, AND MICHAEL D. GLASCOCK (2008). Chemical Characterization of Majolica from 14th–18th Century Production Centers on the Iberian Peninsula: A Preliminary Neutron Activation Study. *Journal of Archaeological Science* 35(3):425–440.

IÑAÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, JAUME BUXEDA I GARRIGÓS, MICHAEL D. GLASCOCK, AND ELENA SOSA SUÁREZ (2008). Las Cerámicas Vidriadas Decoradas del Convento de San Francisco de Las Palmas de Gran Canaria. Una Aproximación a su Estudio Arqueométrico, *El Museo Canario* 63:9–46.

KUZMIN, YAROSLAV V., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, VLADIMIR K. POPOV, ANDREI V. GREBENNIKOV, MARGARITA A. DIKOVA, AND ANDREI V. PTASHINSKY (2008). Obsidian use at the Ushki Lake complex, Kamchatka Peninsula (Northeastern Siberia): Implications for Terminal Pleistocene and Early Holocene Human Migrations in Beringia. *Journal of Archaeological Science* 35(8):2179–2187.

LINDSAY, IAN, LEAH MINC, CHRISTOPHE DESCANTES, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK (2008). Exchange Patterns, Boundary Formation, and Sociopolitical Change in Late Bronze Age Southern Caucasia: Preliminary Results from a Pottery Provenance Study in Northwestern Armenia. *Journal of Archaeological Science* 35(6):1673–1682.

PORTER, BENJAMIN W., AND **ROBERT J. SPEAKMAN** (2008). Reading Ancient Moabite Pigments with Laser Ablation ICP-MS: A New Archaeometric Technique for Near Eastern Archaeology. *Near Eastern Archaeology* 71(4):238–242.

SHEPPARD, PAUL R., MICHAEL H. ORT, KIRK C. ANDERSON, MARK D. ELSON, LORENZO VASQUEZ-SELEM, ANJELIKA W. CLEMENS, NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (2008). Dendrochronological Responses to the 1943–1952 Eruption of Parícutin, Michoacán, Mexico. *Tree Ring Research* 64(2):97–108.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2008). Tungsten and Cobalt: Sheppard et al. Respond. *Environmental Health Perspectives* 116(5):A97.

SPEAKMAN, ROBERT J., AND MICHAEL D. GLASCOCK (2008). Instrumental Neutron Activation Analysis of Pottery from the Lorenzo Missions (41RE1), San Juan Mission (41BX5), and Varga Site (41ED28) in Real, Bexar and Edwards counties, Texas. In *The Varga Site: A Multicomponent, Stratified Campsite in the Canyonlands of Edwards County, Texas*, edited by J. M. Quigg, J. D. Owens, P. M. Matchen, R. A. Ricklis, G. D. Smith, C.

D. Frederick, and M. C. Cody, pp. 1065–1084. Texas Department of Transportation, Environmental Affairs Division, Archeological Studies Program Report No. 110.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND VINCAS P. STEPONAITIS (2008). Geochemistry. In *Woodland Pottery and Sourcing in the Carolina Slate Belt*, edited by Joe M. Herbet and Theresa. E. McReynolds, pp. 56–72. Research Report No. 29, Research Laboratories of Archaeology, The University of North Carolina at Chapel Hill.

STAHL, ANN M., MARIA DAS DORES CRUZ, HECTOR NEFF, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, BRETTON GILES AND LEITH SMITH (2008). Ceramic Production, Consumption and Exchange in the Banda Area, Ghana: Insights from Compositional Analyses. *Journal of Anthropological Archaeology* 26(3):363–381.

STEVENSON, CHRISTOPHER M., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, AND MICHELLE MCCARTNEY (2008). Expanding the Geochemical Database for Virginia Jasper Sources. *Journal of Middle Atlantic Archaeology* 24:57–78.

TYKOT, ROBERT H., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, AND E. ATZENI (2008). Obsidian Subsources utilized at Sites in Southern Sardinia, (Italy). In *Material Issues in Art and Archaeology VIII*, edited by P. Vandiver, F. Casadio, B. McCarthy, R. H. Tykot, J. L. R. Sil pp. 175–183, Materials Research Society Symposium Proceedings 1047, Warrendale, PA.

2007 (25)

ARNOLD, DEAN E., HECTOR NEFF, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2007). Sourcing the Palygorskite Used in Maya Blue: A Pilot Study Comparing the Results of INAA and LA-ICP-MS. *Latin American Antiquity* 18(1):44–58.

CECIL, LESLIE G., MATTHEW D. MORIARTY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2007). Feasibility of Field-Portable XRF to Identify Obsidian Sources in Central Petén, Guatemala. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 506–521. ACS Publication Series 968. American Chemical Society, Washington, DC.

CRAIG, NATHAN, **ROBERT J. SPEAKMAN**, RACHEL S. POPELKA-FILCOFF, MICHAEL D. GLASCOCK, J. DAVID ROBERTSON, M. STEVEN SHACKLEY, MARK S. ALDENDERFER (2007). Comparison of XRF and PXRF for Analysis of Archaeological Obsidian from Southern Peru. *Journal of Archaeological Science* 34(12):2012–2024.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND DAVID V. HILL (2007). Compositional Analyses of Ceramics from the Indian Creek Site, Antigua: Preliminary Results. In *Proceedings of the 21st Congress of the International Association of Caribbean Archaeologists*, edited by B. Reid, H. P. Roget, and A. Curet, pp. 355–361. University of the West Indies, St. Augustine, Trinidad.

Dussubieux, Laure, Mark Golitko, Patrick Ryan Williams, and **Robert J. Speakman** (2007). LA-ICP-MS Analysis Applied to the Characterization of Peruvian Wari Ceramics. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 349–363. ACS Publication Series 968. American Chemical Society, Washington, DC.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND HECTOR NEFF (2007). Archaeometry at the University of Missouri Research Reactor and the Provenance of Obsidian Artifacts in Eastern North America. *Archaeometry* 49(2):343–357.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND RICHARD L. BURGER (2007). Chemical Characterization of Archaeologically Important Obsidian Sources in Peru. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff pp. 522–544. ACS Publication Series 968. American Chemical Society, Washington, DC.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND RACHEL S. POPELKA-FILCOFF (2007). Preface. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. IX. ACS Publication Series 968. American Chemical Society, Washington, DC.

HILL, DAVID V., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND HECTOR NEFF (2007). Technological Change in Mesopotamian Ceramic Glaze Technologies. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff pp. 423–446. ACS Publication Series 968. American Chemical Society, Washington, DC.

IÑAÑEZ, JAVIER G., JAUME BUXEDA I GARRIGÓS, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2007). Characterization of Majolica Pottery from the Earliest Spanish Sites in the Canary Islands (15th–16th centuries): A Study of Early Majolica Trade with the Americas. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 376–398. ACS Publication Series 968. American Chemical Society, Washington, DC.

LAGUENS ANDRES, MARTIN GIESSO, MIRTA BONNIN, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, NÉSTOR KRISKAUTZKY, AND BÁRBARA MANASSE (2007). Análisis de Procedencia de Cerámica Ambato Gris-Negra Grabada en los Valles Orientales de Catamarca y Tucumán, Argentina. [Provenance Analysis of Gray-Black Incised Ceramics from the Eastern Valleys of Ambato and Tucuman, Argentina]. In *Cerámica Arqueológicas, Perspectivas Arqueométricas para su Análisis e Interpretación*, edited by M.B. Cremonte and N. Ratto, pp. 147–167. Universidad Nacional de Jujuy, San Salvador de Jujuy, Argentina.

LITTLE, NICOLE C., TIMOTHY J. SCARLETT, **ROBERT J. SPEAKMAN**, CHRIS MERRITT, AND MICHAEL D. GLASCOCK (2007). Analysis of Historic Latter-Day Saint Pottery Glazes by LA-ICP-MS. In *Archaeological Chemistry: Analytical Methods and Archaeological*

Interpretation, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 447–459. ACS Publication Series 968. American Chemical Society, Washington, DC.

POPELKA-FILCOFF, RACHEL, NATHAN CRAIG, MICHAEL D. GLASCOCK, J. DAVID ROBERTSON, MARK S. ALDENDERFER, AND **ROBERT J. SPEAKMAN** (2007). Instrumental Neutron Activation Analysis of Ochre Artifacts from Jiskairumoko, Peru. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 480–505. ACS Publication Series 968. American Chemical Society, Washington, DC.

POPOV VLADIMIR K., ANDREI V. GREBENNIKOV, A. B. PEREPELOV, YAROSLAV V. KUZMIN, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2007). Geochemical Typing of Acidic Volcanic Glasses, Kamchatka. In *Problems of Geochemistry of Endogenic Processes and the Environment*, pp. 201–206. Irkutsk, Russia.

ROPER, DONNA K., ROBERT J. HOARD, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND ANNE COBRY DICOSOLA (2007). Source Analysis of Central Plains Tradition Pottery using Neutron Activation Analysis: Feasibility and First Results. *Plains Anthropologist* 52(203):325–335.

SCARLETT, TIMOTHY J., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND GARRETT TIMMERMAN (2007). Pottery in the Mormon Economy: An Historical and Archaeometric Study. *Historical Archaeology* 41(4):72–97.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, CALVIN FARRIS, AND MARK L. WITTEN (2007). Multiple Monitoring techniques for Assessing Spatial Patterns of Airborne Metals. *Environmental Science and Technology* 41(2):406–410.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2007). Using Lichen Chemistry to Assess Tungsten and Cobalt in Fallon, Nevada. *Environmental Monitoring and Assessment* 130:511–518.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2007). Temporal Variability of Tungsten and Cobalt in Fallon, Nevada. *Environmental Health Perspectives* 115:715–719.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, MICHAEL D. GLASCOCK, CALVIN FARRIS, AND MARK L. WITTEN (2007). Spatial Patterns of Tungsten and Cobalt in Surface Dust of Fallon, Nevada. *Environmental Geochemistry and Health* 29:405–412.

SPEAKMAN, ROBERT J., CHARLES E. HOLMES, AND MICHAEL D. GLASCOCK (2007). Source Determination of Obsidian Artifacts from Swan Point (XBD-156), Alaska, *Current Research in the Pleistocene* 24:143–145.

SPEAKMAN, ROBERT J., AND MICHAEL D. GLASCOCK (2007). Acknowledging Fifty Years of Neutron Activation Analysis in Archaeology. *Archaeometry* 49(2):179–183.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, ROBERT H. TYKOT, CHRISTOPHE H. DESCANTES, JENNIFER J. THATCHER, CRAIG E. SKINNER, AND KYRA M. LIENHOP (2007). Selected Applications of Laser Ablation ICP-MS to Archaeological Research. In *Archaeological Chemistry: Analytical Methods and Archaeological Interpretation*, edited by M.D. Glascock, R.J. Speakman, and R.S. Popelka-Filcoff, pp. 275–296. ACS Publication Series 968. American Chemical Society, Washington, DC.

STARK, BARBARA L., **ROBERT J. SPEAKMAN,** AND MICHAEL D. GLASCOCK (2007). Regional and Regional-Scale Compositional Variability in Pottery from South-Central Veracruz, Mexico. *Latin American Antiquity* 18(1):59–84.

STEVENSON, CHRISTOPHER M., DEREK WHEELER, STEVEN W. NOVAK, **ROBERT J. SPEAKMAN,** AND MICHAEL D. GLASCOCK (2007). A New Dating Method for High Calcium Archaeological Glasses Based Upon Surface Water Diffusion: Preliminary Calibrations and Procedures. *Archaeometry* 49(1):153–177.

2006 (13)

BOULANGER, MATTHEW T., **ROBERT J. SPEAKMAN,** MICHAEL D. GLASCOCK (2006). Characterization of New England Chert Sources by Neutron Activation. *Transactions of the American Nuclear Society* 95:477–478.

GLASCOCK, MICHAEL D. AND **ROBERT J. SPEAKMAN** (2006). Geochemistry: Elements. In *Stone Quarries and Sourcing in the Carolina Slate Belt*, edited by Vincas P. Steponaitis, Jeffrey D. Irwin, Theresa E. McReynolds, and Christopher R. Moore, pp. 76–89. Research Report No. 25, Research Laboratories of Archaeology, The University of North Carolina at Chapel Hill.

GLASCOCK, MICHAEL D. VLADIMIR K. POPOV, YAROSLAV V. KUZMIN, **ROBERT J. SPEAKMAN,** ANDREI V. PTASHINSKY, AND ANDREI V. GREBENNIKOV (2006). Sources of Obsidian on Kamchatka Peninsula (Russian Far East) and their use in Prehistory: Initial Results. In *Archaeology in Northeast Asia: On the Path to Bering Strait*, edited by Don E. Dumond and Richard L. Bland pp. 73–88. University of Oregon Anthropological Papers No. 65. University of Oregon, Eugene.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN,** VLADIMIR K. POPOV, AND YAROSLAV V. KUZMIN (2006). Geochemistry and Provenance Research on Obsidian from the Kamchatka Peninsula. *Transactions of the American Nuclear Society* 95:483–484.

KOLB, MICHAEL J., SEBASTIANO TUSA, AND **ROBERT J. SPEAKMAN** (2006). La Decorazione a "Denti di Lupo" Identità Sociale e Interazione nell'Età del Ferro in Sicilia Occidentale. *Sicilia Archeologica* 39(104):33–46.

KUZMIN, YAROSLAV V., VLADIMIR K. POPOV, ANDREI V. PTASHINSKY, **ROBERT J. SPEAKMAN,** AND MICHAEL D. GLASCOCK (2006). Obsidians Sredinnogo Khrebt Kamchatki

i ikh Ispolzovanie Drevnim Chelovekom [Obsidians of the Central Range of Kamchatka and their use by Ancient Humans]. In *IV Dikovskie Chteniya*, edited by A.I. Lebedintsev, pp. 81–83. Severo-Vostochny Kompleksny Nauchno-Issledovatel'skiy Institut Dalnevostochnogo Otdeleniya Rossiiskoi Akademii Nauk, Magadan.

MCCLURE, SARAH B., JOAN BERNABEU, ORETO GARCÍA, EMILI AURA, LLUÍS MOLINA, CHRISTOPHE H. DESCANTES, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). Testing Technological Practices: Neutron Activation Analysis of Neolithic Ceramics from Valencia, Spain. *Journal of Archaeological Science* 33 (5):671–680.

SHEPPARD, PAUL R., GARY RIDENOUR, **ROBERT J. SPEAKMAN**, AND MARK L. WITTEN (2006). Elevated Tungsten and Cobalt in Airborne Particulates in Fallon Nevada: Possible Implications for the Childhood Leukemia Cluster. *Applied Geochemistry* 21(1):152–165.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2006). Reply to Comment on “Elevated Tungsten and Cobalt in Fallon, Nevada: Possible Implications for the Childhood Leukemia Cluster”, by R. Seiler. *Applied Geochemistry* 21(4):715–723.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, AND MARK L. WITTEN (2006). Reply to Comment on “Elevated Tungsten and Cobalt in Fallon, Nevada: Possible Implications for the Childhood Leukemia Cluster”, by Blasland, Bouck, and Lee, Inc. *Applied GEOCHEMISTRY* 21(6):1086–1091.

SINOPOLI, CARLA M., STEPHEN DUEPPEN, ROBERT BRUBAKER, CHRISTOPHE DESCANTES, MICHAEL D. GLASCOCK, WILL GRIFFIN, HECTOR NEFF, RASMI SHOONGDEJ, AND **ROBERT J. SPEAKMAN** (2006). Characterizing the Stoneware “Dragon Jars” in the Guthe: Collection Chemical, Decorative and Formal Patterning. *Asian Perspectives*. 45(2):240–282.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND CHARLES T. LITTLE (2006). Neutron Activation Analysis of Medieval Limestone Sculpture at the University of Missouri Research Reactor Center. *Transactions of the American Nuclear Society* 95:479–480.

SPEAKMAN, ROBERT J., AND CRAIG M. JOHNSON (2006). The Effects of Erosion on Archaeological Sites along the Upper Oahe Reservoir, South Dakota. *North American Archaeologist* 27(1):91–110.

2005 (20)

BOULANGER, MATTHEW T., ALLEN D. HATHAWAY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). A Preliminary Study on the Suitability of Instrumental Neutron Activation Analysis (INAA) for Identifying Hathaway Formation Chert from the Northern Champlain Valley of Vermont. *Archaeology of Eastern North America* 32:105–126.

COGSWELL, JAMES W., DAVID R. ABBOTT, ELIZABETH J. MIKSA, HECTOR NEFF, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). Compositional Analysis of Hohokam

Schist-Tempered Pottery: Comparison of Methods. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 104–116. University of New Mexico Press, Albuquerque.

DIEBOLD, BENJAMIN H., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). LA-ICP-MS and the Late Neolithic Pottery of the Amuq Plain, Turkey. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 124–138. University of New Mexico Press, Albuquerque.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, AND HELEN P. POLLARD (2005). LA-ICP-MS as a Supplement to Abbreviated-INAA for Obsidian Artifacts from the Aztec-Tarascan Frontier. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 28–38. University of New Mexico Press, Albuquerque.

HENSLER, KATHY NILES, REED, LORI STEPHENS, AND **ROBERT J. SPEAKMAN** (2005). Looking at the Mimbres Valley from the West. In *Proceedings of the 13th Mogollon Conference (2004)*, edited by Lonnie Ludeman, pp. 364–379. Western New Mexico University Museum, Silver City, New Mexico.

KOLB, MICHAEL J., AND **ROBERT J. SPEAKMAN** (2005). Elymian Regional Interaction in Iron Age Western Sicily: A Preliminary Neutron Activation Study of Incised/Impressed Tablewares. *Journal of Archaeological Science*. 32(5):795–804.

POPOV, VLADIMIR K., ANDREI V. PTASHINSKY, YAROSLAV V. KUZMIN, MICHAEL D. GLASCOCK, ANDREI V. GREBENNIKOV, **ROBERT J. SPEAKMAN**, VLADIMIR L. LEONOV, E. GRIB, AND ANDREI A. GORBACH (2005). Geochemistry of Volcanic Glasses and Sources of Archaeological Obsidian on the Kamchatka Peninsula (Russian Far East). In *Northern Pacific Cultural Adaptations at the End of Pleistocene and in the Holocene*, edited by N. A. Goryachev, E. M. Kokorev, and I. Mumortsev, pp. 106–111. Northern International University, Magadan, Russia.

POPOV, VLADIMIR K., ANDREI V. PTASHINSKY, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND YAROSLAV V. KUZMIN (2005). Predvaritelnye Rezultaty Geokhimicheskikh Issledovaniy Obsidianov Kamchatki [Preliminary Results of the Geochemical Study of the Kamchatkan Obsidians]. In *Materialy 22-kh Krasheninnikovskikh Chteny*, edited by Vekov Svyazuyuschaya, pp. 165–167. Kraevedchesky Muzei, Petropavlovsk-Kamchatsky, Russia.

REED, HAROLD, ROBERT J. HOARD, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). A Caddoan-Style Sherd from Marion County, Kansas: Surprising Results from Compositional Analysis. *Kansas Anthropologist* 26:1–11.

REED, ALAN D., AND **ROBERT J. SPEAKMAN** (2005). Fremont Exchange of Snake Valley Series Ceramics Southwestern Utah. *Utah Archaeology* 18:7–29.

ROLL, TOM, MICHAEL NEELEY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). Characterization of Montana Cherts by LA-ICP-MS. In *Laser Ablation-ICP-MS in*

Archaeological Research, edited by Robert J. Speakman and Hector Neff, pp. 58–76. University of New Mexico Press, Albuquerque.

SALL, CANDACE A., M. NIEVES ZEDEÑO, AND **ROBERT J. SPEAKMAN** (2005). Compositional Analysis of Salado Polychrome Paints. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 155–166. University of New Mexico Press, Albuquerque.

SPEAKMAN, ROBERT J. (2005). Chemical Characterization of Mesa Verde and Mancos Black-on-White Pottery Pigments by LA-ICP-MS. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 167–187. University of New Mexico Press, Albuquerque.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, VLADIMIR K. POPOV, YAROSLAV V. KUZMIN, ANDREI V. PTASHINSKY, AND ANDREI V. GREBENNIKOV (2005). Geochemistry of Volcanic Glasses and Sources of Archaeological Obsidian on the Kamchatka Peninsula (Russian Far East): First Results. *Current Research in the Pleistocene* 22:11–13.

SPEAKMAN, ROBERT J., AND HECTOR NEFF (2005). Evaluation of Painted Pottery from the Mesa Verde Region Using Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS). In *Ceramics in Archaeology: Readings from 1936–2002*, compiled by Hector Neff, pp. 311–318. Society for American Archaeology, Washington, DC. (Originally published in *American Antiquity* 2002).

SPEAKMAN, ROBERT J., AND HECTOR NEFF (2005). The Application of Laser Ablation ICP-MS to the Study of Archaeological Materials—An Introduction. In *Laser Ablation-ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 1–15. University of New Mexico Press, Albuquerque.

TABARES, A. NATASHA, MICHAEL W. LOVE, **ROBERT J. SPEAKMAN**, HECTOR NEFF, AND MICHAEL D. GLASCOCK (2005). Straight from the Source: Obsidian Prismatic Blades at El Ujuxte. In *Laser Ablation ICP-MS in Archaeological Research*, edited by Robert J. Speakman and Hector Neff, pp. 16–27. University of New Mexico Press, Albuquerque.

TYKOT, ROBERT H., A. J. AMMERMAN, M. BERNABÒ BREA, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2005). Comprehensive Source Analysis and the Socioeconomic Role of Obsidian Trade in Northern Italy: New Data from the Middle Neolithic Site of Gaione. *Geoarchaeological and Bioarchaeological Studies* 3:103–106.

TYKOT, ROBERT H., TEDDI SETZER, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2005). Identification and Characterization of the Obsidian Sources on the Island of Palmarola, Italy. *Geoarchaeological and Bioarchaeological Studies* 3:107–111.

USMAN, A. A., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). An Initial Assessment of Prehistoric Ceramic Production and Exchange in Northern Yoruba,

Southwestern Nigeria: Results of Ceramic Compositional Analysis. *African Archaeological Review* 22(3):142–168.

2004 (6)

DESCANTES, CHRISTOPHE, DARRELL CREEL, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND SAMUEL WILSON (2004). Instrumental Neutron Activation Analysis of Caddoan Pottery from the George C. Davis Site (41CE19), Northeast Texas. *North American Archaeologist* 25(2):121–138.

HILL, DAVID V., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2004). Chemical Characterization of Sasanian and Early Islamic Glazed Ceramics from the Deh Luran Plain, Southwestern Iran. *Archaeometry* 46:585–605.

LITTLE, NICOLE C., LAURA KOSAKOWSKY, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND JOHN LOHSE (2004). Characterization of Maya pottery by INAA and ICP-MS. *Journal of Radioanalytical and Nuclear Chemistry* 262:103–110.

SPEAKMAN, ROBERT J., ELIZABETH C. STONE, MICHAEL D. GLASCOCK, ALTAN ÇILINGIROGLU, PAUL ZIMANSKY, AND HECTOR NEFF (2004). Neutron Activation Analysis of Urartian Pottery from Eastern Anatolia. *Journal of Radioanalytical and Nuclear Chemistry* 262:119–127.

STEVENSON, CHRISTOPHER M., MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2004). Instrumental Neutron Activation Analysis of Chert from the Williamson Site and Bolster's Store Source, Dinwiddie County, and the Mitchell Plantation Source, Sussex County, Virginia. *The Quarterly Bulletin of the Archaeological Society of Virginia* 59(4):211–227.

TABARES, A. NATASHA, MICHAEL W. LOVE, MICHAEL D. GLASCOCK, HECTOR NEFF Y **ROBERT J. SPEAKMAN** (2004). Variación y Distribución de las Fuentes de Navajas Prismáticas de Obsidiana en El Ujuxte, Guatemala. En *XVII Simposio de Investigaciones Arqueológicas en Guatemala, 2003*, edited by J.P. Laporte, B. Arroyo, H. Escobedo y H. Mejía, pp. 953–964. Museo Nacional de Arqueología y Etnología, Guatemala.

2003 (1)

MORROW, JULIET E., ROBERT A. TAYLOR, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2003). Neutron Activation Analysis of Late Mississippian Period Pottery from the Greenbrier Site (3IN1), Independence County, Arkansas. *The Arkansas Archeologist* 44:1–19.

2002 (3)

SPEAKMAN, ROBERT J. (2002). *Compositional Analysis of Pigments in Archaeology—A Case Study Using Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry*. M.A. thesis, Department of Anthropology, University of Missouri—Columbia.

SPEAKMAN, ROBERT J., AND HECTOR NEFF (2002). Evaluation of Painted Pottery from the Mesa Verde Region Using Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS). *American Antiquity* 66:137–144.

SPEAKMAN, ROBERT J., HECTOR NEFF, MICHAEL D. GLASCOCK, AND BARRY J. HIGGINS (2002). Characterization of Archaeological Materials by LA-ICP-MS. In *Archaeological Chemistry: Materials, Methods, and Meaning*, edited by Kathryn Jakes, pp. 48–63. ACS Symposium Series 831. American Chemical Society, Washington, DC.

2001 (2)

SPEAKMAN, ROBERT J. (2001). Archaeology in Lincoln County: Carl Chapman's 1937 Surveys and Excavation. *Missouri Archaeological Society Quarterly* 19(4):10–16.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND HECTOR NEFF (2001). Laboratory Profile. *Society for Archaeological Science Bulletin* 24(1):8–10.

1997 (1)

SPEAKMAN, ROBERT J., STANLEY A. AHLER, AND KIMBERLY BREAKEY (1997). Ceramic Analysis. In *Archaeology of the Mandan Indians at On-a-Slant Village (32MO26), Fort Abraham Lincoln State Park, Morton County, North Dakota*, edited by Stanley A. Ahler, pp. 197–260. Northern Arizona University, Flagstaff.

BOOK REVIEWS

SPEAKMAN, ROBERT J. (2003). Review of: Before the Volcano Erupted: The Ancient Cerén Village in Central America, by Payson Sheets. *Society for Archaeological Science Bulletin* 26(1):27–29.

SPEAKMAN, ROBERT J. (2000). Review of: The Fenn Cache Clovis Weapons and Tools, by George C. Frison and Bruce B. Bradley. *Society for Archaeological Science Bulletin* 23(1):22–23.

SELECTED REPORTS

2011–present, Author or coauthor of more than 20 of technical reports based on radiocarbon dating, stable isotopes, X-ray fluorescence (XRF), and/or inductively-coupled-plasma mass-spectrometry (ICP-MS) analyses of art, ethnographic, archaeological, geological, and other museum objects at UGA's Center for Applied Isotope Studies.

2007–2011, Author or coauthor of more than 40 technical reports based on Fourier transform infrared (FTIR), Raman, scanning electron microscopy (SEM), X-ray diffraction (XRD), gas

chromatography mass spectroscopy (GC-MS), light stable isotope mass spectrometry (IRMS), instrumental neutron activation analysis (INAA), X-ray fluorescence (XRF), and/or inductively-coupled-plasma mass-spectrometry (ICP-MS) analyses of art, ethnographic, archaeological, geological, and other museum objects at Smithsonian's Museum Conservation Institute.

1998–2006, Author or coauthor of more than 90 technical reports based on instrumental neutron activation analysis (INAA), X-ray fluorescence (XRF), and/or inductively-coupled-plasma mass-spectrometry (ICP-MS) analyses of archaeological samples and geologic source materials at the Archaeometry Laboratory at the University of Missouri Research Reactor.

SPEAKMAN, ROBERT J., (2012). Evaluation of Bruker's Tracer Family Factory Obsidian Calibration for Handheld Portable XRF Studies of Obsidian. Report prepared for Bruker AXS, Kennewick, WA.

SPEAKMAN, ROBERT J., LUELLA M. PARKS, MICHAEL J. O'BRIEN (2003). *Archaeological Survey of Norbury Subdivision*. Report submitted to Habitat for Humanity and State Historic Preservation Office, Missouri Department of Natural Resources, HPP 106 Project Number 034-BO-03.

PARKS, LUELLA M., **ROBERT J. SPEAKMAN**, JAMES W. COGSWELL (1999). *Resurvey of Lincoln County, Missouri: A Pilot Study for ReMAP*. American Archaeology Division, University of Missouri–Columbia, Columbia, Missouri.

ORTIZ, DAVID O., **ROBERT J. SPEAKMAN** (1997). *Stabilization Review of Site 29 SJ 2387, Chaco Culture National Historical Park, New Mexico*. Report on file, NPS Chaco Culture NHP Museum Archive, University of New Mexico, Albuquerque.

SPEAKMAN, ROBERT J. (editor) (1997). *CONTACT XI: Conversations from the Forum*. CONTACT: Cultures of the Imagination, Capitola, California.

RYSER, GAIL L., **ROBERT J. SPEAKMAN**, PHILIP WILSON (1997). *The West Side Story: A Report on Ceramics from Six Sinagua Sites in West Flagstaff, Arizona*. Report on File, Museum of Northern Arizona, Flagstaff.

SPEAKMAN, ROBERT J., ERIC SISSON (editors) (1996). *CONTACT X: Conversations from the Forum*. CONTACT: Cultures of the Imagination, Capitola, California.

PROFESSIONAL PRESENTATIONS & ABSTRACTS (N > 150)

2016 (N =5)

BRINK, JACK, CHRISTIAN BARRON-ORTIZ, KATHY LOFTIS, AND **ROBERT J. SPEAKMAN** (2016). New Evidence for Humans and Game Animals in Central Alberta 12,700 Cal PB, and

implications for the Ice Free Corridor. Presented at the 74th Plains Anthropological Conference, Lincoln.

DVORACEK, DOUG, KATHARINE NAPORA, KATHY M. LOFTIS, CORBIN L. KLING, PAUL R. SHEPPARD, **ROBERT J. SPEAKMAN** (2016). A Dendrochemical Study of the 1980 Eruption of Mount St. Helens. Presented at the 2016 Annual Meeting of the Geological Society of America, Denver.

GIRALDO, HERNANDO J., **ROBERT J. SPEAKMAN**, MICHAEL GLASCOCK (2016). Pottery Production and Consumption in the Andean-Amazonian Frontier in Southwestern Colombia (2500–500 B.P.). Presented at the 81st Annual Meeting of the Society for American Archaeology, Tampa.

JONES, TRAVIS, AND **ROBERT J. SPEAKMAN** (2016). Western Canadian pXRF Obsidian Sourcing. Presented at the 81st Annual Meeting of the Society for American Archaeology, Tampa.

JONES, TRAVIS, BILL BILLECK, AND **ROBERT J. SPEAKMAN** (2016). Obsidian Sourcing in the Northern and Central Plains. Presented at the 74th Plains Anthropological Conference, Lincoln.

2015 (N = 8)

HUNT, ALICE, AND **ROBERT J. SPEAKMAN** (2015). Portable XRF Analysis of Archaeological Ceramics: the Good, the Bad, the Reality. Presented at the 13th European Meeting on Ancient Ceramics, Athens, Greece.

HUNT, ALICE, AND **ROBERT J. SPEAKMAN** (2015). Portable XRF Analysis of Archaeological Ceramics: the Good, the Bad, the Reality. Presented at the 2015 Annual Meeting of the American Schools of Oriental Research, Atlanta.

HUNT, ALICE AND **ROBERT J. SPEAKMAN** (2015). Protocol for Analysis of Archaeological Ceramics by pXRF. Presented at the 2015 Annual Meeting of the American Schools of Oriental Research, Atlanta.

HUNT, ALICE, DAVID H. THOMAS, AND **ROBERT J. SPEAKMAN** (2015). Protocol for Analysis of Archaeological Ceramics by pXRF. Presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco.

LOFTIS, KATHY, ALEXANDER CHERKINSKY, AND **ROBERT J. SPEAKMAN** (2015). Protocol for Analysis of Archaeological Ceramics by pXRF. Presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco.

TALIAFERRO, MATTHEW, SCHRIEVER, BERNARD, ELIZABETH TONEY, AND **ROBERT J. SPEAKMAN** (2015). Exploring Technological Organization Through Time: Mimbres Pottery

Production. Presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco.

THOMPSON, VICTOR D., AMANDA ROBERTS THOMPSON, **ROBERT J. SPEAKMAN** (2015). Preliminary Research using pXRF on Gilded Beads. Paper presented at the 2015 Society for Georgia Archaeology Spring Meeting, Valdosta, GA.

THOMPSON, VICTOR D., AMANDA ROBERTS THOMPSON, **ROBERT J. SPEAKMAN**, ELLIOT BLAIR, AND ALICE HUNT (2015). All that Glitters is Not Gold: pXRF Analysis of Gilded Beads from Spanish Period Sites in the Southeast. Paper presented at the 72nd Southeastern Archaeological Conference, Nashville, TN.

2014 (N = 4)

CREEL, DARRELL, STEPHEN LEBLANC, AND **ROBERT SPEAKMAN** (2014). Neutron Activation Analysis of Pottery from Swarts Ruin. Paper presented at the 2014 Mogollon Archaeology Conference, Las Cruces, New Mexico.

HUNT, ALICE AND **ROBERT J. SPEAKMAN** (2014). Protocol for Analysis of Archaeological Ceramics by pXRF. Presented at the 79th Annual Meeting of the Society for American Archaeology, Austin.

JONES, TRAVIS, DANIEL BIGMAN, AND **ROBERT J. SPEAKMAN** (2014). Testing Alternative Methods for Unmarked Burial Identification. Presented at the 79th Annual Meeting of the Society for American Archaeology, Austin.

SPEAKMAN, ROBERT J., ROBERT G. MCGIMSEY, RICHARD DAVIS, MICHAEL YARBOROUGH, AND JEFF RASIC (2014). Aleutian Island and Alaska Peninsula Obsidian. Presented at the 41st Alaska Anthropological Association, Fairbanks.

2013 (N = 4)

DYRDAHL, ERIC R. AND **ROBERT J. SPEAKMAN** (2013). Investigating Human Social Dynamics and Interaction in Ecuadorian Prehistory through Obsidian Artifact Provenience. Paper presented at the 245th National Meeting of the American Chemical Society, April 7–11, 2013, New Orleans, Louisiana.

IÑAÑEZ, JAVIER G., NADIA JIMÉNEZ-CANO, AND **ROBERT J. SPEAKMAN** (2013). Colonial Ceramics in the Americas: Majolica Provenience Assessment by LA-ICP-MS. Poster presented at the 2013 European Meeting on Ancient Ceramics, September 19–21, 2013, Padova, Italy.

SHEPPARD, PAUL R., DENNIS R. HELSEL, **ROBERT J. SPEAKMAN**, GARY RIDENOUR, MARK L. WITTEN (2013). Additional Analysis of Dendrochemical Data of Fallon, Nevada. Poster presentation at AmeriDendro 2013, May 13–17, Tucson, Arizona.

STANFORD, DENNIS, DARRIN LOWERY, MARGARET JODRY, BRUCE BRADLEY, MARVIN KAY, TOM STAFFORD, AND **ROBERT J. SPEAKMAN** (2013). The Chesapeake Bifaces: Evidence for an LGM Occupation of the Mid-Atlantic Region of North America. Paper presented at the Paleoamerican Odyssey Conference, October 17–19, 2013, Santa Fe, New Mexico.

2012 (N = 3)

CREEL, DARRELL, AND **ROBERT J. SPEAKMAN** (2012). The Mimbres Vessel Project: An update on the Neutron Activation Analysis Effort. Paper presented at the 17th Mogollon Conference, Silver City, New Mexico, October 4–6, 2012.

RASIC, JEFFREY T., JOSHUA D. REUTHER, AND **ROBERT J. SPEAKMAN** (2012). Russian Obsidian in Alaska. Paper presented at the 77th Annual Meeting of the Society for American Archaeology, Memphis.

SPEAKMAN, ROBERT J., ROBERT G. MCGIMSEY, RICHARD DAVIS, MICHAEL YARBOROUGH, AND JEFF RASIC (2012). Aleutian Island and Alaska Peninsula Obsidian. Presented at the 77th Annual Meeting of the Society for American Archaeology, Memphis.

2011 (N = 7)

ANTOINE, BETH, **ROBERT J. SPEAKMAN**, MARION F. MECKLENBURG, AND MELVIN J. WACHOWIAK (2011). The Conservation of Letterpress Copying Books: A Study of the Baird Collection. Paper presented at the 2011 Annual Meeting of the American Institute for Conservation of Historic and Artistic Works, May 31–June 3, Philadelphia.

BALLARD, MARY W., LAURA MINA, MAREI HACKE, AND **ROBERT J. SPEAKMAN** (2011). Portable and Micro-XRF: A Non-Destructive Way to Screen Textiles and Identify Mordants. Poster presented at the 30th annual Dyes in History and Archaeology meeting, October 13–14, 2011, Derby, UK

JUAN GUILLERMO MARTÍN, JAVIER G. INANEZ, NADIA JIMENEZ-CANO, RICHARD G. COOKE, AND **ROBERT J. SPEAKMAN**. Paper presented at the Society for Historic Archaeology 2010 Conference on Historical and Underwater Archaeology Amelia Island Plantation, Austin, Texas. January 5–9, 2011.

IÑÁÑEZ, JAVIER G., JUAN GUILLERMO MARTÍN, JEREMY J. BELLUCCI, RICHARD ASH, WILLIAM McDONOUGH, ANTONIO COELLO, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, AND JAUME BUXEDA I GARRIGÓS (2011) Chemical and Pb Isotopic Characterization of Majolica Pottery from Convento de Santo Domingo (16th–17th centuries), Lima (Peru). Paper presented at the International Congress of Early Modern Archaeology: Old and New Worlds, April 6–9, Lisbon, Portugal.

MADRID I FERNÁNDEZ, MARISOL, JAVIER G. IÑÁÑEZ, NADIA JIMÉNEZ-CANO, JAUME BUXEDA I GARRIGÓS, AND **ROBERT J. SPEAKMAN** (2011). New Assessment of Terra Sigillata Glosses:

the Role of LA-ICP-MS. Paper presented at the European Meeting on Ancient Ceramics, Sept 29–Oct. 1, Vienna, Austria.

RASIC, JEFF, JIM BAICHTAL, RITA CARLSON, AND **ROBERT J. SPEAKMAN** (2011). How to Source Obsidian in Southeast Alaska. Paper presented at 2011 Annual Meeting of the Alaska Anthropological Association, March 9–12, Fairbanks.

SPEAKMAN, ROBERT J., DARRELL CREEL, AND MYLES R. MILLER (2011). Details of Mimbres Pottery Production and Distribution Revealed by INAA. Paper presented at the 2011 American Chemical Society Middle Atlantic Regional Meeting, May 21–24, University of Maryland, College Park.

2010 (N = 20)

BEAUBIEN, HARRIET F., **ROBERT J. SPEAKMAN**, KIMBERLY J. CULLEN COBB, ELLEN G. HOWE AND RICHARD G. COOKE (2010). Shedding Light on Goldworking in Pre-Columbian Panama: Technological Study of Contextualized Finds from Cerro Juan Diaz. Paper presented at the Materials Research Society Fall Meeting, Symposium WW: Materials Issues in Art and Archaeology IX, Boston, MA, November 29–Dec 2, 2010.

CREEL, DARRELL, **ROBERT J. SPEAKMAN**, AND MYLES R. MILLER (2010). Mimbres Pottery Production and Distribution: An Update on INAA Efforts. Paper presented at the 16th Biennial Mogollon Archaeology Conference, New Mexico State University, Las Cruces, New Mexico, October 14–16, 2010.

FLOREY, VICTORIA, NICOLE C. LITTLE, CHRIS HOULETTE, JEFFREY T. RASIC, AND **ROBERT J. SPEAKMAN** (2010). The Application of Micro-XRF and Inductively Coupled Plasma Mass Spectrometry Technology on the Analysis of Alaska Obsidian. Paper presented at 2010 Annual Meeting of the Alaska Anthropological Association, Anchorage, Alaska, March 24–27, 2010.

HEGINBOTHAM, ARLEN, ANIKO BEZUR, MICHEL BOUCHARD, JEFFREY DAVIS, KATHERINE EREMIN, JAMES H. FRANTZ, LISHA GLINSMAN, LEE-ANN HAYEK, DUNCAN HOOK, VICKY KANTARELOU, ANDREAS KARYDAS, LYNN LEE, ANDREW LINS, JENNIFER MASS, CATHERINE MATSEN, BLYTHE MCCARTHY, MOLLY MCGATH, BETH PRICE, AARON SHUGAR, JANE SIROIS, DYLAN SMITH, AND **ROBERT J. SPEAKMAN** (2010). A Round-Robin Study to Evaluate the Inter-Laboratory Reproducibility of Quantitative X-ray Fluorescence Spectroscopy on Historic Copper Alloys. Paper presented at the International Conference on Historic Metals Conservation, October 11–15, 2010, Charleston, South Carolina.

HOULETTE, CHRIS, JEFF RASIC, VICTORIA FLOREY, AND **ROBERT J. SPEAKMAN** (2010). Prehistoric Obsidian Procurement and Transport in Gates of the Arctic National Park and Preserve. Paper presented at 2010 Annual Meeting of the Alaska Anthropological Association, Anchorage, Alaska, March 24–27, 2010.

IÑAÑEZ, JAVIER, CAROL A. GRISSOM, S. COLBY PHILLIPS, AND **ROBERT J. SPEAKMAN** (2010). Recent, International Advances in the use of PXRf and other Portable Field Technologies for Archaeochemical Studies of Historic Sites. Paper presented at the Society for Historic Archaeology 2010 Conference on Historical and Underwater Archaeology Amelia Island Plantation, Jacksonville, Florida. January 6–9, 2010.

IÑAÑEZ, JAVIER, BONNIE G. MCEWAN, JERRY W. LEE, NICOLE C. LITTLE, AND **ROBERT J. SPEAKMAN** (2010). Archaeometrical Characterization of Colonial Pottery from Mission San Luis, Florida. Paper presented at the Society for Historic Archaeology 2010 Conference on Historical and Underwater Archaeology Amelia Island Plantation, Jacksonville, Florida. January 6–9, 2010.

IÑAÑEZ, JAVIER G., JEREMY BELLUCCI, RICHARD ASH, AND **ROBERT J. SPEAKMAN** (2010). Pb Isotope Characterization of Majolica Pottery from Spain and the Americas. Paper presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis.

IÑAÑEZ, JAVIER G., GIFFORD J. WATERS, KATHLEEN DEAGAN, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2010). Archaeometrical Characterization of Majolica Ceramics from St. Augustine (Florida). Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

IÑAÑEZ, JAVIER G., MARISOL MADRID I FERNANDEZ, JUDIT MOLERA, TRINITAT PRADELL, JAUME BUXEDA I GARRIGÓS, AND **ROBERT J. SPEAKMAN** (2010). Potters and Pigments: Preliminary Technological Assessment of Pigment Recipes of American Majolica. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

IÑAÑEZ, JAVIER G., JAUME BUXEDA I GARRIGOS, MARISOL MADRID I FERNANDEZ, JUDIT MOLERA, TRINITAT PRADELL, AND **ROBERT J. SPEAKMAN** (2010). Romita Ware: Technological Characterization of a Hybrid Colonial Ceramic. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

IÑAÑEZ, JAVIER G., KATHLEEN DEAGAN, GIFFORD WATERS, MICHAEL D. GLASCOCK, JAUME BUXEDA I GARRIGÓS, AND **ROBERT J. SPEAKMAN** (2010). First Encounters in the Hispaniola: Archaeometrical Characterization of Early Spanish Colonial and Taino Ceramics from Concepcion de la Vega (Dominican Republic). Paper presented at the Materials Research Society Fall Meeting, Symposium WW: Materials Issues in Art and Archaeology IX, Boston, MA, November 29–Dec 2, 2010.

LITTLE, NICOLE C. IRMA MOLINA, DOUGLAS W. OWSLEY, AND **ROBERT J. SPEAKMAN** (2010). Quantification of Heavy Metals in Bone using Portable. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

MIRELES, FERNANDO, JOSE LUIS PINEDO, J. IGNACIO DAVILA, JESUS E. OLIVA, **ROBERT J. SPEAKMAN** AND MICHAEL D. GLASCOCK (2010). Major, Trace and Rare Earth Elements in Sediments of the Julian Adame-Alatorre Dam by Instrumental Neutron Activation Analysis. Paper presented at the 17th Pacific Basin Nuclear Conference, October 24-30, Cancun, Q.R., Mexico.

RASIC, JEFFREY T. GREG HARE, CHRISTOPHER HOULETTE, AND **ROBERT J. SPEAKMAN** (2010). Preferential Use of Exotic Obsidian in the Southern Yukon Territory. Paper presented at 2010 Annual Meeting of the Alaska Anthropological Association, Anchorage, Alaska, March 24–27, 2010.

SPEAKMAN, ROBERT J., S. COLBY PHILLIPS, VICTORIA FLOREY, NICOLE C. LITTLE, AND JAVIER G. IÑÁÑEZ. Approaches to Micro-XRF of Analysis Obsidian. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

SPEAKMAN, ROBERT J. CHRISTINE A.M. FRANCE, PAUL R. SHEPPARD, NADIA JIMENEZ CANO, AND NICOLE C. LITTLE (2010). Dating Volcanic Eruption in Prehistory: Chemical and Isotopic Approaches. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

SPEAKMAN, ROBERT J. CHRISTINE A.M. FRANCE, PAUL R. SHEPPARD, NADIA JIMENEZ CANO, AND NICOLE C. LITTLE (2010). Stable Isotopic and Chemical Indicators of Volcanic Eruptions in Tree Rings from Paricutin, Mexico—Implications for Dating Prehistoric Eruptions. Paper Presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis.

WOLFF, CHRISTOPHER, WILLIAM FITZHUGH, AND **ROBERT J. SPEAKMAN** (2010). The Utility of pXRF in the Assessment of Slate Procurement and Exchange by the Maritime Archaic of Newfoundland and Labrador. Paper Presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis.

WOLFF, CHRISTOPHER, WILLIAM FITZHUGH, AND **ROBERT J. SPEAKMAN** (2010). The Utility of pXRF in the Assessment of Slate Procurement and Exchange by the Maritime Archaic of Newfoundland and Labrador. Paper presented at the 38th International Symposium on Archaeometry, University of South Florida, Tampa, May 10–14, 2010.

2009 (N = 7)

BEAUBIEN, HARRIET F., **ROBERT J. SPEAKMAN**, AND RICHARD G. COOKE (2009). Pre-Columbian Goldworking in Panama: A Technological Study of Finds from Cerro Juan Díaz. Paper presented at AURUM: Authentication and Analysis of Gold Work, May 11–13, 2009, Paris.

FRANCE, CHRISTINE A.M., PAUL R. SHEPPARD, NADIA JIMENEZ CANO, AND **ROBERT J. SPEAKMAN** (2009). Stable Isotopic and Chemical Indicators of Volcanic Eruptions in Tree

Rings from Paricutin, Mexico. Paper presented at the 2009 Fall Meeting of the American Geophysical Meeting, 14–18 December 2009, San Francisco, California.

FUSCO, MARIA, STEPHEN P. MELLOR, AND **ROBERT J. SPEAKMAN** (2009). African Beaded Objects: Characterizing Conservation Issues and Testing and Developing Cleaning Treatments. Poster presented at the 2009 Annual Meeting of the American Institute for Conservation of Historic and Artistic Works, May 19–22, 2009, Los Angeles, California.

MOLERA, JUDIT, JAVIER G. IÑÁÑEZ, JOAN CASAS, JAUME BUZEDA, **ROBERT J. SPEAKMAN**, AND TRINITAT PRADELL (2008). Provenance of Blue Tin Glaze and Lustre Pottery from Sant Bartomeu del Grau 17th-18th (Catalonia). Paper Presented at the 2009 European Meeting on Ancient Ceramics, September 10–13, 2009, London.

RASIC, JEFFREY T. CHRISTOPHER HOULETTE, NATALIA SLOBODINA, JOSHUA REUTHER, VICTORIA FLOREY, AND **ROBERT J. SPEAKMAN** (2009). A Twelve Thousand Year History of Obsidian Prospecting in Eastern Beringia. Paper presented at 2009 Annual Meeting of the Geological Society of America, Portland, Oregon, Oct. 18–21, 2009.

SPEAKMAN, ROBERT J., DARRELL CREEL, AND MYLES R. MILLER (2009). Pottery production in the Mimbres and Jornada Regions of the American Southwest. Paper presented at the 74th Annual Meeting of the Society for American Archaeology, Atlanta, Georgia.

IÑÁÑEZ, JAVIER, JAUME BUXEDA I GARRIGÓS, VASSILIS KILIKOGLU, AMELIA RODRÍGUEZ, RODRÍGUEZ, AND **ROBERT J. SPEAKMAN** (2009). Obsidian from the Canary Islands (Spain): A Multidisciplinary Investigation. Paper presented at the 74th Annual Meeting of the Society for American Archaeology, Atlanta, Georgia, 2009.

2008 (N = 13)

BROSTOFF, LYNN B., CATHERINE MAYNOR, AND **ROBERT J. SPEAKMAN** (2008). XRF and XRD Analyses of Converted Lead Pigment on a Georgia O’Keeffe Pastel Drawing. Paper presented at the Denver X-Ray Conference, 4–8 August 2008.

IÑÁÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, AND JAUME BUXEDA I GARRIGÓS (2008). Technological Features of Majolica Pottery: Differentiation and Implications for Archaeometrical Studies. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

IÑÁÑEZ, JAVIER G., **ROBERT J. SPEAKMAN**, RONALD L. BISHOP, AND M. JAMES BLACKMAN (2008). Technological Features of Colonial Glazed Pottery from El Convento de Santo Domingo (Antigua, Guatemala). Similarities and differences between Colonial and Spanish pottery. Paper Presented at the 37th International Symposium on Archaeometry, Siena, Italy, May 12–16, 2008.

KYSAR MATTIETTI, GIUSEPPINA, MARK KREKELER, DEAN E. ARNOLD, HECTOR NEFF, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2008). Geochemical Investigation of

Palygorskite-Rich Units in the Central Yucatan, 193-25. Paper Presented at the 2008 Joint Meeting of the Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, October 5–9, 2008, Houston.

LITTLE, NICOLE C., LAURA KOSAKOWSKY, JON LOHSE AND **ROBERT J. SPEAKMAN** (2008). Chemical Analysis of Mayan Paints by LA-ICP-MS. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

PHILLIPS, S. COLBY, AND **ROBERT J. SPEAKMAN** (2008). Initial Source Evaluation of Archaeological Obsidian from the Kuril Islands of the Russian Far East. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

PHILLIPS, S. COLBY, AND **ROBERT J. SPEAKMAN** (2008). Initial source evaluation of archaeological obsidian from the Kuril Islands of the Russian Far East using portable XRF. Poster presented at the 6th Biennial Workshop on Japan-Kamchatka-Alaska Subduction Process, University of Alaska Fairbanks, June 26, 2008.

POHL, CHRISTIE M., GREG HODGINS, **ROBERT J. SPEAKMAN**, HARRIET F. BEAUBIEN, A.J. TIMOTHY JULL (2008). Cyclododecane: Does this subliming fixative for archaeological materials affect ¹⁴C dating? Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

REUTHER, JOSH, NATASHA SLOBODINA, JEFF RASIC, **ROBERT SPEAKMAN**, JOHN COOK, AND MICHAEL D. GLASCOCK (2008). Gaining Momentum—The Status of Obsidian Source Studies in Alaska and its Importance for Developing a Better Understanding of Regional Prehistory. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

SLOBODINA, NATALIA, JOHN C. COOK, JOSHUA REUTHER, JEFF RASIC, AND **ROBERT J. SPEAKMAN** (2008). New Data from Old Collections: Alaskan Archaeological Obsidian Database. Paper presented at the Annual Meeting of Alaska Anthropological Association, Fairbanks, AK, February 27–March 1, 2008.

SPEAKMAN, ROBERT J., YAROSLAV V. KUZMIN, MICHAEL D. GLASCOCK AND VLADIMIR POPOV, ANDREI GREBENNIKOV, MARGARITA DIKOVA, AND ANDREI PTASHINSKY (2008). Obsidian Source Studies in Northeast Asia: Recent Research on the Kamchatka Peninsula. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

SPEAKMAN, ROBERT J., NATALIA SLOBODINA, JEFF RASIC, JOSHUA REUTHER, NICOLE C. LITTLE, AND JAVIER G. IÑÁÑEZ (2008). Portable X-ray Fluorescence and Laser Ablation ICP-MS Analyses of Obsidian Artifacts for Provenance Studies in Archaeology: An Example from Alaska. Paper Presented at the 37th International Symposium on Archaeometry, Siena, Italy, May 12–16, 2008.

WATSON, JUDY AND **ROBERT J. SPEAKMAN** (2008). Evaluating the Potential of SEM Micro-XRF for Obsidian Provenance Studies. Paper Presented at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver.

2007 (N = 15)

AHLMAN, TODD, G. SCHROEDL, A. MCKEOWN, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2007). Compositional Analysis of Pottery from St. Kitts. Paper presented at the 2007 Society for Historical Archaeology Conference, Williamsburg, VA, January 10–14.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2007). Compositional Analysis of Pottery from Antigua. Paper presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin.

DIETZ, M. J. AND **ROBERT J. SPEAKMAN** (2007). Reconstruction of dietary and activity patterns of the Early Intermediate Chongos culture using LA-ICP-MS. Paper presented at 72nd Annual Meeting of the Society for American Archaeology, Austin.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, PHIL C. WEIGAND, MICHAEL A. OHNERSORGEN, AND MAURICIO GARDUNO AMBRIZ (2007). A Comprehensive Database for Obsidian Sources in Western Mexico. Paper presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin.

LAZARRI, MARISA, L PEREYRA-D., M.C. SCATTOLIN, LESLIE CECIL, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2007). The Constitution of Regional Social Space during the Formative Period: New Results from Provenance Analysis in the Southern Calchaquies Valleys." Paper presented at the XVI Congreso Nacional de Arqueología Argentina, October 8–12, 2007, San Salvador de Jujuy, Argentina.

MILLER, MYLES, **ROBERT J. SPEAKMAN**, HECTOR NEFF, AND MICHAEL D. GLASCOCK (2007). Peripheral Basins and Ephemeral Polities: INAA of Mimbres Black-on-White Ceramics and Insights into Mimbres and Jornada Mogollon Social Relationships. Paper presented at the 15th Biennial Jornada Mogollon Conference, October 12, 2007, El Paso, Texas.

REUTHER, JOSHUA D., **ROBERT J. SPEAKMAN**, PETER M. BOWERS, MICHAEL D. GLASCOCK, BEN A. POTTER, AND JOHN P. COOK (2007). Recent Obsidian Analyses in Alaska. Poster presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, ELAINE SCHUMACHER, KENT RHODES, GARY RIDENOUR, AND MARK L. WITTEN (2007). Geochemical Study of Urban Environments with Excess Disease Prevalence. Paper presented at the 2007 GSA Denver Annual Meeting, October 28–31 2007, Denver, Colorado.

SHEPPARD, PAUL R., JOACHIM D. PLEIL, **ROBERT J. SPEAKMAN**, AND MARK L. WITTEN (2007). Ecologic Study of Mesoscale Environments with Excess Disease Prevalence. Paper

presented at the 7th National Conference on Science, Policy and the Environment: Integrating Environment and Human Health, Washington, DC., February 1–2, 2007.

SHIMADA, IZUMI, W. HAEUSLER, **ROBERT J. SPEAKMAN**, FRITZ E. WAGNER AND URSEL WAGNER (2007). First Results of a Mössbauer Study of Recent Ceramic Finds from Pachacamac, Central Peru. Poster presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin.

SPEAKMAN, ROBERT J. (2007). An Overview of Obsidian Source Studies in Alaska and Northeast Asia. Paper presented at the Annual Meeting of Alaska Anthropological Association, Fairbanks, AK, March 14–17, 2007.

SPEAKMAN, ROBERT J., DARRELL CREEL, MYLES R. MILLER, LORI STEPHENS REED, AND MICHAEL D. GLASCOCK. (2007). Pottery Production in the Mimbres and Jornada Regions of the American Southwest: Insights from INAA. Poster presented at 72nd Annual Meeting of the Society for American Archaeology, Austin.

TAYLOR, ROBERT, S. MCGAHA, JULIET MORROW, LESLIE G. CECIL, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2007). Compositional Analysis of Pottery from the Greenbrier Site. Paper presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin.

TYKOT, ROBERT H., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, AND E. ATZENI (2007). Obsidian Subsources Utilized at Sites in Southern Sardinia (Italy). Paper presented at the Materials Research Society Fall Meeting, Symposium: Materials Issues in Art and Archaeology VIII, Boston, MA, November 26–30, 2007.

WAGNER, U., W. HÄUSLER, R. SEGURA, I. SHIMADA, **ROBERT J. SPEAKMAN**, AND F.E. WAGNER (2007). Mössbauer Study of Recent Ceramic Finds from Pachacamac, Central Peru. Paper presented at ICAME'07, the International Conference of the Application of the Mössbauer Effect, Kanpur, India, on October 14–19, 2007.

2006 (N = 30)

BENCO, NANCY L., SAID ENNAHID, M. JAMES BLACKMAN, HECTOR NEFF, MICHAEL GLASCOCK, AND **ROBERT J. SPEAKMAN** (2006). Chemical Analyses of Pottery and Clays from the Medieval Islamic City of al-Basra and its Hinterland in Northern Morocco. Paper presented at the VIII Congreso Internacional de Ceramica Medieval en el Mediterraneo, Ciudad Real y Almagro, February 27–March 3, 2006.

BOULANGER, MATTHEW T., ALLEN D. HATHAWAY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). An Evaluation of the Feasibility of Instrumental Neutron Activation Analysis (INAA) for Sourcing Studies of Vermont Chert. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

BOULANGER, MATTHEW T., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK (2006). Characterization of New England Chert Sources by Neutron Activation, Paper presented at the American Nuclear Society 2006 Winter Meeting, November 12–16, 2006, Albuquerque.

CECIL, LESLIE G., **ROBERT J. SPEAKMAN**, ROMÚLO SÁNCHEZ-POLO, MATTHEW D. MORIARTY, AND MICHAEL D. GLASCOCK (2006). Investigating the Feasibility of Field-Portable XRF to Identify Obsidian Sources in Central Petén, Guatemala. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND DAVID V. HILL (2006). Compositional Studies of Caribbean Ceramics. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

DUSSUBIEUX, LAURE, MARK GOLITKO, PATRICK RYAN WILLIAMS, AND **ROBERT J. SPEAKMAN** (2006). LA-ICP-MS Analysis Applied to the Characterization of Peruvian Wari Ceramics. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

GIESSO, MARTIN, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). The Cerro Sapo Quarries (Bolivia) and Sodalite Procurement in the Andes. Paper presented at the 34th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory, February 25–26, Vanderbilt University, Nashville.

GIESSO, MARTIN, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2006). The Circulation of Obsidian, Basalt, and Sodalite in the South-Central Andes. Paper presented at the First Symposium on Lithic Technology in the South Central Andes, July 26–30, 2006, Museo Nacional de Etnografía y Folklore, La Paz, Bolivia.

GLASCOCK, MICHAEL D., AND **ROBERT J. SPEAKMAN** (2006). Chemical Characterization of Archaeologically Important Obsidian Sources in Peru. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

GLASCOCK, MICHAEL D., **ROBERT J. SPEAKMAN**, VLADIMIR K. POPOV, AND YAROSLAV V. KUZMIN (2006). Geochemistry and Provenance Research of Obsidian from the Kamchatka Peninsula. Paper presented at the American Nuclear Society 2006 Winter Meeting, November 12–16, 2006, Albuquerque.

HILL, DAVID V., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND HECTOR NEFF (2006). Technological Change in Mesopotamian Ceramic Glaze Technologies. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

LAGUENS, ANDRES, MARTIN GIESSO, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). Provenance Analysis of Gray-Black Incised Ceramics from the Eastern Valleys of Ambato and Tucuman, Argentina. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

IÑAÑEZ, JAVIER G., JAUME BUXEDA I GARRIGÓS, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006) Characterization of Majolica Pottery from the Earliest Spanish Sites in the Canary Islands (15th–16th centuries): A Study of Early Majolica Trade with the Americas. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

IÑAÑEZ, JAVIER G., JAUME BUXEDA I GARRIGÓS, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). Archaeometric Characterization of Renaissance Tin-Glazed Potter from Talavera de la Reina, Puente del Arzobispo, and Seville (Spain). Paper presented at the 36th International Symposium on Archaeometry, May 2–6, 2006, Quebec City, Canada.

LITTLE, NICOLE C., LAURA J. KOSAKOWSKY, AND **ROBERT J. SPEAKMAN** (2006). The Political Economy of Pots: Chemical and Typological Characterization of Classic Period Ceramics from Northwestern Belize. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

LITTLE, NICOLE C., TIMOTHY J. SCARLETT, **ROBERT J. SPEAKMAN**, CHRIS MERRITT, AND MICHAEL D. GLASCOCK (2006). Analysis of Historic Mormon Pottery Glazes by LA-ICP-MS. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

POPELKA-FILCOFF, RACHEL, NATHAN CRAIG, MICHAEL D. GLASCOCK, J. DAVID ROBERTSON, MARK S. ALDENDERFER, AND **ROBERT J. SPEAKMAN** (2006). Neutron Activation Analysis of Ochre Artifacts from Jiskairumoko, Peru. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

SHARRATT, NICOLA, PATRICK R. WILLIAMS, DONNA J. NASH, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2006). Status and Specialized Production on Wari's Southern Frontier. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

SHIMADA, IZUMI, RAFAEL SEGURA, DAVID J. GOLDSTEIN, MELODY SHIMADA, **ROBERT J. SPEAKMAN**, URSEL WAGNER, HIROKATSU WATANABE (2006). What Did People Do at Pachacamac?: Identity, Form, Timing and Meaning of Offerings. Paper presented at the 34th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory, February 25–26, Vanderbilt University, Nashville.

SPEAKMAN, ROBERT J., DARRELL CREEL, AND MYLES R. MILLER (2006). Pottery production in the Mimbres and Jornada regions of the American Southwest. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

SPEAKMAN, ROBERT J., PATRICK RYAN WILLIAMS, MARK ALDENDERFER, RACHEL POPELKA, J. DAVID ROBERTSON, PAUL S. GOLDSTEIN, AND MICHAEL D. GLASCOCK (2006). Portable-XRF (PXRF) Analysis of Tiwanaku and Wari Metal Artifacts from the Osmore River Drainage, Peru. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

SPEAKMAN, ROBERT J., RACHEL S. POPELKA-FILCOFF, MARK ALDENDERFER, AND ROLANDO PAREDES (2006). Analysis of Metal Artifacts from Cutimbo, Peru by Portable-XRF. Poster presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND CHARLES T. LITTLE (2006). Neutron Activation Analysis of Medieval Limestone Sculpture at the University of Missouri Research Reactor Center. Paper presented at the American Nuclear Society 2006 Winter Meeting, November 12 – 16, 2006, Albuquerque.

STEVENSON, CHRISTOPHER M., DEREK WHEELER, STEVEN W. NOVAK, **ROBERT J. SPEAKMAN,** AND MICHAEL D. GLASCOCK (2006). Dating High Calcium Historical Glasses through Surface Water Diffusion. Paper presented at the 231st National Meeting of the American Chemical Society, March 2006, Atlanta.

STEVENSON, CHRISTOPHER M., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN,** AND MICHELLE MCCARTNEY (2006). Expanding the Geochemical Database for Virginia Jasper Sources. Paper presented at the 36th Annual Meeting of the Middle Atlantic Archaeological Conference, March 23–26, 2006, Virginia Beach.

SYZMCZAK, JOE, ANITA COOK, WILLIAM ISBELL, **ROBERT J. SPEAKMAN,** AND PATRICK RYAN WILLIAMS (2006). Wari Ceramic Production at Conchopata and Cerro Baul: Insights from Sourcing Studies. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

TYKOT, ROBERT H., LISA BEYER, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2006). Sources and Trade of Obsidian from Lipari (Aeolian Islands, Italy), Paper presented at the XVth Congress of the International Union for Prehistoric and Protohistoric Sciences, Lisboa, Portugal, September 4-9, 2006.

TYKOT, ROBERT H., BARBARA A. VARGO, MAURIZIO TOSI, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2006). Usage of Obsidian Subsources on Pantelleria, Italy. Paper presented at the 36th International Symposium on Archaeometry, Quebec City, Canada, May 2-6, 2006.

WILLIAMS, PATRICK RYAN, DONNA NASH, DAVID GOLDSTEIN, AND **ROBERT J. SPEAKMAN** (2006). Evidence for Early State Sponsored Brewing at Cerro Baul, Peru. Paper presented at the 13th Conservation Science Annual. Eastern Analytical Society/New York Conservation Foundation, Somerset, New Jersey, November 11–16, 2006.

WILLIAMS, VERÓNICA I., CALÓGERO SANTORO VARGAS, ALVARO ROMERO, **ROBERT J. SPEAKMAN,** AND MICHAEL D. GLASCOCK (2006). Inka Pottery Production and Consumption in NW Argentina; Northern Chile, and Bolivia. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan.

2005 (N = 18)

CREEL, DARRELL, DALE HUDLER, **ROBERT J. SPEAKMAN**, HECTOR NEFF, AND MICHAEL D. GLASCOCK (2005). Compositional Analyses and New Perspectives on Mimbres Pottery Production and Exchange. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

DESCANTES, CHRISTOPHE H., DARRELL CREEL, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND SAMUEL WILSON (2005). Instrumental Neutron Activation Analysis of Pottery from the George C. Davis (41CE19) Site, Texas. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

DESCANTES, CHRISTOPHE H., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND DAVID V. HILL (2005). Compositional Analyses of Ceramics from the Indian Creek Site, Antigua: Preliminary Results. Paper presented at the 21st Congress of the International Association of Caribbean Archaeologists, July 24–30, 2005, University of the West Indies, Trinidad.

GHAZAL, ROYAL O., NICHOLAS KOUCHOUKOS, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND CHRISTOPHE H. DESCANTES (2005). Production Zone Sourcing and Intra-Regional Exchange of Ceramics in the Fourth Millennium BC Susiana Plain. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

HERBERT, JOSEPH M., THERESA E. MCREYNOLDS, MICHAEL S. SMITH, **ROBERT J. SPEAKMAN** AND MICHAEL D. GLASCOCK (2005). Clay Sources, Pottery Production, and Circulation in the Carolina Sandhills. Paper presented at the 2005 Southeastern Archaeological Conference, Columbia, South Carolina, November 2–6.

HOARD, ROBERT J., DONNA K. ROPER, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND ANNE M. DICOSOLA (2005). Central Plains Tradition Pottery Style Distribution and its Correlation with Chemical Composition as Determined by Using Neutron Activation Analysis. Poster presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

LAGUENS ANDRES, MARTIN GIESSO, MIRTA BONNIN, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, NÉSTOR KRISKAUTZKY, AND BÁRBARA MANASSE (2005). Análisis de Procedencia de Cerámica Ambato Gris-Negra Grabada en los Valles Orientales de Catamarca Y Tucumán, Argentina. [Provenance Analysis of Gray-Black Incised Ceramics from the Eastern Valleys of Ambato and Tucuman, Argentina]. Paper presented at the Inaugural Congress for Argentinean Archaeometry—Scientific Methods Applied to the Study of Cultures: Dating, Characterization, Prospection, and Conservation. Universidad Nacional de Rosario, Argentina, October 20–21, 2005.

MILLER, MYLES, **ROBERT J. SPEAKMAN**, HECTOR NEFF, AND MICHAEL D. GLASCOCK (2005). Peripheral Basins and Ephemeral Polities: INAA of Mimbres Black-on-White Ceramics and Insights into Mimbres and Jornada Mogollon Social Relationships. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

POPOV, VLADIMIR K., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, ANDRE V. GREBENNIKOV, AND ANDRE V. PTASHINSKY (2005). Sources of Volcanic Glass on the Kamchatka Peninsula, Russian Far East: Recent Geochemical Studies. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

POPOV VLADIMIR K., ANDRE V. PTASHINSKY, YAROSLAV V. KUZMIN, MICHAEL D. GLASCOCK, ANDRE V. GREBENNIKOV, **ROBERT J. SPEAKMAN** V. L. LEONOV E. N. GRIB, AND A. A. GORBACH (2005). Geochemistry of Volcanic Glasses and Sources of Archaeological Obsidian on the Kamchatka Peninsula (Russian Far East) Paper presented at the 2005 Magadan (Russia) Archaeology Conference, Sept. 2005.

RAY, DWIJESH, R. BANERJEE, S. D. IYER, V. BALARAM, AND **ROBERT J. SPEAKMAN** (2005). Serpentinized Peridotite Spinel Composition: Northern Central Indian Ridge at 6°39'. Paper presented at 2005 Annual Meeting of the Geological Society of America, Salt Lake City, UT, Oct. 16–19, 2005.

ROLL, TOM, MICHAEL NEELEY, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2005). Characterization of Montana Cherts by LA-ICP-MS. Paper presented at the 7th Biennial Rocky Mountain Anthropological Conference, September 15–18, Park City, Utah.

SHEPPARD, PAUL, MICHAEL ORT, **ROBERT J. SPEAKMAN**, KIRK ANDERSON, AND MARK ELSON (2005). Dendrochemical Analysis of Trees Affected by the Paricutin Eruption, with Implications for Re-Analyzing the Sunset Crater Eruption. Paper presented at 2005 Annual Meeting of the Geological Society of America, Salt Lake City, UT, Oct. 16–19.

SHEPPARD, PAUL, MICHAEL ORT, KIRK ANDERSON, **ROBERT SPEAKMAN**, AND MARK ELSON (2005). Dendrochemical Analysis of Trees Affected by Cinder Cone Eruptions: A New Technique for Reanalyzing the Sunset Crater Eruption. Paper Presented at the 80th Annual Meeting of the Southwestern and Rocky Mountain Division of AAAS, Tucson, April 16–18, 2005.

SHEPPARD, PAUL R., **ROBERT J. SPEAKMAN**, GARY RIDENOUR, MICHAEL D. GLASCOCK, CALVIN FARRIS, AND MARK L. WITTEN (2005). Spatial Patterns of Airborne Exposure of Tungsten and Cobalt in Fallon, Nevada, from Lichens and Surface Sediments. Paper presented at the 2005 Fall Meeting of the American Geophysical Meeting, 5–9 December 2005, San Francisco, California.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, CHRISTOPHE H. DESCANTES, RACHEL S. POPELKA, AND J. DAVID ROBERTSON (2005). An Examination of the Potential of Portable-XRF in Archaeology. Poster presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

TYKOT, ROBERT H., **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK (2005). Prehistoric Obsidian Trade in Central-Northern Italy: Artifact Analyses from the Neolithic Site of

Poggio Olivastro (Canino-Viterbo). Paper presented at the 35th International Symposium on Archaeometry, Beijing, China, 10–15 May 2005.

VARGO, BARBARA A., ROBERT H. TYKOT, MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN** (2005). Analysis of Obsidian Artifacts from Pantelleria (Italy) and Tunisia. Poster presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City.

2004 (N = 12)

HARRY, KAREN, PAUL FISH, SUZANNE FISH, CHRISTOPHE DESCANTES, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2004). The Organization of Ceramic Production and Exchange in the Marana Community. Paper presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal.

HENSLER, KATHY NILES, REED, LORI STEPHENS AND **ROBERT J. SPEAKMAN** (2004). Looking at the Mimbres Valley from the West. Paper presented at the 13th Mogollon Archaeology Conference, Sept 30–Oct 2, 2004, Silver City, New Mexico.

HOARD, ROBERT J., DONNA K. ROPER, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2004). Instrumental Neutron Activation Analysis of Central Plains Tradition Pottery from Kansas and Nebraska. Paper presented at the 26th Annual Flint Hills Conference, St. Joseph, Missouri, March 26–28, 2004.

LAGUENS ANDRES, MARTIN GIESSO, MIRTA BONNIN, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, NÉSTOR KRISKAUTZKY, AND BÁRBARA MANASSE (2004). Estudio de Producción y Distribución de la Cerámica Gris-Negra Grabada del Valle de Ambato, Argentina (ca. 300–1000 DC.). [Production and Distribution of Gray-Black Incised Ceramics from the Ambato Valley, Argentina (ca. 300–1000 A.D)]. Paper presented at the XVth National Archaeology Congress, Rio Cuarto, Argentina.

LITTLE, NICOLE C., LAURA J. KOSAKOWSKY, JOHN C. LOHSE, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2004). Early and Late Classic Ceramic Resource Utilization in Northwest Belize. Poster presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal.

ORT, MICHAEL, PAUL R. SHEPPARD, **ROBERT J. SPEAKMAN**, KIRK A. ANDERSON, MARK D. ELSON, AND G. D. SEIBE (2004). Dendrochemical Dating of Tephra Layers. Paper presented at 2004 Fall Meeting of the American Geophysical Union, San Francisco, CA, Dec. 2004.

ROPER, DONNA K., ROBERT J. HOARD, **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2004). Instrumental Neutron Activation Analysis of Central Plains Tradition Pottery from Kansas and Nebraska. Paper presented at the 62nd Annual Plains Anthropological Conference, Billings, Montana.

SHEPPARD, PAUL R., MARK ELSON, MICHAEL ORT, AND **ROBERT J. SPEAKMAN** (2004). Dendrochemical Analysis of Trees Affected by Cinder Cone Eruptions: A New Technique

for Re-analyzing the Sunset Crater Eruption. Paper presented at The Inaugural Symposium of the Archaeological Sciences of America Meeting, Tucson, AZ, Sept 2004.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND ALTAN ÇILINGIROGLU (2004). Trace Element Analysis of Eastern Anatolian Obsidian by ICP-MS, INAA, and XRF. Paper presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, CHRISTOPHE H. DESCANTES, ROBERT H. TYKOT, J. JENNIFER J. THATCHER, CRAIG E. SKINNER, KYRA M. LIENHOP, AND BARRY J. HIGGINS (2004). Laser Ablation ICP-MS Characterization of Archaeological Materials for Provenance-Based Research. Paper presented at The Inaugural Symposium of the Archaeological Sciences of America Meeting, Tucson, AZ, Sept. 2004.

TYKOT, ROBERT H., MICHAEL D. GLASCOCK, **ROBERT J. SPEAKMAN**, MICHEL C. WEISS AND FRANCOIS LORENZI (2004). Prehistoric Obsidian Trade in Corsica (France). Paper presented at 2004 Materials Research Society Fall Meeting, Boston, MA.

WILLIAMS, PATRICK R., DONNA J. NASH, MARY GLOWACKI, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, AND HECTOR NEFF (2004). Using INAA to Assess Wari Ceramic Production and Exchange on the Tiwanaku Frontier. Paper presented at the 44th Annual meeting of the Institute for Andean Studies, Berkeley, CA, Jan. 2004.

2003 (N = 13)

DARWENT, CHRISTYANN, MICHAEL D. GLASCOCK, T. GUIOL, MARK HYLKEMA, M. KENNEDY, HECTOR NEFF, S. NEWSOME, HEATHER RAMSAY, AND **ROBERT J. SPEAKMAN** (2003). Results from the Analysis of Human Remains from a Historical Shipwreck Cemetery, Año Nuevo State Park, CA. Poster presented at the 37th Annual Meeting of the Society for California Archaeology, Sacramento, California.

FARNUM, JULIE, **ROBERT J. SPEAKMAN**, KYRA M. LIENHOP, AND IZUMI SHIMADA (2003). Diet, Status, and Health at Sicán: A Test of ICP-MS as a Tool for Paleodietary Reconstruction. Paper presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

GLASCOCK, MICHAEL D., AND **ROBERT J. SPEAKMAN** (2003). The Status of Obsidian Provenance Research in South America. Paper presented at the 51st International Congress of Americanists, July 2003, Santiago, Chile.

KOLB, MICHAEL J., M. BRIA, AND **ROBERT J. SPEAKMAN** (2003). Teeth of the Wolf: Who Were the Ancient Elymi of Sicily. Paper presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

LIENHOP, KYRA M., **ROBERT J. SPEAKMAN**, AND MICHAEL D. GLASCOCK (2003). Reconstruction of Prehistoric Human Dietary Patterns by Laser Ablation ICP-MS. Poster

presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

LITTLE, NICOLE L., **ROBERT J. SPEAKMAN**, LAURA J. KOSAKOWSKY, AND HECTOR NEFF (2003). Characterization of Mayan Pottery by Complementary Methods: INAA and MD-ICP-MS. Paper presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin, Wisconsin.

NEELY, MICHAEL P., TOM E. ROLL, MICHAEL D. GLASCOCK , AND **ROBERT J. SPEAKMAN** (2003). The Camp Baker Quarries: Lithic Resources in Central Montana. Poster presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

RODRIGUEZ-ALEGRIA, ENRIQUE, AND **ROBERT J. SPEAKMAN** (2003). Analysis of Lead-Based Glazes by ICP-MS: The Case of Glazed Ceramics in Sixteenth-Century Mexico. Poster presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

SPEAKMAN, ROBERT J. (2003). Identification of Fakes in Archaeology by Laser Ablation ICP-MS. Poster presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

SPEAKMAN, ROBERT J. (2003). Archaeological Applications of Laser Ablation ICP-MS. Paper presented at the Missouri Archaeological Society Spring Meeting, Columbia.

SPEAKMAN, ROBERT J., AND MICHAEL D. GLASCOCK (2003). Middle Woodland Obsidian Sources. Paper presented at the Missouri Archaeological Society Middle Woodland Symposium, October 2003, Columbia.

TYKOT, ROBERT H., M. BRANDAGLIA, MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2003). Early Neolithic Obsidian trade in Northern Italy: New Results from Isola del Giglio. Paper presented at the 7th International Conference of the Association for the Study of Marble and Other Stones used in Antiquity, September 15–20, 2003, Thassos, Greece

WILLIAMS, PATRICK R., DONNA J. NASH, MARY GLOWACKI, **ROBERT J. SPEAKMAN**, MICHAEL D. GLASCOCK, HECTOR NEFF, M. R. MORENO, AND J. CLARK (2003). Using INAA to Assess Wari Ceramic Production and Exchange on the Tiwanaku Frontier. Paper presented at the 51st International Congress of Americanists, July 2003, Santiago.

2002 (N = 8)

DIEBOLD, BENJAMIN H, **ROBERT J. SPEAKMAN**, HECTOR NEFF, AND MICHAEL D. GLASCOCK (2002). LA-ICP-MS and the Late Neolithic Pottery of the Amuq Plain, Turkey. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

GLASCOCK, MICHAEL D. AND **ROBERT J. SPEAKMAN** (2002). LA-ICP-MS of European Glass Trade Beads Found in Missouri. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

HIGGINS, BARRY J., HECTOR NEFF, AND **ROBERT J. SPEAKMAN** (2002). An Introduction to Laser Ablation ICP-MS and its Application to the Chemical Characterization of Archaeological Materials. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

SALL, CANDACE A., AND **ROBERT J. SPEAKMAN** (2002). Compositional Analysis of Salado Polychrome Paints. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

SPEAKMAN, ROBERT J. (2002). Analysis of Mesa Verde and Mancos Black-on-White Paints by Laser Ablation ICP-MS. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND CRAIG E. SKINNER (2002). Chemical Differentiation of Obsidian within the Newberry Volcanic Complex by Laser Ablation ICP-MS, INAA, and XRF. Paper presented at the 2002 Annual Meeting of the Geologic Society of America, Denver.

TABARES, A. NATASHA, MICHAEL W. LOVE, MICHAEL D. GLASCOCK, HECTOR NEFF, AND **ROBERT J. SPEAKMAN** (2002). Straight from the Source: Obsidian Prismatic Blades at El Ujuxte. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

TYKOT, ROBERT H., MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2002). Using Laser Ablation ICP Mass Spectrometry to Source Mediterranean Obsidians. Paper presented at the 67th Annual Meeting of the Society for American Archaeology, Denver.

2001 (N = 7)

GLASCOCK, MICHAEL D., AND **ROBERT J. SPEAKMAN** (2001). Comprehensive Analysis of Natural and Man-Made Glass using Instrumental Methods—INAA and LA-ICP-MS. Paper presented at the 222nd ACS National Meeting August 2001, Chicago.

EHRHARDT, KATHLEEN, LARRY D. GRANTHAM, AND **ROBERT J. SPEAKMAN** (2001). Illinois/Chiwere Siouan Interaction in the Late Protohistoric Midcontinent. Poster presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.

EHRHARDT, KATHLEEN, LARRY D. GRANTHAM, AND **ROBERT J. SPEAKMAN** (2001). Investigating Illinois/Chiwere Siouan Interaction in the Late Protohistoric Midcontinent. Paper presented at the 2001 Midwest Conference, La Crosse, Wisconsin.

SALL, CANDACE A., MICHAEL D. GLASCOCK, AND **ROBERT J. SPEAKMAN** (2001). Geochemical Sourcing of Obsidian Artifacts to Support CRM. Paper presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.

SPEAKMAN, ROBERT J. (2001). Laser Ablation ICP-MS as a Tool for Characterization of Archaeological Materials. Paper presented at the 2001 Central States Microscopy and Microanalysis Society Fall Meeting, Columbia, Missouri.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, HECTOR NEFF, AND BARRY J. HIGGINS (2001). Characterization of Archaeological Materials by LA-ICP-MS. Paper presented at the 222nd National Meeting of the American Chemical Society, August 2001, Chicago.

SPEAKMAN, ROBERT J., MICHAEL D. GLASCOCK, AND JACK RAY (2001). The White and the Gray: Geochemical Analysis of Midwestern Cherts. Poster presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.

2000 AND EARLIER (N = 7)

ORTIZ, DAVID O., AND **ROBERT J. SPEAKMAN** (1997). Review of Stabilization Efforts at Fajada Butte. Paper presented at the 1997 Pecos Conference, Chaco Canyon, New Mexico.

SPEAKMAN, ROBERT J. (2000). Change in Mandan and Hidatsa Pottery at Slant Village (32MO26). Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia.

SPEAKMAN, ROBERT J., HECTOR NEFF, MICHAEL D. GLASCOCK (1999). Changes in Pottery Decoration and Clay Resource Acquisition at On-a-Slant Village (32MO26). Paper presented at the 57th Annual Plains Conference, Sioux Falls, South Dakota.

SPEAKMAN, ROBERT J., AND CRAIG M. JOHNSON (1998). The 1997 Archaeological Investigations at Jones Village (39CA3), Campbell County, South Dakota. Paper presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle.

SPEAKMAN, ROBERT J. (1997). Miniature Vessels from On-A-Slant Village (32MO26), Morton County, North Dakota. Paper presented at the 62nd Annual Meeting of the Society for American Archaeology, Nashville.

SPEAKMAN, ROBERT J., HECTOR NEFF, MICHAEL D. GLASCOCK (1997). Preliminary Results of Neutron Activation Analysis of Northern Plains Pottery: Distinctions between Mandan and Hidatsa Pottery. Paper presented at the 55th Annual Plains Conference, Boulder.

SPEAKMAN, ROBERT J. (1996). Temporal Change in Heart River Complex, Middle Missouri Ceramics. Paper presented at the 54th Annual Plains Conference, Iowa City, Iowa.