

Thursday Morning, April 12**Wednesday Evening ■ April 11, 2018**

- [1] OPENING SESSION**  
**FORUM ■ PRESIDENT'S FORUM: WHAT WE HAVE LEARNED**  
**Room:** Marriott Salon 2  
**Time:** 6:30 PM–8:30 PM  
**Moderator:** Tim A. Kohler

**Participants:**

Susan Chandler—Discussant  
 Sonya Atalay—Discussant  
 Junko Habu—Discussant  
 Tim A. Kohler—Discussant  
 Susan Alcock—Discussant  
 Thomas H. McGovern—Discussant  
 Lynne Goldstein—Discussant  
 Ian Hodder—Discussant  
 Jeremy Sabloff—Discussant  
 Sander Van Der Leeuw—Discussant

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- [2] GENERAL SESSION ■ PRECONTACT ARCHAEOLOGY IN SOUTH AMERICA**  
**Room:** Park Tower Suite 8222  
**Time:** 8:00 AM–9:45 AM  
**Chair:** Astolfo Araujo

**Participants:**

8:00 Mercedes Okumura and Rafael Suárez—The First Record of Tigre and Pay Paso Paleoamerican Points in Southern Brazil: Implications for the Early Holocene Settlement of South America  
 8:15 Astolfo Araujo—A Major Hiatus in the Mid-Holocene Archaeological Record of Eastern South America: Reassessing the “Archaic Gap”  
 8:30 Leticia Correa and Astolfo Araujo—Paleoindian Site in Central São Paulo State, Brazil: Bastos Site, Dourado County  
 8:45 Gustavo Politis, Cristian Favier Dubois and Pablo Messineo—The Geoarchaeology of Megamammal Survival in the Argentine Pampas  
 9:00 Caroline Bachelet, Veronica Wesolowski and Levy Figuti—Holocenic Occupations on Central Brazil: The Archaeological Complex Morro Solteiro  
 9:15 Sophia Haller Von Hallerstein, Dorothee Drucker and Kurt Rademaker—Multi-isotopic Paleo-diet Reconstruction in a High Altitude Rockshelter of Southern Peru  
 9:30 Rosicler Silva, Julio Cezar Rubin de Rubin, Maira Barbari and Sibeli Viana—New Perspectives in the Geoarchaeological Context of Hunter-Gatherer Sites from the Beginning of the Holocene, Serranópolis, Brazil

- [3] GENERAL SESSION ■ CENTRAL ASIAN ARCHAEOLOGY**  
**Room:** Taylor  
**Time:** 8:00 AM–9:45 AM  
**Chair:** Amita Gupta

**Participants:**

8:00 Amita Gupta and Vinod Nautiyal—Trans-Himalayan Material Culture of India: Special Reference to Steatite Bead

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- 8:15 Mitch Allen and William B. Trousedale—The Iron Age Culture of Sistan, Afghanistan
- 8:30 Victoria Sluka—Knotting Accuracy & Dimension Variation in Modern Turkmen Carpets
- 8:45 Kyle Olson—Legacy Data and Ceramic Chronologies: The Case of the Gorgan Plain, Northeastern Iran
- 9:00 Deborah Parrish, Jean-Luc Houle, Jamsranjav Bayarsaikhan and Matthew Fuka—Paleodietary Analysis of Xiongnu Individuals in Zuunkhangai, Mongolia
- 9:15 Yuqi Li—3D Hydraulic Modeling of the Ancient Irrigation System at the MGK Site in Xinjiang, China
- 9:30 Narges Bayani—Borderland Processes and the Question of BMAC in NE Iran

**[4] GENERAL SESSION ■ SOUTHWEST ASIA: MESOLITHIC, CHALCOLITHIC AND NEOLITHIC****Room:** Wilson A**Time:** 8:00 AM–9:45 AM**Chair:** Danielle Macdonald**Participants:**

- 8:00 Claudio Cioffi-Revilla and Niloofar Bagheri-Jebelli—A Computational Approach to Initial Social Complexity: Göbekli Tepe and Neolithic Polities in Urfa Region, Upper Mesopotamia, Tenth Millennium BC
- 8:15 Ian Kuijt—Material Geographies of Multi-family Neolithic Households
- 8:30 Antonietta Catanzariti—Ban Qala, a Late Chalcolithic Site in the Mountain Region of Kurdistan, Iraq: A Report from the 2017 Excavation Season
- 8:45 Yorke Rowan and Austin Chad Hill—Droning On: UAV Survey in the Black Desert of Jordan
- 9:00 Emma Jenkins, Samantha Allcock, Sarah Elliott, Carol Palmer and John Grattan—Phytoliths, Geochemistry and Ethnography: A Multi-method Approach for Interpreting the Neolithic Sites of WF16 and 'Ain Ghazal
- 9:15 Danielle Macdonald and Lisa Maher—Every Block of Stone Has a Statue Inside: Epipalaeolithic Engraved Plaquettes and Art at Kharaneh IV
- 9:30 Alan Farahani—Change and Continuity in Agricultural Production in Iraqi Kurdistan, ca. 4000 BCE–1000 CE

**[5] GENERAL SESSION ■ SURVEYS AND SETTLEMENT PATTERNS IN NORTH AMERICA****Room:** Jefferson**Time:** 8:00 AM–9:45 AM**Chair:** Brandon Ritchison**Participants:**

- 8:00 Megan Stroh Messerole and Mark Anderson—Only Soil Deep: Geophysical Contributions to an Excavation at an Oneota Village in Northwest Iowa
- 8:15 Glenn Kolyer—The Bryant Site: Five Prehistoric Loci in the Esopus Creek Drainage
- 8:30 Elic Weitzel, Brian Coddling, Stephen Carmody and David Zeanah—Site Clustering Parallels Initial Domestication in Eastern North America
- 8:45 Adam Wiewel and Rebecca Wiewel—Remote Sensing Investigations of the Arzberger Site (39HU6)
- 9:00 Edward Herrmann, Mackenzie Cory, Katie Hunt, John Flood and Josh Myers—Chronologies of Paleoindian Site Distributions and Raw Material Use in Indiana: An Analysis of State-Level Data
- 9:15 Stefan Brannan—Settlement Scaling in the Eastern Woodlands of the United States, ca. 3500 BC to AD 1700: Size, Monumentality, and Public Space

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- 9:30 Brandon Ritchison—Immigration and Transformation: Local Community Response to the Abandonment of a Neighboring Region

**[6] POSTER SESSION ■ LITHIC ANALYSIS IN SOUTH AND CENTRAL AMERICA****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 6-a Andrew Schroll, Jason Nesbitt, Rachel Johnson and Sadie Weber—Analysis of the Lithic Assemblage from Canchas Uckro (1100–800 BC), Eastern Ancash, Peru
- 6-b Zachary Stanyard—Initial Experimental Analysis of Soft Hammer Techniques in the Maya Lowlands
- 6-c David Reid and William Ridge—Obsidian Procurement and Exchange in Peru: A Social Network Analysis (SNA)
- 6-d Waka Kuboyama—Crafting Process and Usage of “Axe-God” Jade Pendants in Pre-Columbian Costa Rica
- 6-e Kristin Benson, Teresa Franco and Tom Dillehay—Comparative Micro-Usewear and Residue Analyses on Late Pleistocene Unifacial Tools from Huaca Prieta, Peru, and Monte Verde, Chile

**[7] POSTER SESSION ■ ZOOARCHAEOLOGY: MESOAMERICA & SOUTH AMERICA****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 7-a Mary Claudia Avila Peltroche—Camelids Consumption and Utilization at the Archaeological Site of Huayuri, South Coast of Peru
- 7-b Fabiana María Martín, Francisco Juan Prevosti and Luis Alberto Borrero—Cueva Nordenskjöld, Última Esperanza, Chile: A Late Pleistocene Faunal Assemblage
- 7-c Samantha Michell, Jennifer Marla Toyne, Alfredo Narvaez and Victor Vasquez—Ancient Human-Animal Interactions in Chachapoyas Region: Isotopic Analysis of Zooarchaeological Remains from Kuelap, Peru
- 7-d Juan Castro, Mariano Bonomo, Lucio González Venanzi, Francisco Juan Prevosti and Silvia Cornero—New Records of Pre-Hispanic Dogs (*Canis familiaris*) in Argentinean Northeast
- 7-e Gavin Wisner, Katie K. Tappan, Aimee I. Alvarado and Chrissina C. Burke—The Zooarchaeology of Problematic Deposits: Ancient Maya Use of Fauna in Ritual Contexts at Group B, Xunantunich
- 7-f Amy Klemmer—Zooarchaeological Analysis of Fishing Strategies at Rio Chico, Ecuador (OMJPLP-170)
- 7-g Lori Phillips, Erin Thornton and Eleanor Harrison-Buck—Understanding Animal Use at the Wetland Maya Site of Chulub
- 7-h Dominic Bush—Animal Use in the Last Maya Kingdom

**[8] POSTER SESSION ■ CAVES & ROCKSHELTERS****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 8-a Joshua Lockett-Harris—Caves, Ancestors, and the Underworld: Bedrock Manipulation as a Strategy in the Development of Middle Formative Period Maya Socio-political Complexity, Based on Evidence from Ka’Kabish, Northern Belize

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- 8-b Sarah Krantz—Interpreting Palimpsest Rock Art in the North American Southwest
- 8-c Joshua Keene, Tyler Laughlin and Michael Waters—Archaeological Investigations of the Archaic and Paleoindian Occupations at Hall's Cave, Texas
- 8-d Stephen L. Black and Charles Koenig—Sand, Chute, Carts, and Waddles: Eagle Cave and Bonfire Shelter Restoration Project
- 8-e Kyle Riordan, Julie Field and John Dudgeon—Scanning Electron Microscopy and Geoarchaeology of Naihehe Cave, Fiji
- 8-f Richard Nicolas—Using Sacred Landscape Model of Indigenous Cave Use in the Philippines

**[9] POSTER SESSION ■ ARCHAOMETRY I****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 9-a Sophia Maline, Melanie Miller, Jillian Swift and Christine A. Hastorf—Reconstructing Recipes: Stable Isotope Analysis of Food Residues from a Year-Long Cooking Experiment
- 9-b Sanna Lipkin, Titta Kallio-Seppä, Annemari Tranberg, Erika Ruhl and Sirpa Niinimäki—Benefits of CT-Scanning in Study of Post-Medieval Funerary Items
- 9-c Daniel Pierce, Patti Wright and Rachel S. Popelka-Filcoff—Seeing Red: An Analysis of Archaeological Ochre in East Central Missouri
- 9-d Eleanora Reber—From General to Specific: Targeting Freshwater Resources in Pottery Residues Using Compound-Specific Isotope Analysis
- 9-e Neill Wallis, John Krigbaum, George Kamenov and Michael D. Glascock—Pots and People in Motion in Woodland Period Florida
- 9-f Rachael Wedemeyer, Arthur Joyce, Jeffrey Brzezinski and Sarah Barber—Fragments of Identity: A Comparative Study of Terminal Formative Figurines from Coastal Oaxaca, MX
- 9-g Laura Salgán, Gustavo Neme, Sergio Dieguez, Paz Pompei and Adolfo Gil—Geoarchaeology, Geochemical and Spatial Distributions of the Obsidian Source in Southern Mendoza (Argentina): The Case of Coche Quemado Source

**[10] POSTER SESSION ■ ZOOARCHAEOLOGY: THE WEST COAST****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 10-a Thomas Banghart—From Shore to Mountain: Insights into Resource Selection and Processing along the Central California Coast
- 10-b Hope Loiselle—The Historical Ecology of Dolphins and Porpoises off the Oregon and Pacific Northwest Coasts: Contributions from Zooarchaeology
- 10-c Kristine Bovy, Virginia L. Butler, Sarah K. Campbell and Michael A. Etnier—Analysis of Sorting Errors of Animal Remains from Shell Middens: Lessons Learned from the Čixwicən Project
- 10-d Hannah Wellman—Avifaunal Remains from the Palmrose Site (35CT47): Establishing Seasonality and Investigating Endangered Species
- 10-e Kathryn Mohlenhoff—El Niño and Trans-Holocene Trends in Eastern Pacific Fishes: Preliminary Data from Abrigo de los Escorpiones, Baja California
- 10-f Joseph Bryce and Spencer Lambert—Fremont Fishing: New Data from Recent Excavations in Utah Valley

Thursday Morning, April 12**[11] POSTER SESSION ■ ARCHAEOLOGICAL APPROACHES IN GIS: CENTRAL AMERICA****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 11-a Rachel Egan—Modeling Hazard Risk, Vulnerability, Recovery, and Adaptation in Tilarán-Arenal, Costa Rica: An Integrative Approach to Disaster Studies
- 11-b Haylie Ferguson—A GIS Approach to Settlement Patterns and Predictive Modeling in Chihuahua, Mexico
- 11-c Melissa Burham—Minor Temple Groups, Water Management and Community Formation at Ceibal, Guatemala
- 11-d Eric Fries—Testing a Multi-Modal Remote Sensing Approach for Detecting Ancient Maya Sites With Low-Resolution Data
- 11-e Stephen Whittington—Mapping and Spatial Analysis of an Ancient Mixtec Capital in Oaxaca

**[12] POSTER SESSION ■ ARCHAEOLOGICAL APPROACHES IN GIS: OLD WORLD****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 12-a Jennifer Ramsay and Noah Haber—Examining the Concept of Hinterland in Antiquity in Arid Regions of the Levant Using Archaeobotanical Data and GIS Analysis
- 12-b Stephanie Martin—Least Cost Path Analysis of Maritime Routes in the Ancient Aegean
- 12-c Mesfer Alqahtani—GIS Investigations on Stone-Circle Structures in the North of Saudi Arabia

**[13] POSTER SESSION ■ THE PACIFIC ISLANDS****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 13-a Sara Lynn Cramb, Justin Cramb, Haumata Tepania and Justine Tuatai William—The Ngake 001 Site: Surface Mapping and Subsurface Investigations
- 13-b John Blank, Matt Chmura and Sarah Gilleland—Style vs. Function in Polynesian Fish Hook Shank Variation
- 13-c Kevin P. Gilmore, Elizabeth Leclerc, Peter Hille, Hiro Kurashina and James Carucci—Illuminating the Obscure: Using Legacy LiDAR Data to Define and Interpret a WWII Airfield on the Island of Tinian, Commonwealth of the Northern Mariana Islands (CNMI)
- 13-d Haden Kingrey, Matthew Napolitano, Geoffrey Clark and Scott Fitzpatrick—Exploring Manufacturing Variability in Calcareous Sand Tempered Pottery on Yap, Western Caroline Islands
- 13-e Paul Gerard, Matthew Napolitano, Geoffrey Clark and Scott Fitzpatrick—Tracking Changes in Nearshore Ecology over 2000 Years in Southern Yap, Western Caroline Islands
- 13-f Matthew Napolitano, Robert J. DiNapoli, Geoffrey Clark, Ester Mietes and Lauren Pratt—Modeling the Early Settlement of Yap, Western Caroline Islands

Thursday Morning, April 12**[14] POSTER SESSION ■ ARCHAEOLOGY OF COLONIALISM****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 14-a Stephanie Halmhofer—The Blown Glass Beads of Garden Bay, British Columbia
- 14-b Peter Van Dommelen and Alfonso Stiglitz—The S'Urachi Project: Cultural Encounters and Everyday Life around a Nuraghe in Phoenician and Punic Sardinia
- 14-c Patrick McGinley—Geophysical Applications at the Site of Fort Halifax, PA (36DA0008)
- 14-d Julie Wesp, Chelsi Sloten and Felipe Gaitan Ammann—Colonial Funerary Rituals at the Templo San Ignacio in Bogotá, Colombia
- 14-e Raquel Fleskes, Frankie West, Graciela Cabana and Theodore Schurr—Ancient DNA Perspectives on Kinship and Racialized Labor at a 17th Century Delaware Frontier Site
- 14-f Sterling Wright, Cara Monroe, Mary Furlong, James Reeves and Courtney Hoffman—Collaborating with Descendant Communities to Explore the Biological Heritage of Enslaved People at James Madison's Montpelier through Ancient DNA Analysis

**[15] POSTER SESSION ■ MUSEUMS & COLLECTIONS****Room:** Exhibit Hall B South**Time:** 8:00 AM–10:00 AM**Participants:**

- 15-a Christopher Crews, C. L. Kieffer and Magdalena Wantschik—Accuracy of Museum Volunteer Measurements: A Study of Projectile Point Measurements at the Museum of Indian Arts & Culture, New Mexico
- 15-b Stacy Drake, Marla MacKinnon and America Guerra—Exploring Collaborative Curation of North American Human Remains
- 15-c Malu Fleischer and Michael Nielsen—Ersersaaneq Project: Creating Knowledge Through Images
- 15-d Paul Reed and Carolyn Heitman—Making the Most of Salmon Pueblo's Enormous Dataset: The SPARC Project
- 15-e Esther Rimer—Sampling Archaeology at the National Museum of Natural History

**[16] GENERAL SESSION ■ ARCTIC NORTH AMERICA****Room:** Jackson**Time:** 8:00 AM–10:00 AM**Chair:** Aron Crowell**Participants:**

- 8:00 Remi Mereuze and T. Max Friesen—Building a Database to Understand the Architecture of Arctic Wooden House Remains
- 8:15 Aron Crowell—Comparing Archaeology and Oral Tradition at the Tlákwaan (Old Town) Site, Yakutat Bay, Alaska
- 8:30 Lesley Howse, James Savelle and Arthur Dyke—Beach Level Chronology and Paleodemography at Alarniq, Northern Foxe Basin, Arctic Canada
- 8:45 Ariel Taivalkoski—Technological Choice and Human-Animal Relationships: A Bird's Eye View
- 9:00 Alison Harris, Deirdre Elliott, Tatiana Feuerborn, Gunilla Eriksson and Vaughan Grimes—Inuit Sled Dogs in the Contact Landscape: An Isotopic Investigation of Dog Provisioning in 16th–19th Century Labrador, Canada

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- 9:15 Brenna Frasier, James Woollett, Céline Dupont-Hébert, Michael Buckley and Vicki Szabo—Genetic and ZooMS Identification of Marine Mammal Bone from Norse Sites in Iceland and Greenland: Insights into Historic Ecology and Norse Economies
- 9:30 Samantha Walker, Kathryn Kotar, James Savelle and Arthur Dyke—Regional Analysis in Perspective: An Epistemological Assessment for Paleo-Inuit Archaeology
- 9:45 Kyle Forsythe, Pierre Desrosiers, James Savelle and Arthur Dyke—Comparing Lithic Procurement and Use Within the Foxe Basin, Nunavut

**[17] GENERAL SESSION ■ ANDEAN ARCHAEOLOGY: FORMATIVE AND MIDDLE HORIZONS****Room:** Wilson B**Time:** 8:00 AM–9:45 AM**Chair:** Mary Glowacki**Participants:**

- 8:00 Thomas Pozorski, Shelia Pozorski and Rosa Marin Jave—Initial Period Friezes and Architecture at Taukachi-Konkan, Casma Valley, Peru
- 8:15 Mary Glowacki—Wari's Hallowed Ground: Interpreting the Mortuary Complex of Cotocotuyoc, Cuzco, Peru
- 8:30 Jessica Kaplan—Political Economies of the Wari Empire: Resource Use in the Middle Horizon, Peru
- 8:45 Rebekah Montgomery—Ephemeral Objects: An Alternative Perspective on the Maquetas of San Jose de Moro
- 9:00 Aleksandra Laszczka—Pre-Columbian textiles from Castillo de Huarney: Fabric Structures and Iconographic Motifs as Indicators of Cultural Influences
- 9:15 Katharine Davis—Libations and Meat: A View of the Construction of Social Capital in Tiwanaku Residential Spaces through Ceramics and Faunal Material
- 9:30 Jeanette Nicewinter—Abbreviated Imagery on Cajamarca Cursive Ceramics

**[18] GENERAL SESSION ■ SURVEY, REMOTE SENSING AND SITE FORMATION IN MAYA ARCHAEOLOGY****Room:** Johnson**Time:** 8:00 AM–10:15 AM**Chair:** Richard Paine**Participants:**

- 8:00 Akira Ichikawa—Intraregional Interaction in the Zapotitan Valley, El Salvador: The San Andres Regional Center and Joya de Ceren Village
- 8:15 Jason Paling, Marx Navarro Castillo and Justin Lowry—Underwater Archaeological Survey of Freshwater Lagoons in the Lacanja Basin, Chiapas, Mexico
- 8:30 Kenichiro Tsukamoto, Fuyuki Tokanai and Toru Moriya—Building a High-Resolution Chronology: A Case from the Maya Archaeological Site of El Palmar, Mexico
- 8:45 William Ringle, Tomás Gallareta Negrón, Ken Seligson and David Vlcek—Hidden in the Hills No Longer: LiDAR Coverage in the Puuc Region of Yucatan, Mexico
- 9:00 Marisol Cortes-Rincon, Jonathan Roldan, Cady Rutherford, Byron Smith and Walter Tovar Saldana—Utilization and Field Testing of LiDAR in the Maya Hinterlands
- 9:15 Stanislava Romih and Rafael Guerra—Unleashing the Beast: New Methodologies in Exploring Peri-abandonment Deposits in the Maya Lowlands

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- 9:30 Santiago Juarez—The Creation of Late Preclassic Urban Landscapes at the site of Noh K'uh in Chiapas, Mexico
- 9:45 Erin Thornton, Richard Hansen and Edgar Suyuc-Ley—Ancient Maya Diet, Environment, Animal Use and Exchange at El Mirador: The Zooarchaeological Evidence
- 10:00 Richard Paine, Richard Hansen, Carlos Morales-Aguilar and Kevin Johnston—Issues Reconstructing the Ancient Population of El Mirador, Guatemala

**[19] GENERAL SESSION ■ MESOAMERICA: ARCHAEOLOGY OF THE GULF AND PACIFIC COASTS****Room:** Delaware A**Time:** 8:00 AM–10:15 AM**Chair:** María Andrea Celis Ng Teajan**Participants:**

- 8:00 Mikael Fauvelle—A Tale of Two Peripheries: Recent Excavations at Fracción Mujular, Chiapas, Mexico
- 8:15 Virginia Arieta Baizabal—Estudio arqueológico preliminar de un posible sitio olmeca: Antonio Plaza, Veracruz
- 8:30 Billie Follensbee—Is That Awl? Olmec Jade Artifacts as Elite Tools, Ornaments, and Inalienable Goods
- 8:45 Bradley Ensor—The Western Chontalpa: What's in the Archaeological "Black Hole" of the Mesoamerican Gulf Coast?
- 9:00 Hirokazu Kotegawa—¿Cuáles son los monumentos olmecas del sitio Estero Rabón?
- 9:15 Marlen Hinojosa, Claudia Garcia-Des Lauriers and Matthew Des Lauriers—Los Horcones, Offering 1: The Archaeology of Music and Ritual on the Pacific Coast of Chiapas
- 9:30 Alfredo Saucedo—Maíz y olmecas: una truculenta trayectoria
- 9:45 Alberto Ortiz Brito—Rediscovering the San Martín Pajapan Volcano in the Gulf Coast of México: An Analysis of Its Archaeological Context
- 10:00 María Andrea Celis Ng Teajan—Arroyo Pesquero y su "otra" ofrenda

**[20] GENERAL SESSION ■ RESEARCH FROM OCEANIA AND THE AUSTRALIAN CONTINENT****Room:** Maryland C**Time:** 8:00 AM–10:15 AM**Chair:** Thegn Ladefoged**Participants:**

- 8:00 Katherine Woo—Shifting Palaeoeconomies at the Rockshelter Site Madjedbebe, Australia
- 8:15 Justin Cramb—Manihiki & Rakahanga: Archaeological Research on a Dual-Atoll Cluster in East Polynesia
- 8:30 Reno Nims—Little Ice Age Impacts on Traditional Māori Fisheries: Preliminary Results from North Island, New Zealand
- 8:45 Thegn Ladefoged, Dion O'Neale, Alex Jorgensen, Christopher Stevenson and Mark McCoy—The Dynamics of Māori Socio-political Interaction: Social Network Analyses of Obsidian Circulation in Northland Aotearoa
- 9:00 Annette Oertle—Thermal Processes on Tropical Archaeological Shell: An Experimental Study
- 9:15 Summer Moore—Continuity and Change in Early Colonial-Era Hawai'i: An Examination of Foreign Artifacts from Nu'alolo Kai, Kaua'i Island
- 9:30 Nick Belluzzo—"The Other Half of the Sky": Competitive Anarchy in Contact-Era Palau



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- 9:45 Anne Ford—Meet the Neighbours: Evidence for Interaction between the Austronesian Lapita Culture and Non-Austronesian Communities in Papua New Guinea
- 10:00 Rona Ikehara-Quebral, Michael Pietrusewsky and Michele Toomay Douglas—Cranial Vault Modification in the Mariana Islands

**[21] GENERAL SESSION ■ MIGRATION, TRADE AND MOBILITY IN NORTH AMERICAN PREHISTORY**

**Room:** Taft

**Time:** 8:00 AM–10:30 AM

**Chair:** Catherine (Katie) Cottreau-Robins

**Participants:**

- 8:00 Rachel Cajigas—The Early Agricultural Period at La Playa, Mexico, A Geoarchaeological Investigation
- 8:15 Stuart Fiedel—Chasing Red Herrings Down the Kelp Highway: Paleoindian Migration via the Pacific Coast is Unproven and Improbable
- 8:30 Thatcher Rogers—The Northern Periphery of the Casas Grandes World: An Assessment and Update of the Animas Phase
- 8:45 Edward Knell—The Late Paleoindian Cody Complex Component at Lamb Spring, Colorado
- 9:00 William Ankele—An Early Archaic Melting Pot in the Southern Rocky Mountains: Early Holocene Mobility and Settlement Patterns in the Gunnison Basin, Colorado
- 9:15 Delaney Cooley—Investigating the Emergence of Ute Culture on the Uncompahgre Plateau, Colorado
- 9:30 Catherine (Katie) Cottreau-Robins, Jacob Hanley, Paige Fleet, Christopher McFarlane and Brandon Boucher—Bay of Fundy Provenance for Pre-contact Copper Artifacts from the Maritime Peninsula, Northeastern North America
- 9:45 Douglas Bamforth and Kristen Carlson—Oneota Expansion and Ethnogenesis on the Eastern Great Plains
- 10:00 Christopher Schwartz and Andrew Somerville—Local Origins, Distant Connections: Exploring Prehispanic Macaw Exchange through Radiogenic Strontium Isotope Analysis at Paquimé, Chihuahua, Mexico
- 10:15 Lauren Bussiere and Nadya Prociuk—Northern Gulf Coast Trade in the Mesoamerican Postclassic: The Evidence from Brownsville

**[22] GENERAL SESSION ■ MATERIAL CULTURE ANALYSIS IN THE NORTHEAST**

**Room:** Hoover

**Time:** 8:00 AM–10:30 AM

**Chair:** Ingrid-Morgane Gauvin

**Participants:**

- 8:00 William Engelbrecht—Iroquoian Chunkey
- 8:15 Samantha Taylor—Looking Through Dirty Dishes: The Preliminary Results of a Ceramic Analysis at Pandenarium (36ME253)
- 8:30 Ingrid-Morgane Gauvin—Technological Know-How and Lithic Production in the Mid-Hudson Valley: Observations from the Terminal Archaic
- 8:45 John Creese—Iroquoian Longhouses and Sociotechnical Assemblages
- 9:00 Kathleen Bragdon—Re-evaluating Wampum: Wearing Wealth in Native Southern New England
- 9:15 Daniel Snyder, Kathryn Whalen and Douglas Perrelli—Using Debitage Analysis, MANA, and Landscape Utilization to Illuminate the Archaic-Early Woodland Transition in Western New York

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- 9:30 Lucy Harrington—Measuring Mobility by Proxy: Use and Maintenance of Lithic Tools in Pennsylvania from Paleoindian to Middle Archaic Times
- 9:45 Jasmine Gollup, Robert Wall, Patrick Walters and Timothy Sara—Cobble Reduction and Tool Manufacturing along the Atlantic Coastal Plain: An Example from Prince George's County, Maryland
- 10:00 Amy Fox—Conceptualizing Lithic Technological Variation in the Late Archaic Period: A Case Study of the Broadspear Assemblage Type
- 10:15 Lauren Herckis—Archaeology as Anthropology: Chaîne Operatoire and the Analysis of Contemporary Technologies

**[23] GENERAL SESSION ■ HISTORIC ARCHAEOLOGY IN THE OLD WORLD****Room:** Maryland A**Time:** 8:00 AM–10:30 AM**Chair:** Rachel Brody**Participants:**

- 8:00 Scott Kirk and Michael J. Kolb—A Mosque and a Castle: The Discovery of the Salemi Mosque
- 8:15 Carina Bramstång Plura and Petra Nordin—Archaeological Traces of Consumption of Colonial Goods in Eighteenth Century Gothenburg on the West Coast of Sweden
- 8:30 Janet Kay—Migration, Monuments, and Memory in Fifth-Century Britain
- 8:45 Susan-Alette Dublin—(Re)Building the Present, (Re)Claiming the Past: Architecture and Social Memory at the Medieval Monastery of Psalmodi, Gard, France
- 9:00 Elise Alonzi—Traveling Monastic Paths: Mobility and Religion in Medieval Ireland
- 9:15 Alicia Sawyer—Beyond a Record of Environmental Change: The Influence of Variability in Peat Composition on the Archaeological Record in Viking Age Iceland
- 9:30 Manon Géraud, Florian Téreygeol and Florent Hautefeuille—An Integrated Approach to Ceramic Material: An Example of Interdisciplinary Research on Commingeoise, a French Late Medieval Ware (13th–16th c.)
- 9:45 Rachel Brody and Rebekah Mills—Castles in Communities: Recent Findings in the Field
- 10:00 Aurelien Tafani, Andrea Vianello, Robert H. Tykot and Emanuela Gualdi—Reconstructing Individual Life Histories in Early Medieval Italy through Serial Analysis and Compositional Analysis of Bones and Teeth
- 10:15 Aidan O'Sullivan—Experimental Archaeology and Investigating Houses in the Past

**[24] GENERAL SESSION ■ EAST ASIA: THE PROTOHISTORIC AND HISTORIC PERIODS****Room:** Maryland B**Time:** 8:00 AM–10:30 AM**Chair:** Wen Yin Cheng**Participants:**

- 8:00 WengCheong Lam—Early Globalization of the Han Empire in Its Southern Frontier and the Expansion of Iron Economic Network
- 8:15 Wen Yin Cheng and Chen Shen—Two Mould Types for All the Vessels: Correlating Casting Mould Forms to the Vessel Forms Produced during the Shang Dynasty
- 8:30 Alex Sweeney, Kara Bridgman Sweeney, Naoki Higa, Takumi Kishimoto and Naho Ishiki—Sustainability and Tradition in Anindo Village, Okinawa, Japan

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- 8:45 Dewei Shen—Inscribing Behaviors on Oracle Turtle Plastrons: A New Method to Analyze Tributary Networks of Late Shang China (c. 1250 BCE–1046 BCE)
- 9:00 Xu Yingyuan, Zhao Xiaowei, Li Zongmin and Jin Zhengyao—Research on Materials and Manufacturing Process Used for the Imperial Inlaid Jade Lacquered Wooden Coffin from the Royal Mausoleum No.2 of the Vassal King of Jiangdu State of the Western Han Dynasty in China
- 9:15 Li Zhang—The Landscape of China's Participation in the Bronze Age Eurasian Network
- 9:30 Yongshan He and Chen Shen—What Can Artifacts Do: A Case Study of Miniaturized Architectural Models in Early China Tombs
- 9:45 Koji Mizoguchi and Junko Uchida—A New Approach to the Anyang Hsi-Pei-Kang Late Shang Royal Cemetery: A Social Archaeological Perspective
- 10:00 Tricia Owlett, Yu Itahashi, Minoru Yoneda, Leo Aoi Hosoya and Sun Zhouyong—Late Neolithic and Early Bronze Age Agro-Pastoral Diets at Shimao, Northern Shaanxi Province, China: Stable Carbon and Nitrogen Isotope Analysis of Human and Faunal Remains
- 10:15 Richard Ciolek-Torello, Jeffrey Altschul, B. Gunchinsuren, T. Amgalantugs and John Olsen—Baibalyk: An Early Fortified Town and Trading Center in a Nomadic Pastoral Landscape on the Mongolian Steppe

**[25] GENERAL SESSION ■ IDENTITY, GENDER AND ETHNICITY****Room:** Washington Room 6**Time:** 8:00 AM–10:30 AM**Chair:** Meghan Cartier**Participants:**

- 8:00 Veronica Perez Rodriguez and Corina Kellner—Infancy and Breastfeeding at Cerro Jazmín: Isotopic Data from a Late-Terminal Formative Population in the Mixteca Alta, Oaxaca
- 8:15 Paula Sabloff—The Political Agency of Pre-modern State Royal Women
- 8:30 Katherine Pompeani—Reevaluating Early Bronze Age Masculinities: Skeletal and Mortuary Analysis of Transgenderism at Ostojčevó, Serbia
- 8:45 Kiri Hagerman—Changing Representations of Gender in Ceramic Figurines during the Emergence of the Teotihuacan State
- 9:00 Erika Ruhl and Sanna Lipkin—Though we walk through the valley of the shadow of death: Co-burials and Identity in Pre-modern Northern Finland
- 9:15 Claudia Martínez Cadena—Arqueología de la infancia en la Frontera Norte Mesoamericana durante el Epiclásico. El caso de El Ocote, Aguascalientes
- 9:30 Daniel Hansen—Death and Identity at Monte Albán
- 9:45 Jonathan White—Disability and Accommodation in the Eastern Mediterranean: Case Studies from New Kingdom Egypt and Classical Greece
- 10:00 Soraya Alencar—Aging and Funerary Practices at Monte Alban, Mexico
- 10:15 Meghan Cartier—Naked Huastecs, Anxious Aztecs: Male Nudity and Gender Identity in Aztec and Huastec Sculpture

**[26] GENERAL SESSION ■ MIDWESTERN NORTH AMERICA: VILLAGE FARMERS****Room:** Wilson C**Time:** 8:00 AM–10:45 AM**Chair:** David Pollack**Participants:**

- 8:00 Mark Schurr and Madeleine McLeester—Native Prairie: The Kankakee Protohistory Project and Ongoing Excavations at the Terminal Prehistoric Middle Grant Creek Site in Northern Illinois

Thursday Morning, April 12

- 8:15 Jeremy Skeens—Sifting through the Sherds: An In-Depth Look at the Ceramic Assemblage from Woodpecker Cave (13JH202)
- 8:30 Angela Cooper—Mounds, Museum Visitors, and You (the Archaeologist)
- 8:45 Robert Jeske and Katherine Sterner—Early Oneota Longhouses in Southeastern Wisconsin
- 9:00 Christina Friberg—Think Locally, Act Globally: How a Local Perspective Informs the Broader Narrative of Mississippianization in the American Midwest
- 9:15 Richard Edwards and Robert Jeske—Maize's Role in the Diets of Late Prehistoric People Living in the Prairie Peninsula
- 9:30 Jeffery Kruchten—Thunder, Lightning, Wind, and Rain: Exploring Engagements with Elemental Entities in the Closing of Emerald
- 9:45 David Pollack and A. Gwynn Henderson—The Middle Ohio Valley Fort Ancient Transformation as Viewed from Fox Farm
- 10:00 Marcus Schulenburg—Building Village Communities: Early Fort Ancient Villages in the Ohio Valley
- 10:15 Andrea Alveshere—Burning Down the House: Evidence for Controlled and Uncontrolled Structure Fires among the Late Woodland and Mississippian Settlements at the Orendorf Site in Fulton County, Illinois
- 10:30 Andrew Upton—Conflict, Migration, and the Transformation of Network Interrelationships in Mississippian West-Central Illinois: A Multilayer Social Network Analysis

**[27] GENERAL SESSION ■ THE ANCESTRAL PUEBLO PERIOD****Room:** Madison A**Time:** 8:00 AM–10:45 AM**Chair:** Michelle Turner**Participants:**

- 8:00 Michelle Turner—The Politics of Mud, Masonry and Landscape at the Aztec North Great House
- 8:15 Samantha Linford—Design Analysis, Social Identity and Ancestral Pueblo Migration: Southwest Colorado to Northern New Mexico
- 8:30 Danny Sosa Aguilar and Bernardo Archuleta—Understanding the Landscape and Material Sources through Community Partnership in Abiquiú, New Mexico
- 8:45 Matthew Schmader—Evolutionary Change in Household Architecture, Settlement Patterns, and Subsistence Technology: A 4000 Year-Long Record from the Middle Rio Grande Valley, New Mexico
- 9:00 Alexandra Covert—From Water to Land: Analysis of Prehistoric Shell from Wupatki Pueblo
- 9:15 Michael L. Terlep—Cup and Channel Petroglyphs and Ancestral Puebloan Migration
- 9:30 Kaitlyn E. Davis—Smoking Customs and Plains-Pueblo Interaction in the Southwest Border Pueblos
- 9:45 Laura Ellyson, Tim A. Kohler and Catherine Cameron—Quantifying Inequality among Ancestral Pueblo Households
- 10:00 Timothy de Smet and Sean Field—Remote Sensing to Identify Chaco Roads: A Case Study of the North Road
- 10:15 Zachary Cooper—Developmental Period Migration in the Northern Rio Grande
- 10:30 Theodore Tsouras, William Bryce and Michael L. Terlep—Becoming Virgin in Jenny Clay: An Analysis of Settlement Evolution and Kayenta Intrusion in Southern Utah

Thursday Morning, April 12**[28] GENERAL SESSION ■ CLASSIC MESOAMERICA: LANDSCAPE, MONUMENTALITY AND HOUSEHOLD ARCHAEOLOGY****Room:** Harding**Time:** 8:00 AM–10:45 AM**Chair:** Antonieta Rivera**Participants:**

- 8:00 Anais Levin, John Walden and Jaime Awe—Lithic Tool Use and Production in an Ancient Maya Neighborhood
- 8:15 Robyn Dodge—Ongoing Household Research at Hun Tun: An Ancient Maya Hinterland Settlement in Northwestern Belize
- 8:30 Lorraine Williams-Beck—Ballcourts, Towers, and Urbanism in the Chenes region, Campeche
- 8:45 Cynthia Kristan-Graham—The Poetics and Politics of Acoustics at Chichen Itza, Yucatan, Mexico
- 9:00 Laura Levi, Christian Sheumaker and Sarah Boudreaux—Pathways and the Power of Organizational Process: Defining Polity at Wari Camp, Belize
- 9:15 Dawn Crawford, Brigitte Kovacevich and Michael Callaghan—Terminal Classic Residential Groups at Holtun, Guatemala
- 9:30 Tiffany Lindley—Examining Everyday Lives: Non-Elite Maya Households and the Terminal Classic Collapse
- 9:45 Renee Collins and Rafael Guerra —Rising from the Bush: Investigations of Elite Households Adjacent to Site Cores in the Belize Valley
- 10:00 Alex Kara—Scrutinizing Theories of Maya Collapse with the CHAAHK Spatial Simulation Model
- 10:15 Zachary Nissen—A Monumental Afterlife: Reconfiguration and Reuse at Aventura, Belize
- 10:30 Antonieta Rivera—The Architectural and Urban Design Principles of Tenochtitlan

**[29] GENERAL SESSION ■ PREHISTORIC AND PROTOHISTORIC RESEARCH FROM EUROPE****Room:** Truman**Time:** 8:00 AM–11:00 AM**Chair:** Deniz Kaya**Participants:**

- 8:00 Knut Ivar Austvoll—Seaways to Complexity. Sociopolitical Strategies in Northwestern Scandinavia in the Early Bronze Age
- 8:15 Robert Brunswig, Pawel Valde-Nowak and Michael Kimball—European and North American Mountain Archaeology and the Concept of Transhumance Applied to the Prehistory of Colorado's Southern Rocky and Poland's Tatra Mountains
- 8:30 Ladislav Smejda and Anna Pankowska—Reconfiguring Normative Funeral Rite in European Prehistory: Second Thoughts on Secondary Manipulation of Human Remains
- 8:45 Peter Schauer, Kevan Edinborough, Stephen Shennan, Andrew Bevan and Mike Parker Pearson—Explaining Variation in the Scale of Neolithic Quarry and Mine Production
- 9:00 Lindsey Büster—Death, Dying and Horlicks: Structured Deposits as Problematic Stuff in European Prehistory
- 9:15 Rick Schulting, Petrus le Roux, Yee Min Gan, Gary Lock and Chris Gosden—The Ups & Downs of Iron Age Animal Management on the Oxfordshire Ridgeway, Southern England
- 9:30 Laurence Ferland—Substances in Transition: Tell Construction in Chalcolithic Bulgaria

Thursday Morning, April 12

- 9:45 Jess Beck, Colin Quinn and Horia Ciugudean—From Mounds and Museums: Building a Bioarchaeology of the Early Bronze Age in the Apuseni Region of Transylvania
- 10:00 Elizabeth Colantoni, Gabriele Colantoni, Serena Cosentino, Maria Rosa Lucidi and Gianfranco Mieli—The Copper Age in Apennine Central Italy and the San Martino Site at Torano di Borgorose (Rieti, Italy)
- 10:15 Derek Hamilton, Kerry Sayle, Colin Haselgrove and Gordon Cook—Application of Multi-Isotopic Analysis ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ , and  $\delta^{34}\text{S}$ ) to Examine Mobility and Movement of People and Animals within an Iron Age British Society
- 10:30 Eric Harkleroad—New Perspectives on Warfare in the Iron Age of Wessex
- 10:45 Deniz Kaya—Burning the House: The Importance of Excavation Methods in the Study of Space and Place in the Neolithic Household. A Case Study from Neolithic Bulgaria (6500–600 BC)

**[30] GENERAL SESSION ■ SOCIOPOLITICAL ORGANIZATION AND ARCHITECTURE IN MAYA ARCHAEOLOGY**

**Room:** Thurgood Marshall Ballroom East

**Time:** 8:00 AM–11:00 AM

**Chair:** Zoe Rawski

**Participants:**

- 8:00 Tatiana Zelenetskaya Young—Architecture as an Expression of Maya Political Organization in the Cochuah Region, Quintana Roo during the Early Terminal Classic: The Perspective from Non-primary Sites
- 8:15 David Small—Limited Territorial Control and Incomplete Political Economies in Small States: A Look at the Classic Maya and Classic Greek
- 8:30 Aliénor Letouzé—The “Sistema 7 Venado”, a Little-known Ceremonial Center at Monte Albán, Oaxaca: A Study of Its Architectural and Ritual Implications
- 8:45 Jerald Ek, Ricardo Armijo Torres, William Folan and Hubert Robichaux—All Politics Isn't Local: The Role of Oxpemul in Classic Maya Geopolitics
- 9:00 Tomás Gallareta Cervera and Brett A. Houk —A Tale of Two Cities: A Comparison between Preclassic and Classic Formation of Two Maya Cities
- 9:15 Diane Slocum and Jaime Awe—Contextualizing Xunantunich in the Late Classic Belize Valley through Investigations of Structure A9
- 9:30 Zoe Rawski—Monumental Displays: Ritual Performance and Preclassic Architecture at Early Xunantunich, Belize
- 9:45 Steve Fox and Jaime Awe—The Bonds that Bind Us: The Analysis of Terminus Groups in the Belize River Valley
- 10:00 Mario Borrero—The Archaeology of the Southern Belize Region in Context
- 10:15 Maline Werness-Rude and Kaylee Spencer —A Good Footing: The Importance of Plaza Design in the Northern Maya Lowlands
- 10:30 Byron Smith and Marisol Cortes-Rincon—Sub-tropical Agronomy on a Variable Landscape: Exploring Classic Maya Farming through Geotechnical Design and the Distribution of Edaphic Variables
- 10:45 Anthony DeLuca—From Cooperation to Competition: An Architectural Energetics Analysis of Labor Organization for the Construction of Circle 2 at Los Guachimontones, Jalisco, Mexico

Thursday Morning, April 12**[31] GENERAL SESSION ■ HIGHLAND MESOAMERICA****Room:** Washington Room 1**Time:** 8:00 AM–11:00 AM**Chair:** Nadia Johnson**Participants:**

- 8:00 Nezahualcoyotl Xiuhtecutili, Daniel Pierce and Michael D. Glascock—Tlaxcallan Pottery Manufacture and Restricted Networks
- 8:15 Lorena Medina Martínez and Raúl Barrera Rodríguez—Hallazgo del Templo de Ehecatl Quetzalcoatl de México-Tenochtitlan
- 8:30 Tom Froese and Linda Manzanilla—A Network Model of Co-Rulership and Community Ritual in Teotihuacan: From Neighborhoods to Districts
- 8:45 Charles Knight—Ceramics, Ground Stone and Miscellaneous at the Zaragoza-Oyameles Obsidian Quarry in Puebla, Mexico
- 9:00 Thania Ibarra and Aurelio López Corral—A Technological Approach of Textile Production in Late Postclassic Tlaxcallan
- 9:15 Aurelio López Corral—Where Is Camaxtli? Assessing the Iconography of Tlaxcallan Collective Government
- 9:30 Nick Simpson and Christopher T. Fisher—Using LiDAR to Map an Ancient Purépecha Water Management System in ArcGIS
- 9:45 Edwin Harris and Christopher T. Fisher —GIS Analysis of the Road Network at the Postclassic Purépecha Site of Angamuco, Mexico
- 10:00 Marc Marino, Lane Fargher, Nathan Meissner, Verence Heredia Espinoza and Richard Blanton—Commercialization, Consumption, and Political-Economic Strategies in Late Postclassic Mesoamerica: A Comparative Study of Access to Projectile Points at Tlaxcallan and Santa Rita Corozal
- 10:15 Charles Stapleton and Maria Stapleton—Tlaloques, Tiemperos, and Trees: Cultural Models of Nature in Central Mexico
- 10:30 Angel González López—The Imperial Stone Sculpture of Tenochtitlan: Changes and Organization
- 10:45 Nadia Johnson—Obsidian Exchange and Use in Early Formative Chalcatzingo

**[32] GENERAL SESSION ■ AFRICAN ARCHAEOLOGY****Room:** Lincoln 2**Time:** 8:00 AM–11:15 AM**Chair:** Caroline Arbuckle MacLeod**Participants:**

- 8:00 Heba Abdelsalam—Implementing American Interpretative Methods for Better Preservation of a Cultural Heritage Site (Case Study: Mallawi Museum, Minya, Egypt)
- 8:15 Adrienne Daggett and Lu-Marie Fraser—Subsistence Technology in Early Iron Age Botswana
- 8:30 Dela Kuma—Foodways in Atlantic Era West Africa – Ghana: Towards an Archaeology of Daily Life
- 8:45 Thomas Huffman—Excavations at Great Zimbabwe: Commoner Housing versus Elite Enclosures
- 9:00 Dil Basanti—From Building to Connecting: Shifting Portraits of Complexity in Ancient Aksumite Monument Construction (50–400 AD)
- 9:15 Kenneth Aitchison—Who Works in African Archaeology?
- 9:30 Jay Silverstein and Hamedy Mashaly—Sacred and Profane Aspects of Water Management in Ancient Thmuis, Egypt
- 9:45 Michael Tritsch—Banqueting with Tutankhamun: A Case Study in Determining the Function and Meaning of an Unprovenanced Artifact

Thursday Morning, April 12

- 10:00 Grant McCall and Theodore Marks—Beer in the Desert: Archaeological, Ethnohistoric, and Experimental Perspectives on Early Beer Brewing in the Central Namib Desert, Namibia
- 10:15 Carl Walsh, Justin Yoo and Paul van Pelt—The Current State of Egyptology: An International Survey and Discussion
- 10:30 Caroline Arbuckle MacLeod—Ethnoarchaeology in Egypt's City of the Dead
- 10:45 Madeleine Bassett—Religious Conversion and Ritual Practice in the Horn of Africa: A Case Study from Islamic-Period Djibouti (ca. AD 800–1200)
- 11:00 Timpoko Hélène Kienon-Kabore and Vincent Serneels—La Metallurgie Ancienne du Fer de la Zone 4000 de Siola (Kanisasso, Zone d'Odienné, Nord-ouest de la Côte D'Ivoire)

**[33] GENERAL SESSION ■ ICONOGRAPHY, SYMBOLISM AND IDENTITY IN MESOAMERICA****Room:** Washington Room 3**Time:** 8:00 AM–11:15 AM**Chair:** Kathryn Math**Participants:**

- 8:00 Kathryn Math—Fang & Feather: The Origin of Avian-Serpent Imagery at Teotihuacan and Symbolic Interaction with Jaguar Iconography in Mesoamerica
- 8:15 Diana Zaragoza—Un acercamiento al pensamiento simbólico de los Huastecos, siglos XV y XVI
- 8:30 Wendy Bacon—The Dwarf Motif in Classic Maya Monumental Iconography: A Spatial Analysis
- 8:45 James Kinsman and David Asher—Evidence of Meteor Shower Outbursts Recorded in the Classic Maya Hieroglyphic Script Using Orbital Integrations
- 9:00 Michael Biggie, John Walden, Jaime Awe, Rafael Guerra and Julie Hoggarth—The Shell Game: Maya Cosmology as Reflected in Recent Discoveries at Tutu Uitz Na
- 9:15 Michael Callaghan, Brigitte Kovacevich, Rachel Gill and Karla Cardona—Preclassic Maya Ritual at Holtun, Guatemala: Analysis and Interpretation of the E-Group Architectural Compound
- 9:30 Chantal Huckert—Una iconografía estelar en figurillas y esculturas de las culturas del Clásico del Centro de Veracruz
- 9:45 Charles Cheek—Male Court Dress on Late Classic Maya Vases
- 10:00 Catherine Popovici—Bricks and Mortar: The Concealed Politicization of Fired Clay Adobe at Comalcalco, Tabasco
- 10:15 Dmitri Beliaev, Alexandre Tokovinine and Milan Kovac—Ballgame, Ritual and Monument Reutilization at the Ancient Maya Site of Uaxactun
- 10:30 Jeb Card—Reassessing Classic Maya Identity and the Southern Edge of Mesoamerica
- 10:45 Stephanie Lozano—Teotihuacan References Found within Classic Maya Inscriptions
- 11:00 Nelda Issa Marengo—Warriors and Violence in the Iconography of Chichén Itzá

**[34] GENERAL SESSION ■ COASTAL AND ISLAND ARCHAEOLOGY****Room:** Thurgood Marshall Ballroom South**Time:** 8:00 AM–11:15 AM**Chair:** Stephanie Ostrich**Participants:**

- 8:00 Canan Cakirlar, Francis Koolstra, Christian Kuchelmann and Salima Ikram—Marine Turtle Consumption: From Ancient Taboo to Conservation Management



Thursday Morning, April 12

- 8:15 Christopher Wolff and Donald Holly—Colonizing the Edge: The Maritime Archaic Settlement and Occupation of Eastern Newfoundland
- 8:30 Jessica Watson—Martha's Vineyard Beach Economy: Scavenged Seals and Washed-up Whales at the Frisby Butler Site
- 8:45 Brittany Mistretta and Jonathan Hanna—Breadth of Fresh Air: A Continued Examination of the Reversed "Crab-Shell Dichotomy" in Grenada's Pre-History
- 9:00 Georgia Andreou—Coastal Erosion Management in Archaeology: Turning Challenges into Opportunities
- 9:15 Todd Koetje—Leukoma Seasonality and Maturity at WH-55, Implications for the Lacarno Beach Phase in the Pacific Northwest
- 9:30 Thaddeus Bissett, Martin Walker, Sean Taylor and Michael Russo—The Utility of Public LiDAR Data for Detecting and Documenting Low-Relief Archaeological Sites: A Case Study from the Pockoy Island Shell Rings, Charleston County, South Carolina
- 9:45 Christian K. Madsen, Jette Arneborg, Ian Simpson, Michael Nielsen and Cameron Turley—(Almost) Making It in the Margins: Medieval Norse Adaptation to the Arctic Fjord Environments
- 10:00 Marisa Afonso—Chronological Investigations at Coastal Shell Mounds, Southeastern Brazil
- 10:15 Christopher Troskosky, Erika Ruhl, Sarah E. Hoffman, Torill Christine Lindstrøm and Ezra Zubrow—A Small Rock Holding Back the Waves
- 10:30 Carola Flores-Fernandez, Veronica Alcalde, Laura Olguin, Jimena Torres and Diego Salazar—Shell Fishhooks on *C. chorus* Mussel Shell (7500 to 4500 Years BP) from the Atacama Desert Coast (Chile)
- 10:45 Seth Brewington—Fowling and Food Security in the Faroe Islands
- 11:00 Stephanie Ostrich—CITIZAN's Digital Toolkit: Citizen Scientists Recording England's At-Risk Coastal Archaeology

**[35] GENERAL SESSION ■ LANDSCAPE AND ECOLOGY IN THE SOUTHEASTERN UNITED STATES****Room:** Lincoln 4**Time:** 8:00 AM–11:15 AM**Chair:** Nicholas Triozzi**Participants:**

- 8:00 Isabelle Lulewicz, Neill Wallis and Victor Thompson—Village Aggregation and Native Subsistence Practices at a Middle Woodland Mound Center, Gulf Coast Florida, USA
- 8:15 Katharine Napora, Victor Thompson, Jeff Speakman and Alexander Cherkinsky—Establishing a Multimillennial Dendrochronological Sequence in the Atlantic Southeast, USA
- 8:30 J. M. Adovasio, C. A. Hemmings, F. J. Vento, J. S. Duggan and J. H. Higley—Preliminary Assessment of Recent Research at the Old Vero Site (8IR009), Vero Beach, Florida
- 8:45 Michael Savarese, Antonio Arruza, Victor Thompson, Karen Walker and William Marquardt—Paleoenvironmental Context of Calusa Cultural Evolution on Mound Key, Estero Bay, Southwest Florida
- 9:00 Elizabeth Scharf—Vegetation Change at Poverty Point, Louisiana
- 9:15 Anna Graham—New Insights from Old Wood: A Case Study from the Southeastern United States
- 9:30 Anthony Boucher—Referencing the Archaic on a Woodland Landscape on Florida's Northern Gulf Coast
- 9:45 Terry Barbour—Anchoring in the Gulf: Trans-species Dwelling and Building in Gulf Coast Florida

Thursday Morning, April 12

- 10:00 Martin Walker and David Anderson—Examining the Subsistence and Social Landscapes of the Late Precontact Occupations at the Topper Site (38AL23), Allendale, South Carolina
- 10:15 William Marquardt, Victor Thompson, Karen Walker, Michael Savarese and Lee Newsom—Cooperation and Coercion: Geography, Ecology, Climate, and Surplus Production in the Rise of the Calusa Kingdom
- 10:30 Evan Mann—Conch, Whelk, or Clam: Comparing Southern Florida's Indigenous Shellfish Collection Patterns
- 10:45 Connie Randall, Meagan Dennison, Jay Franklin, Bruce Manzano and Renee Walker—Woodland Subsistence in Upper East Tennessee
- 11:00 Nicholas Triozzi—Competing with the Crown: Early Spanish Mission Settlement Decisions in a Human Behavioral Ecology Model

**[36] GENERAL SESSION ■ CONTACT PERIOD ARCHAEOLOGY****Room:** Washington Room 2**Time:** 8:00 AM–11:15 AM**Chair:** Kristi Feinzig**Participants:**

- 8:00 Ashley Parker, Lisa Johnson, Kate Magargal, Marianna Di Paolo and Brian Coddling—When Is a Horse Not a Horse? It Depends on Your Local Ecology
- 8:15 Monica Pacheco Silva—Perception and Interpretation of the Landscape in the Lienzo of Coixtlahuaca/Seler II
- 8:30 Kristi Feinzig—Tracing Sixteenth-Century Beads in South America to Understand Their Impact on Indigenous Ritual Practices and Material Culture at the Time of the Spanish Conquest
- 8:45 Donald Blakeslee—Uncovering Etzanao: A Megasite on the Southern Plains
- 9:00 Crystal Dozier—Toyah Mitotes: Feasting in the Terminal Late Pre-Hispanic Southern Plains
- 9:15 Sarah Nowell—Inferring Continuity and Growth from Household Expansion at the Xwisten Bridge River Site in British Columbia
- 9:30 Jamie Forde—Commensal Politics, Intersectional Politics: Serving Ceramics at Early Colonial Achiutla, Oaxaca, Mexico
- 9:45 Jacinda Sinclair—The Complexity of Archaeological Site Revisits: A Case Study from Labrador
- 10:00 Wade Campbell, Matthew Magnani and Alex Wesson—Reanalyzing “The Rise”: A Gobernador Phase Navajo Habitation Site in Northwest New Mexico
- 10:15 Kevin M. O'Briant and Clay Jenkinson—Trailing Lewis & Clark: Inventorying Prehistory at the Point of Contact
- 10:30 Alyce De Carteret—Building an Empire: Spanish Colonial Encounters with Maya Houses and Housebuilding
- 10:45 Elspeth Geiger—Contact, Exchange, and Identity Revisited: A Closer Look at Michigan's Garden Peninsula Archipelago
- 11:00 Maria Stapleton and Charles Stapleton—Pueblo de Indios: Syncretic Art and Architecture in the Negotiation of Indigenous Identity

**[37] GENERAL SESSION ■ PRECLASSIC, CLASSIC AND POSTCLASSIC MAYA****Room:** Lincoln 6**Time:** 8:00 AM–11:30 AM**Chair:** Walter Burgos Morakawa**Participants:**

- 8:00 D. Gibson—When Irish Eyes View Maya Classic Period Political Systems

Thursday Morning, April 12

- 8:15 Edgar Carpio—Contribution of Stephan F. de Borhegyi to the Archaeology in Guatemala: Investigation in the Borhegyi's Archives at the Milwaukee Public Museum
- 8:30 Meaghan Peuramaki-Brown and Shawn Morton—Maya Monumental 'Boom': Spatial Development, Rank Ordering, and Planning Considerations at Alabama, East-Central Belize
- 8:45 Debora Trein and Thomas Hart—Not Your Backyard Garden: Terraces in the Shadow of La Milpa's Temples
- 9:00 Anna Kebler, Michael Callaghan and Brigitte Kovacevich—Chemical Composition of Maya Slips: Analysis and Interpretation of Preclassic Sherds from Holtun, Guatemala Using pXRF Technology
- 9:15 Jessica Cerezo-Román and Kenichiro Tsukamoto—Life and Death of Lakam Elites at the Maya Center of El Palmar, Campeche, Mexico
- 9:30 Shannon Plank, Rafael Burgos, Scott Hutson, Yoly Palomo and Miguel Covarrubias—Uci and Izamal: Influence and Interaction in the Northern Maya Lowlands
- 9:45 Jeffrey Davis, Julie Hoggarth, Jaime Awe and Chrissina C. Burke—Terminal Deposits and Terminal Classic Collapse: An Analysis of the Proportional Distribution of Artifacts from Terminal Deposition Events at the Site of Baking Pot, Belize
- 10:00 Walter Burgos Morakawa and Brent Woodfill—Understanding Maya Rituals of Power in the Candelaria Caves, Guatemala: A View from the Polychrome Ceramics of the Early Classic
- 10:15 Christopher Attarian—Complementary Economic Specialization in an Emerging Decentralized Exchange System: A Case from the Late Classic Naco Valley, Honduras
- 10:30 Sarah Nicole Boudreaux, Laura Levi and Christian Sheumaker—Provisioning the Household: Exploring Domestic Economic Integration within Two Lowland Maya Communities
- 10:45 Kathleen Forward—Community Complexity and Collapse: A Settlement Analysis of the Ancient Maya Site Contreras Valley, Belize
- 11:00 Alessandra Villarreal—Preclassic Maya Ceramic Production and Distribution: Preliminary Petrographic Analysis from the Mopan Valley, Belize
- 11:15 Jason Whitaker—Hinterland Domestic Economies: A Summary of Recent Investigations at the San Lorenzo Settlement Cluster

**[38] GENERAL SESSION ■ THE ARCHAEOLOGY OF THE GREAT BASIN AND CALIFORNIA****Room:** Washington Room 4**Time:** 8:00 AM–11:15 AM**Chair:** Timothy Murphy**Participants:**

- 8:00 Connor Johnen—A View from the Mountains: A Test of a Predictive Model in the Southern Wind River Range, Wyoming
- 8:15 Michael Glassow—Seasonal Mobility Patterns During the Middle Holocene on Santa Cruz Island, California
- 8:30 Carly Whelan—Obsidian Trade vs. Direct Acquisition: A View from Central California
- 8:45 Rosemary Brother—From Features to Figures: Quantitative Analysis of California Native American Baskets
- 9:00 Chester Liwosz—Stones and Standing Waves: Integrating Interpretation with Emergent Methods in Petroglyph Studies

Thursday Morning, April 12

- 9:15 Richard-Patrick Cromwell, Erin Herring, Chantel Saban and Brianna Kendrick—Paleoecological Analysis Using Select Coprolites & Sediments Recovered from Paisley Caves, Oregon
- 9:30 Michael Ligman, Tina Hart and Michael L. Terlep—Portable XRF Analysis of Rock Art Pigments Used in Pictographs across the Great Basin
- 9:45 Herb Dallas—Revisiting CA-VEN-1 and Millingstone Culture Re-examined
- 10:00 William Jerrems—Pre-Clovis Evidence at Guano Mountain, Nevada
- 10:15 J. Guzman—Mapping Prehistoric Behavior Patterns at a Lithic Tool Stone Source in the Colorado Desert: Results of Geospatial Analysis at CA-IMP-008/H
- 10:30 Stephanie Abo—Examining Fremont Snake Valley Black-on-gray Pottery through Neutron Activation Analysis
- 10:45 Timothy Murphy—A GIS Analysis of Ancient Human Trails, Human Behavioral Ecology, and Agency in the Mojave and Colorado Desert
- 11:00 Edward Stoner and Geoffrey Cunnar—The Pequop Projectile Point Type Site in Goshute Valley, Northeastern Nevada and Implications for the Long and Short Chronology Debate in the Great Basin

**[39] GENERAL SESSION ■ HISTORIC ARCHAEOLOGY IN THE NEW WORLD****Room:** Marriott Salon 3**Time:** 8:00 AM–11:45 AM**Chair:** Karin Larkin**Participants:**

- 8:00 Mark Wagner and Ryan Campbell—Bound to the Western Waters: Searching for Lewis and Clark at Ft. Kaskaskia, Illinois
- 8:15 Karin Larkin and Michelle Slaughter—Chasing the Cure: The Archaeology of Alternative Health Practices at a Tuberculosis Sanatorium
- 8:30 William Graves and Christopher Garraty—A Prelude to Displacement: An Archaeological Reconstruction of Community History at San Pablo and Barrio del Hoyo in Tempe, Arizona
- 8:45 R. E. Burrillo—The Mikesboy Site Complex: Historic Archaeology and the Utes of Bears Ears
- 9:00 Kelly Jenks—On the Road Again: Archaeology on El Camino Real
- 9:15 Hali Thurber and Justin Uehlein—Mapping Transience: An Archaeology of Hobo Movement and Placemaking
- 9:30 Jack Gary—Regular Irregularity: Archaeological Evidence at Thomas Jefferson's Poplar Forest for Intersecting Garden Traditions
- 9:45 Clara Steussy—Mono no Aware: Challenges of Impermanence in the Archaeological Record of a WWII Japanese American Concentration Camp
- 10:00 Eric Proebsting and Daniel Druckenbrod—Forest, Frost, and Agriculture: Measuring Three Centuries of Environmental Change at Thomas Jefferson's Poplar Forest
- 10:15 Rob Mann, Charles Peliska and Jacob Dupre—"A Very Good and Substantial Fort" or "More like a Child's Playhouse": The History and Archaeology of Civilian Fortifications during the U.S. – Dakota War of 1862 in Minnesota
- 10:30 George Schwarz and Ben Ford—Rebirth of the Schooner Royal Savage: Documenting and Interpreting Disarticulated Ship Remains from the American Revolutionary War
- 10:45 James Myster, Brian Hoffman, Rikka Bakken, Steve Goranson and Camille Warnacutt—Porte des Morts Lighthouse Ruins Excavation: The Study of a Mid-19th Century Lighthouse Site on the Great Lakes
- 11:00 Kevin Wiley and Joseph Schuldenrein—Riverside 2: Urban Archaeology, Landscape Reconstruction, and Public Engagement

Thursday Morning, April 12

- 11:15 Nina Schreiner—Archaeology of a Frontier Plantation: Collections Analysis at Woodville Plantation, Pennsylvania, c. 1780
- 11:30 Ralph Koziarski—Good Living in Hard Times: De-urbanization and Personal Wealth in Nineteenth Century New Market, Maryland

**[40] GENERAL SESSION ■ DIGITAL LANDSCAPES I – APPLICATIONS IN GIS****Room:** Washington Room 5**Time:** 8:00 AM–11:45 AM**Chair:** Samuel Martin**Participants:**

- 8:00 Colin Quinn—A New Method for Monitoring Socio-economic Changes through Settlement Placement
- 8:15 Danielle Phelps—Escaping from the Tomb: A Spatial Analysis of Possible Escape Routes in the Valley of the Kings, Egypt
- 8:30 Terance Winemiller and Virginia Ochoa-Winemiller—The Imitation Game: Hybridization of Styles and Trade Goods in Ancient Eastern Honduras
- 8:45 Marie Saldana—Procedural Modeling for Archaeology
- 9:00 Taylor Zaneri—Producing the City-State: GIS Modeling of Rural Land Use in Medieval Tuscany
- 9:15 Graham Goodwin, Heather Richards-Rissetto, Kristy Primeau and David Witt—Soundscapes and Visionscapes: Investigating Ancient Maya Cities with GIS and 3D Modeling
- 9:30 Sarah Jackson, Joshua Wright and Linda A. Brown—Contrasting Cartographies: Mapping a Maya Site Using Multiple Perspectives
- 9:45 Brian Buchanan, Sarah Semple and Sue Harrington—People, Place, and Identity: Funerary Landscapes and the Development of the Early Medieval Kingdom of Northumbria
- 10:00 Katherine Rose—Legitimizing Nearness: Negotiating Identities in the Spatial Design of 25th Dynasty Nubian Cemeteries
- 10:15 Mara Horowitz—Performative Aspects of Early Monumental Architecture at Late Bronze I Phlamoudhi-Vounari, Cyprus
- 10:30 Jesse Nowak—Fort Walton Formations: Examining Geospatial Trends in Artifacts and Architecture at the Lake Jackson Site in Florida
- 10:45 Samuel Martin—A Relationship between Seasonal Flooding and Raised Agricultural Fields in the Llanos de Mojos, Bolivia
- 11:00 Tia B. Watkins and John Walden —A Comparative Spatial Analysis of Ancient Palaces
- 11:15 Maria Fernanda Boza Cuadros—Places, Ports and Their People: The Rise of the Peruvian Post-Colonial State in the Arequipa Coast
- 11:30 Scott Macrae—Agricultural Strategies and Intensification: A Study of Risk Management in the Southern Maya Lowlands

**[41] GENERAL SESSION ■ OLD WORLD PALAEO-LITHIC****Room:** Lincoln 5**Time:** 8:00 AM–11:45 AM**Chair:** Paul Thacker**Participants:**

- 8:00 Irfan Yaman, Cevdet Merih Ereğ, İraz Asli Yaman and Alper Basiran—A New Excavation In Southeast Turkey: Kece Cave
- 8:15 Alan Simmons—Aquatic Neanderthals and Paleolithic Seafaring: Myth or Reality? Examples from the Mediterranean
- 8:30 Michele Troutman—Spatial Distribution of Stone Tools at Peyre Blanque

Thursday Morning, April 12

- 8:45 Melanie Chang and April Nowell—The Scientific Method in Paleolithic Archaeology
- 9:00 Jay Franklin, Frédéric Surmely, Sandrine Costamagno, Maureen Hays and Lauren Woelkers—Discovery of a New Middle Magdalenian Site at Enval in the Massif Central of France
- 9:15 Paul Thacker—Emic Knapping Perspectives and the Analytical Concept of Raw Material Similarity: Building a Contextualized Theory of Lithic Raw Material Selection
- 9:30 Justin Pargeter and Marika Low—Lithic Miniaturization and Behavioral Variability in Southernmost Africa 18–11 kcal. BP
- 9:45 Marine Frouin, Jean-Luc Schwenninger and Tom Higham—New Insights into the Chronology of Late Middle Paleolithic Occupations in Southwestern France
- 10:00 Mathew Stewart—The Unexpected Fauna of Pleistocene Saudi Arabia and the Earliest Evidence of Hominin Butchery Activity
- 10:15 J. Christopher Gillam, Nicolas Zwyns, Masami Izuho, Tseveendorj Bolorbat and Evgyny Rybin—Shedding New Light on Upper Paleolithic Cultural Landscapes of Northern Mongolia
- 10:30 Reed Coil, Martha Tappen, Reid Ferring, Maia Bukhsianidze and David Lordkipanidze—Photogrammetry, Spatial Patterning, and Site Formation of the Hominin-Bearing Layers at the Lower Paleolithic Site of Dmanisi, Georgia
- 10:45 Tom Higham, Thibaut Devièse, Marine Frouin and Katerina Douka—Neanderthals, Denisovans and Modern Humans: Unravelling the Chronology of the Middle to Upper Palaeolithic of Eurasia
- 11:00 Sarah Hlubik, Russell Cutts, David R. Braun, Francesco Berna and Craig Feibel—Fire in the Early Pleistocene: Evidence for the Use of Fire by Hominins at the 1.5 mya Site of FxJ20 AB, Koobi Fora, Kenya
- 11:15 Ella Beaudoin, David R. Braun and Jonathan Reeves—Spatial Variation in Tool Use: Acheulean Forager Patterning at Elandsfontein, South Africa
- 11:30 Katerina Douka, Samantha Brown, Mikhael Shunkov, Anatoly Derevianko and Tom Higham—Searching for the Denisovans

**[42] GENERAL SESSION ■ CULTURAL RESOURCES AND HERITAGE MANAGEMENT IN THE AMERICAS****Room:** Lincoln 3**Time:** 8:00 AM–12:00 PM**Chair:** Gregory Lockard**Participants:**

- 8:00 Rebecca Schumann—The History We Remember: Race, Law, and Understanding the Archaeological Landscape
- 8:15 Sean Dolan—Thinking outside the Excavation Unit: Lessons Learned from an Alternative Mitigation Project on the Pajarito Plateau, New Mexico
- 8:30 Scott Seibel and Christopher McDaid—Managing the Effects of Erosion and Sea Level Rise on Archaeological Sites at Fort Eustis, Newport News, Virginia
- 8:45 Carolyn Dillian and Charles Bello—Historic Preservation and the Indian Division of the Civilian Conservation Corps
- 9:00 Gregory Lockard—International Lender Standards for Cultural Heritage
- 9:15 Alice Kehoe—The Postcolonial Imperative
- 9:30 James Gibb—Pig Manure and Swizzle Sticks: Defining an Archaeological Site Type
- 9:45 Jorge Rios Allier and Ma. del Pilar Casado Lopez—Public Policies and Rock Art in México

Thursday Morning, April 12

- 10:00 Kathryn Turney—Land and the Social Consequences of Land Loss: Navajo Oral History, Ethnoarchaeology, and Spatial Analysis at Wupatki National Monument, Arizona
- 10:15 William Auchter—Cell Towers: Where the Archaeology Is a Mile Wide and an Inch Deep
- 10:30 Amilcar Vargas and Álvaro Brizuela Absalón—REAP in El Tajin: Looking towards Social Participation in a World Heritage Site
- 10:45 Brian Ostahowski—Coastal Land Loss and the Future of Louisiana's Archaeological Record
- 11:00 Adrienne Velasquez—Treasure within the Fortress: Opportunities for Partnership in DoD Archaeology
- 11:15 Pedro Espinoza—El Continuum cultural, una nueva estrategia de investigación y gestión del patrimonio arqueológico en Lima, Perú
- 11:30 Kasey Diserens Morgan—Navigating Narratives of the Past in the Present: Archaeology and Heritage Preservation in Tihosuco, Quintana Roo, Mexico
- 11:45 Marieka Arksey, Paddington Hodza and Greg Pierce—WyoARCH: Increasing the Impact of Archaeological Repositories through Spatially-Enabled Collections Management

**[43] GENERAL SESSION ■ ZOOARCHAEOLOGY AND SUBSISTENCE****Room:** Marriott Salon 2**Time:** 8:00 AM–11:45 AM**Chair:** José López Mazz**Participants:**

- 8:00 Zachary Boyer—Nine Gal Tavern Faunal Analysis
- 8:15 A. Dudley Gardner—Apishapa Structures and Subsistence Strategies in Purgatoire Canyon Colorado
- 8:30 Sarah Neusius—Animal Use among the Monongahela: Insights from the Analysis of the Johnston Site Faunal Assemblage
- 8:45 José López Mazz—Prehistoric Dogs in the Uruguay Lowlands
- 9:00 Virginia Harvey, Linas Daugnora and Michael Buckley—Collagen Fingerprinting on Neolithic Fish from Lithuania
- 9:15 Aurelie Manin, Camilla Speller, Gregory Pereira and Christine Lefèvre—Captive Birds and Pet Keeping in Ancient Mesoamerica: The Case of Scarlet Macaws from Vista Hermosa (Tamaulipas, Mexico, 1300–1500 AD)
- 9:30 Madeline Leines—Perceptions vs. Reality: Animal Lives in the Ancient Maya, Aztec, and Inca Cultures
- 9:45 Rachel McTavish—Fish Butchering and Processing in Archaeology: Proposed Methods for Academic and CRM Analyses
- 10:00 Heather Lapham, Gary M. Feinman and Linda M. Nicholas—Raising Dogs for Meat and Sacrifice: A Comparative Study of Classic Period Sites in Oaxaca, Mexico
- 10:15 Michael Buckley and Muxin Gu—Machine Learning Species Identification with ZooMS Collagen Fingerprinting
- 10:30 Heath Bentley, Norbert Stanchly and James Garber—From the Sea to the Smoker: A History of Sea Turtle Exploitation on St. George's Caye, Belize
- 10:45 Spencer Lambert—Identifying Fremont Large Game Hunting Practices through the Modified General Utility Index and Strontium Isotope Analysis
- 11:00 Meredith Wismer—Pocket Gophers as Food? The Zooarchaeological Investigation of an Unusual Woodland Period Assemblage
- 11:15 Heather MacIsaac—Revisiting the Keeshin Farm Site: A Study on Continuity and Change in Subsistence Practices at a Langford Tradition Settlement

Thursday Morning, April 12

- 11:30 Madeline Mackie—What Are the Chances? Estimating the Probability of Coincidental Artifact Association with Megafauna Remains

**[44] GENERAL SESSION ■ NORTH AMERICAN HUNTER-GATHERERS****Room:** Jackson**Time:** 10:30 AM–12:00 PM**Chair:** Metin Eren**Participants:**

- 10:30 Meghan Dudley—Identifying Hunter-Gatherer Socialized Landscapes in the Bridger Mountains, Montana
- 10:45 Metin Eren, Brian Andrews, Michelle Bebber, Ashley Rutkoski and David Meltzer—Year One of New Excavations at the Paleo Crossing (33ME274) Clovis Site, Ohio: The 2017 Field Season
- 11:00 Veronica Arias—An Isolated Middle Archaic Bison Kill Site in the Northern Texas Panhandle
- 11:15 Katherine Seikel, Rachel Feit and Jon Budd—A Greasy Mess: Reconsidering Prehistoric Bone Grease Extraction and Its Implications for Site Interpretation
- 11:30 Jessica Morales, Jelmer Eerkens, Jeffrey Rosenthal and Andrew Ugan—Using Faunal Stable Isotopes to Assess Past Hunting Practices and Landscape Modification along the Feather River, CA
- 11:45 Ebony Creswell—Culture and Disease: Modeling the Spread of Tuberculosis in Wyoming

**[45] GENERAL SESSION ■ EAST ASIA: THE JOMON AND NEOLITHIC PERIODS****Room:** Delaware A**Time:** 10:30 AM–12:00 PM**Chair:** Bong Kang**Participants:**

- 10:30 Takashi Sakaguchi—Regional Sociopolitical Transformations among Complex Hunter-Gatherers: A Macroregional Approach to the Late Jomon of Central Hokkaido
- 10:45 Zhuang Lina, Lin Liugen and Gan Huiyuan—Ground Stone Tools from the Hanjing and Shunshanji Sites
- 11:00 Xiangming Dai—An Analysis on the Taosi Cemetery from the Late Neolithic in North-central China
- 11:15 Minmin Ma, Lele Ren and Xin Li—The Study of Isotopic Baseline in the Gan-Qing Region, Northwestern China
- 11:30 Xiaotong Wu, Xingxiang Zhang, Zhengyao Jin, Rowan Flad and Xinming Xue—Long-Distance Human Migration in Late Neolithic China: Isotopic Evidence from Qingliangsi Cemetery
- 11:45 Bong Kang—The Rock Art of Bangudae in Southern Korea: Focused on the Problems of Whale Hunting

**[46] GENERAL SESSION ■ MATERIALS ANALYSIS AND ARCHAEOMETRY IN ANDEAN ARCHAEOLOGY****Room:** Jefferson**Time:** 10:30 AM–12:00 PM**Chair:** Jose-Luis Sagripanti



Thursday Morning, April 12**Participants:**

- 10:30 Jose-Luis Sagripanti, Dan Wise, Ralph A. Anthenien Jr., Elias Yoon and Christopher Kleihege—High Energy Generation and Elevated Temperature Potential of an Archaic Furnace in Ancient Peru
- 10:45 Maria Soledad Solorzano Venegas and Olga del Pilar Woolfson Touma—Proceso Constructivo en los Montículos Circulares Prehispánicos de Urcuquí / Constructive Process at Prehispanic Circular Mounds of Urcuquí
- 11:00 Sebastian Warmlander—Three Case Studies of Andean Metalworking
- 11:15 Jo Osborn, Camille Weinberg and Kelita Pérez Cubas—Revisiting Jahuay: An Early Horizon Maritime Site at the Topará Quebrada on the South Coast of Peru
- 11:30 Richard Burger, Lucy Salazar and Michael D. Glascock—New Evidence of Inca Ceramic Production and Exchange in the Cuzco Heartland
- 11:45 German Loffler—Digital Standardization of Ceramic Nomenclature: A Case for Central Coast Peruvian Pottery Forms during the Late Intermediate Period

**[47] POSTER SESSION ■ PALEOINDIAN ARCHAEOLOGY****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 47-a Richard Rosencrance—New Data and Potential Pathways of Paleoindian Exploration in the West Virginia Highlands
- 47-b Abigail Gancz—Raw Material Quality and Spatial Patterning at Shawnee-Minisink
- 47-c Julia Furlong, Jerry R. Galm and Stan Gough—Identifying Lithic Technological Strategies at the Late Paleoindian Sentinel Gap Site Using 3D Digital Morphometrics
- 47-d Ted Goebel and Bryan Hockett—Raw Material Procurement and Biface Production at Bonneville Estates Rockshelter, Nevada: A Long-Term Diachronic Approach
- 47-e Cahill Shpall, Katelyn McDonough and Dennis Jenkins —Elko Chronology: Connelly Caves Lithic Analysis and Great Basin Implications

**[48] POSTER SESSION ■ SETTLEMENT & MIGRATION****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 48-a Craig Lee, Pei-Lin Yu, Edward Jolie, Kathy Puseman and Halcyon LaPoint—Beyond the Points: Sociocultural Complexity Revealed by Non-hunting Artifacts from Melting Ice Patches in the High Alpine, Greater Yellowstone Area, USA
- 48-b Jaelyn Roland—Cultural Changes during the Protohistoric Period: An Oneota Case Study
- 48-c Emily Kate, J. Heath Anderson, Douglas J. Kennett and John Krigbaum—A Preliminary Study of Epiclassic Human Mobility at Cerro Magoni in Tula, Mexico Using Stable and Radiometric Isotope Analyses
- 48-d Linda Neff, Ted Neff, Peter Pilles and Ronald Krug—A Settlement Pattern Analysis of Yavapai and Apache Archaeological Sites in the Verde Valley Area, Central Arizona
- 48-e Bianca Gentil—The People's Response to Change: Settlement Patterns During the Classic-Postclassic Transition in the Puebla-Tlaxcala Valley, Mexico
- 48-f Mario Giron-Ábrego—Points of Early Human Mobility: A Preliminary Synthesis of Paleo-Central American Sites

Thursday Morning, April 12

- 48-g Andrew Mark, Justin Holcomb and David Carballo—Towards a Wave-of-Advance Model for Predicting the Spread of Prismatic Blade Technology in Mesoamerica

**[49] POSTER SESSION ■ ICONOGRAPHY AND EPIGRAPHY****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 49-a Alice Diaz—Zooanthropomorph Iconography in the Gran Coclé, Gran Chiriqui and Tairona Areas
- 49-b Zachary Critchley—Iconographic Depictions of Spear-Thrower Use in the Ancient Andes
- 49-c Ellie Tamura—The Two Pillars of the Kingdom of Bagan, Myanmar: How Royalty and Religion Shaped the Settlement Patterns of an Empire
- 49-d Alexa Rose and Michael E. Smith—Almenas and Architecture

**[50] POSTER SESSION ■ ARCTIC AND SUBARCTIC ARCHAEOLOGY****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 50-a Laura Crawford—Ancient Alaskan Firewood Management Strategies and the Role of Selectivity: Preliminary Results
- 50-b Marjolein Admiraal, Alexandre Lucquin, Matthew von Tersch, Peter Jordan and Oliver Craig—Investigating Organic Residues on Prehistoric Cooking Technologies in the Aleutian Islands
- 50-c John Michael Garbellano and Christopher Wolff—Maritime Archaic Spearpoints: A New Examination of Their Context and Chronology
- 50-d Paul Szpak—The Environmental Context of the Dorset-Thule Transition: Evidence from Stable Isotope Analysis of Archaeofauna
- 50-e Kaitlin Stanley—Bone Artifacts from Summer Bay, Unalaska
- 50-f Kathryn Krasinski, Brian Wygal, Charles Holmes and Barbara Crass—Investigations of the Late Pleistocene Occupations at Holzman, Shaw Creek, Interior Alaska
- 50-g Jeffrey Rasic—A New Radiocarbon Dated Record of Holocene Weapon Technology from the Trail Creek Cave Site, Seward Peninsula, Alaska

**[51] POSTER SESSION ■ THE CARIBBEAN****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 51-a Eric Klingelhofer—Assessing Threats to Coastal Sites: A Trial Run on St Croix, USVI
- 51-b Susan deFrance, Edana Lord, Michelle LeFebvre, Catherine Collins and Elizabeth Matisoo-Smith—To the Caribbean and Beyond: Complete Mitogenomes of Ancient Guinea Pigs (*Cavia porcellus*) as a Proxy for Human Interaction in the Late Ceramic Age
- 51-c Fraser Neiman, Lindsay Bloch, Jillian Galle and Jeffrey R. Ferguson—Developing Reproducible Methods for Defining and Evaluating Ceramic Compositional Groups Derived from NAA and LA-ICP-MS

Thursday Morning, April 12

- 51-d Jillian Galle, Lindsay Bloch, Jeffrey Ferguson, Fraser Neiman and Suzanne Francis Brown— Ceramic Manufacturing and Distribution Networks in Early Jamaica: Interpretive Implications of LA-ICP-MS and NAA Analyses on Coarse Earthenwares from 18th-Century Plantation Contexts

**[52] POSTER SESSION ■ NORTH AMERICAN ARCHAIC****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Participants:**

- 52-a Dylan Davis—Filling in the Map: Object-Based Image Analysis and Its Potential for Shell Ring Identification on Hilton Head Island, SC
- 52-b Brian Redmond—Examining Ritualism in Late Archaic Domestic Contexts: Clay-Floored Shrines at the Burrell Orchard Site, Ohio
- 52-c Harley Burgis and Lara Homsey-Messer—Using Microartifacts to Investigate Prehistoric Cooking Methods at the Archaeological Site of Dust Cave
- 52-d Rebecca Hummel, Katharine Alexander and George Crothers—Initial Timing and Spread of the Eastern Agricultural Complex: Need for a Comprehensive Database
- 52-e Kelly Jones and William Locascio—A Typology of Late Archaic Ceramic Evidence from Okeechobee Basin to Determine Regional Interactions
- 52-f Aksel Casson and James Jablonski—A Return to Wolf Creek, PA
- 52-g Robert Ahlrichs—Range and Variation of Copper Tools from Two Archaic Localities in Wisconsin

**[53] POSTER SESSION ■ FIGHTING ANTI-SCIENCE HYSTERIA THROUGH PUBLIC ARCHAEOLOGY****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Chair:** Bernard Means**Participants:**

- 53-a Sara Ayers-Rigsby and Rachael Kangas—Save Our Sites! Using Archaeology to Educate the Public about Climate Change in South Florida
- 53-b Bernard Means and Elizabeth Moore—Here Not Be Dragons from the End Times: Exploring Virginia Archaeology Using the 3D Printed Past
- 53-c Laura Galke—Resurrecting Mother Washington: The Dissonance of Washington's Youth
- 53-d Uzi Baram—Popular Beliefs of Safety in an Age of Rising Sea Levels: Public Archaeology as a Means to Counter Exceptionalism on the Florida Gulf Coast
- 53-e Mischa Johns—Resuscitating a Dying City: Instilling Pride Through Public History and Archaeology
- 53-f Kelsey Noack Myers, Joshua J. Wells, Stephen Yerka, Sarah Witcher Kansa and David Anderson—Making Archaeological Data Publicly Accessible through the Digital Index of North American Archaeology
- 53-g Eric Larsen—"So, have you tried...?": Is It REALLY about Science... Or Is It about Authority?
- 53-h Phillip Ashlock and Dawn Ashlock—Exploring the Use of 3D Technologies, Virtual Reality, and Immersive Media in Public Archaeology to Advance Awareness of Material Culture across Social Media Platforms
- 53-i Angela Jaillet-Wentling and Samantha Taylor—Building a Public Archaeology Effort Finding the Best Foundation Somewhere between Bedrock and Shifting Sands: Public Archaeology Efforts at Pandenarium (36ME253)

Thursday Morning, April 12**[54] POSTER SESSION ■ A MEDITERRANEAN WORLD, 6000 BC–AD 2000:****ARCHAEOLOGY AND HISTORY OF BOVA MARINA, ITALY****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Chairs:** Paula Kay Lazrus and John Robb**Participants:**

- 54-a Paula Kay Lazrus—A Long Walk from Town: Early 19th Century Landuse in the Territory of Bova
- 54-b John Robb—The 20th Century Archaeology of the High Mountains: State Projects and the Forces Resisting Them
- 54-c Kostalena Michelaki and John Robb—Two Thousand Years of Pot-Making: Exploring Neolithic Ceramic Traditions in SW Calabria, Italy
- 54-d Lin Foxhall—Greeks in the Mountains: New Insights on the Landscapes of Ancient Greek ‘Colonization’ in Calabria, Southern Italy
- 54-e Isaac Ullah, Yesenia Garcia, Paula Kay Lazrus, Nicholas Ames and Meredith S. Chesson—Historic Water Management Infrastructure in the San Pasquale Valley, Calabria, Italy
- 54-f David Yoon—Long-Distance Trade in Late Antique Italy: Evidence from the Bova Marina Archaeological Project
- 54-g Meredith S. Chesson, Isaac Ullah, Nicholas Ames, Hamish Forbes and Paula Kay Lazrus—Full of Water, Full of Life: Water, Resilience, Sustainability, and Built Heritage in the 19th to 21st Centuries San Pasquale Valley, Calabria, Italy
- 54-h Helen Foxhall Forbes—Caught between East and West: Southern Calabrian Political Landscapes and the Mediterranean World, 400–900 CE
- 54-i R. Helen Farr—Implications for Submerged Prehistoric Archaeology: Coastal Geomorphological Mechanisms on the Local Scale in the San Pasquale Valley, Bova Marina, Reggio Calabria

**[55] POSTER SESSION ■ NEW RESEARCH IN SOUTH CENTRAL MICHOACÁN MÉXICO****Room:** Exhibit Hall B South**Time:** 10:30 AM–12:30 PM**Chair:** José Luis Punzo Díaz**Participants:**

- 55-a Cinthia M. Campos, José Luis Punzo Díaz and Carlos Karam—Ritual Human Sacrifice among the Tarascans
- 55-b David Rangel, Juan Julio Morales Contreras and José Luis Punzo Díaz—Archeomagnetic Dating of Ceramic Potsherds of the Tingambato Archeological Site
- 55-c Fernando Castillo Flores, Francisco Javier García Ugalde, José Luis Punzo Díaz, Alfonso Gastelum-Strozzi and Dante Bernardo Martínez Vázquez—Automatic Classification of Digital Images of Archaeological Arrowheads
- 55-d Alejandro Valdes and Lissandra González—El Arte Rupestre en el Paisaje de la Tierra Caliente Michoacana
- 55-e Max Ayala—Obsidian Debitage Sequence in Three Sites in West Mexico during the Late Classic Period: A Proposal
- 55-f Alfonso Gastelum-Strozzi, Ingris Peláez Ballestas, Jesús Zarco Navarro and José Luis Punzo Díaz—Tomography and Photography Studies of Funerary Urns from South Central Michoacán México

Thursday Morning, April 12**[56] GENERAL SESSION ■ SOUTHEAST AND SOUTH ASIAN ARCHAEOLOGY****Room:** Johnson**Time:** 10:45 AM–12:00 PM**Chair:** Lubna Omar**Participants:**

- 10:45 Gyles Iannone, Pyiet Phyo Kyaw, Nyien Chan Soe, Saw Tun Lynn and Scott Macrae—Water, Ritual, and Prosperity at the Medieval Capital of Bagan, Myanmar (11th to 14th Centuries CE): Preliminary Exploration of the Tuyin-Thetso “Water Mountain” and the Nat Yekan Sacred Water Tank
- 11:00 Yong Jun Kim, Nilesh Jadhav, Eun Jin Woo, Dong Hoon Shin and Vasant Shinde—Harappan Necropolis of Rakhigarhi, India: Archaeology and Bioanthropology
- 11:15 Lubna Omar—Running with the Mules: Integrating Zooarchaeological, Archaeological and Textural Evidence to Reconstruct the Exploitation of Equids in Southwest Asia
- 11:30 Mudit Trivedi—The Archaeology of Religious Conversion: Virtue and Tradition in the Indor valley, North India
- 11:45 Chin-hsin Liu and Coralia Guandique—Dental Health Assessment of Nil Kham Haeng and Its Implications in Prehistoric Central Thailand

Thursday Afternoon, April 12**Thursday Afternoon ■ April 12, 2018****[57A] THE ETHICS BOWL****Room:** Lincoln 2**Time:** 1:00 PM–3:00 PM**[57] SYMPOSIUM ■ ARCHAEOLOGICAL RESEARCH IN THE HISPANIC CARIBBEAN****Room:** Jackson**Time:** 1:00 PM–2:45 PM**Chairs:** Paola Schiappacasse and Odlanyer Hernandez-de-Lara**Participants:**

- 1:00 Gelenia Trinidad-Rivera—Altering the Walls of Domesticity: Late 19th Century Modifications to Households in San Juan, Puerto Rico
- 1:15 Laura Hernández—Where Are You Staying? Lodging Facilities in San Juan, Puerto Rico
- 1:30 Luis Quintana Ortiz—19th Century Factories, Warehouses and Workshops in La Puntilla, San Juan Puerto Rico
- 1:45 Jan Pérez and Paola Schiappacasse—Recreating the Late 19th Century Urban Landscape of Puerta de Tierra, San Juan, Puerto Rico
- 2:00 Odlanyer Hernandez-de-Lara, Johanset Orihuela, Boris Rodriguez and Ricardo Viera—Documenting the First Battle of the Spanish-Cuban-American War (1898): Insights for an Archaeological Perspective
- 2:15 Alice Samson—Discussant
- 2:30 Jago Cooper—Discussant

**[58] GENERAL SESSION ■ ETHNOARCHAEOLOGICAL APPROACHES****Room:** Park Tower Suite 8222**Time:** 1:00 PM–2:45 PM**Chair:** S. Margaret Spivey-Faulkner**Participants:**

- 1:00 Kate Magargal—The Ecology of Cooking with Firewood
- 1:15 Katharine Fernstrom—Embodying Identities: The Human Figure in Pre-European Native American Art
- 1:30 Spencer Pelton—A Thermoregulatory Perspective on the Folsom Archaeological Record
- 1:45 Fanya Becks—What Should We Call the Rocks in Living California Landscapes?
- 2:00 Patricia Markert—A Tale of Two Places in D'Hanis, TX: Combining Linguistic Anthropology and Historical Archaeology to Study Place-Making on the Texas Frontier
- 2:15 Matthew Magnani—Contemporary Archaeology in Indigenous Communities?
- 2:30 S. Margaret Spivey-Faulkner—Indigenizing the Typology

**[59] ELECTRONIC SYMPOSIUM ■ RECENT DEVELOPMENTS IN MEXICAN AND CENTRAL AMERICAN PRECERAMIC RESEARCH****Room:** Wilson B**Time:** 1:00 PM–3:00 PM**Chairs:** Jon Lohse and Aleksander Borejsza**Participants:**

- Richard Lesure—Exchange and Interaction in Proto-Mesoamerica: A Comparison of Late Archaic and Early Formative Interregional Networks
- Aleksander Borejsza—Yuzanu 36, a Late Archaic Site in the Mixteca Alta

Thursday Afternoon, April 12

Keith M. Prufer—Early Human Biology, Ecology, and Archaeology in the Lowland Tropics of Central America  
 Guadalupe Sanchez Miranda—Pleistocene and Holocene People of Sonora  
 Luis Morett Alatorre—El Sitio Arcaico Temprano de las Estacas (Morelos) y Su Tecnología de Hogares  
 Arthur Joyce—Sourcing Preceramic obsidian from Las Estacas, Morelos, and Yuzanu 36, Oaxaca  
 Jon Lohse—Yuzanu 50, An Early Paleoindian Site in the Mixteca Alta  
 David Yelacic—Formation and Context of Sitio Chivacabe, Western Highland Guatemala  
 Guillermo Acosta-Ochoa—Preceramic Cultures of the Basin of Mexico  
 Silvia Gonzalez—Paleoindian Sites from Central Mexico: Paleoenvironment and Dating  
 Brigitte Faugère—Paleoindian and Archaic in North Centre and Western Mexico  
 Kenneth Hirth—The Esperanza to Middle Marcala Phase Subsistence Practices at El Gigante Rockshelter (11,000–7400 cal B.P.)  
 Barbara Voorhies—Archaic Period Lifeways on the South Pacific Coast of Mexico  
 Marcus Winter—Preceramic Occupations in the Valley of Oaxaca and the Southern Isthmus

**[60] FORUM ■ CHALLENGES IN TEACHING NAGPRA**

**Room:** Jefferson  
**Time:** 1:00 PM–3:00 PM  
**Moderator:** April Sievert

**Participants:**

April Beisaw—Discussant  
 Kathleen Fine-Dare—Discussant  
 Jessie Ryker-Crawford—Discussant  
 Marc Levine—Discussant  
 Anne Pyburn—Discussant  
 Sara L. Gonzalez—Discussant  
 C. Timothy McKeown—Discussant  
 Larry Zimmerman—Discussant

**[61] FORUM ■ ARCHAEOLOGY AND INNOVATIVE OUTREACH: BEYOND THE LECTURE**

**Room:** Johnson  
**Time:** 1:00 PM–3:00 PM  
**Moderators:** Paulina Przystupa and Hanna Marie Pageau

**Participants:**

Hanna Marie Pageau—Discussant  
 Emily Van Alst—Discussant  
 Daniel Kwan—Discussant  
 Paulina Przystupa—Discussant  
 Kristina Killgrove—Discussant  
 Katharine Ellenberger—Discussant  
 Lyle Balenquah—Discussant

Thursday Afternoon, April 12**[62] FORUM ■ FORENSIC ARCHAEOLOGY****Room:** Taft**Time:** 1:00 PM–3:00 PM**Moderator:** Kimberlee Moran**Participants:**

Sharon Moses—Discussant  
Craig T. Goralski—Discussant  
John Schultz—Discussant  
Ryan Seidemann—Discussant  
Eric Young—Discussant  
Dana Kollmann—Discussant  
Anna Chaussee—Discussant  
Ann Marie Mires—Discussant

**[63] GENERAL SESSION ■ GLOBAL ISSUES IN PUBLIC ARCHAEOLOGY AND CULTURAL HERITAGE****Room:** Tyler**Time:** 1:00 PM–3:00 PM**Chair:** Kristin De Lucia**Participants:**

1:00 Marcia Bezerra—Is There a Public Archaeology?: An Approach from Brazil  
1:15 Christen Erlingsson, Bruce Davenport and Susanne Bollerup Overgaard—  
Cultural Heritage-Based Reminiscence Sessions in Open-Air Museum Settings  
to Enhance Well-Being of Persons with Dementia  
1:30 Elizabeth Currie and Diego Quiroga—How to Invent Your Past. Cultural  
Appropriation or Adoption of Orphan Cultural Identity?  
1:45 Caitlin Curtis—Analyzing Urban and Industrial Threats to Heritage in Turkey  
Using Remote Sensing and GIS  
2:00 Russell Greaves, Karen Kramer and Christopher Dore—Ethnoarchaeology of  
Water Resources in a Landscape without Rivers: Using Limestone Solution  
Cavities to Study Settlement and Subsistence Activities in a Yucatec Maya  
Community, Mexico  
2:15 Alicia Gordon and A. Brooke Persons—Recent Investigations at the 18th  
Century Fort Frederik Archaeological Site and Cemetery, St. Croix, US Virgin  
Islands  
2:30 Kristin De Lucia and Enrique Rodríguez-Alegría—Digging in Churches:  
Community Archaeology in Xaltocan, Mexico  
2:45 Carsten Paludan-Müller—Conflict and Heritage

**[64] SYMPOSIUM ■ NEW RESEARCH ON LATE PRECERAMIC PERU: PERSPECTIVES FOR AN INTEGRATED VIEW****Room:** Madison A**Time:** 1:00 PM–3:15 PM**Chair:** Ana Mauricio**Participants:**

1:00 Kazuho Shoji, Takayuki Omori and Vanessa La Rosa—The Change and  
Chronology of Preceramic Mound-Building Practices at the Cruz Verde Site in  
the Chicama Valley, Peru  
1:15 Peiyu Chen, Ali Altamirano-Sierra, Carlos Osoro Mendives and Jhon Cruz  
Quiñones—Fishing, Shellfish Collecting, Hunting and Planting from Late  
Preceramic to Initial Period: A Case Study from Huaca Nagea, Viru, North Coast  
of Peru



Thursday Afternoon, April 12

- 1:30 Ana Mauricio—Los Morteros and Pampa de las Salinas: Early Monumentality and Environmental Change in Preceramic Peru
- 1:45 Matthew Piscitelli—The Extraordinary Case of the Late Preceramic Norte Chico
- 2:00 Bob Benfer—Late Preceramic Peruvian Effigy Mound Imagery
- 2:15 é Sara and Eisei Tsurumi—Renovation of Temples during the Kotosh Mito Phase: 2016 Excavations at Kotosh, Huanuco, Peru
- 2:30 Jose Narvaez—Archaeological Investigations in El Paraíso. A Late Preceramic Architectural Complex in Lima – Peru
- 2:45 Ari Caramanica—Reconstructing the Environmental History of El Paraíso, Chillón Valley
- 3:00 Jeffrey Quilter—Discussant

**[65] GENERAL SESSION ■ ANDEAN ARCHAEOLOGY: LATE AND LATE INTERMEDIATE HORIZONS****Room:** Washington Room 6**Time:** 1:00 PM–3:15 PM**Chair:** Jon Clindaniel**Participants:**

- 1:00 Izumi Shimada, Carlos Elera, Haagen Klaus, Alexandra Greenwald and Jenna Hurtubise—Large-Scale Human Sacrifice and Feasting at Sicán, Peru during the 11th-Century Mega-El Niño: A Multidisciplinary Vision
- 1:15 Jose Peña—Casma Domestic Life at the El Campanario Site, Huarmey Valley – Peru
- 1:30 Jon Clindaniel—Are Inka Khipu Knots Anything More than Numbers?: A Computational Investigation
- 1:45 Rodrigo Areche—Evaluando la explotación de los recursos malacológicos en el Cerro Azul prehispánico
- 2:00 Gabriela Ore Menendez and Steven A. Wernke—Using Multispectral Drone Imagery for Identification of Prehispanic Agricultural Features
- 2:15 Jessica Smeeks—A Post-Wari World: Late Intermediate Period Defensibility in the Huamanga and Huarpa Provinces of Peru
- 2:30 Kasia Szremski—Alternative Complexities in the Central Andes: An Anarchist Approach to Chancay Political Organization in the Huanangue Valley
- 2:45 Alonso Binimelis—Sistemas de arquitectura local e incaica durante el Periodo Tardío en las tierras altas de Arica y valle de Lluta, Chile
- 3:00 Melissa Litschi—The Biology and Mythology of Ancestor Lithification in the Andes

**[66] GENERAL SESSION ■ MORTUARY ARCHAEOLOGY IN THE AMERICAS****Room:** Madison B**Time:** 1:00 PM–3:00 PM**Chair:** Mary Ann Levine**Participants:**

- 1:00 Brittany Fletcher, Aliya Hoff, Samuel Mijal, Jason King and Jane E. Buikstra—Processing Personhood: Mortuary Activity from the Middle to Late Woodland in the Lower Illinois River Valley
- 1:15 Melanie Miller, Sabrina Agarwal and Carl Langebaek—Gender Divisions in Eating and Working: A Bioarchaeological Analysis of an Ancient Muisca Community (Sabana de Bogotá, Colombia, 1000–1400AD)
- 1:30 Nicole Slovak and John Rick—Who's Who? Investigating Historic Burials at Chavín de Huantar Peru Using Radiogenic Strontium Isotope ( $^{87}\text{Sr}/^{86}\text{Sr}$ ) Analysis

Thursday Afternoon, April 12

- 1:45 Emily Schach and Jane E. Buikstra—Gender at Chiribaya Alta: A Multiple Correspondence Analysis of Funerary Offerings
- 2:00 Jacob Bongers, Juliana Gómez Mejía and Colleen O'Shea—Modeling Late Prehistoric Mortuary Practice in the Middle Chincha Valley, Peru
- 2:15 Mary Ann Levine—The Burial Ground at Otstonwakín: Native American Mortuary Practices in 18th Century Pennsylvania
- 2:30 Connie Ericksen, Haagen Klaus, John Clark and Zachary Chase—Burial Plots: Finding Theatre in the Thanatology of Colonial North Coast Peru
- 2:45 Horvey Palacios, Traci Ardren, Julie Wesp and Travis Stanton—Maya Ossuaries: Body Processing and Collective Memory in the Terminal Classic

**[67] GENERAL SESSION ■ GLOBAL STUDIES ON SLAVERY****Room:** Truman**Time:** 1:00 PM–3:30 PM**Chair:** Lindsey Cochran**Participants:**

- 1:00 Mark Ludlow and Michael K. Kehoe—On Finding Smoke Town, a Late Eighteenth to Mid-Nineteenth Century, Rural Free Black Community Populated in Circa 1791 by Some of the 452 Manumitted Slaves of Robert Carter III
- 1:15 Carolyn Rock—Architectural Conformity vs. Slave Identity: An Example in Late Antebellum Georgia
- 1:30 Felicia Fricke—Slavery in the Dutch Caribbean: A Case for the Use of Qualitative Data in Sensitive Archaeological Contexts
- 1:45 Paul Farnsworth—The African-Caribbean Landscape of Wallblake Estate, Anguilla
- 2:00 David Mensah Abrampah—Slavery without Slaves: Archaeology of Frederikssted Plantation and Its Implications for Plantation Archaeology in Ghana
- 2:15 Colleen Betti—Porcelain Dolls and Marble Balls: The Role of Toys and Play in the Gendered Socialization of Enslaved Children
- 2:30 Craig Stevens—Maryland's Josiah Henson: A Tale of Black Resistance
- 2:45 Kelly Goldberg—Exploring the Material Culture of the 19th Century Slave Trade in Coastal Guinea
- 3:00 Lindsey Cochran—Geospatial Interpretations of Enslaved Landscapes in the Antebellum Georgia Lowcountry
- 3:15 Matthew Greer—Black Virginians and Locally Made Ceramics in the Shenandoah Valley

**[68] GENERAL SESSION ■ DIGITAL LANDSCAPES II – PHOTOGRAMMETRY, REMOTE SENSING AND DRONES****Room:** Washington Room 5**Time:** 1:00 PM–3:30 PM**Chair:** Corey Hoover**Participants:**

- 1:00 Daniel Plekhov—Investigating the Reforestation of Anthropogenic Landscapes through Remote Sensing
- 1:15 Alicia Caporaso, Kristine DeLong, Douglas Jones and Michael Miner—The Submerged Cypress Forest and the Paleolandscape of the Gulf of Mexico
- 1:30 Tiago Miguel Fraga, Jorge Freire and Tiago Dores—Reading the Unseen: The Lagoa de Óbidos Maritime Cultural Landscape

Thursday Afternoon, April 12

- 1:45 Michael Searcy, Scott Ure, Michael Mathiowetz, Jaclyn Eckersley and Haylie Ferguson—Aerial Imaging Using UAVs (Drones) in Chihuahua and Nayarit, Mexico, to Map and Archive Archaeological Sites
- 2:00 Brady Liss, Matthew Howland and Thomas E. Levy—Testing Google Earth Engine for Remote Sensing in Archaeology: Case Studies from Faynan, Jordan
- 2:15 Benjamin Vining and Hali Thurber—Detecting el Niño's Disasters: Remote Sensing of Recent ENSO Events in Northern Peru and Implications for Prehispanic Societies
- 2:30 Corey Hoover and Patrick Mullins—Exploring Classification Methods for Drone Based Imagery on the Peruvian North Coast
- 2:45 Jesse Casana, Austin Chad Hill and Elise Jakoby Laugier—Drone-Acquired Thermal and Multispectral Imagery as a Tool in Archaeological Prospection
- 3:00 William Whitehead—Using Drones for Exploring the Links between Vegetation and Traditional Archaeological Survey: An Example from Arizona
- 3:15 Abel Traslaviña, James Zimmer-Dauphinee and Steven A. Wernke—Historical Photogrammetry: Bringing a New Dimension to Historic Landscape Reconstruction

**[69] GENERAL SESSION ■ CERAMIC ANALYSIS****Room:** Hoover**Time:** 1:00 PM–3:30 PM**Chair:** Shannon Cowell**Participants:**

- 1:00 Shannon Cowell—Micaceous Ceramics at Los Ojitos, New Mexico
- 1:15 Lisa DeLeonardis—The Hidden Faces of Santa Cruz de Lancha: Ceramics and Structure in Eighteenth-Century Architecture
- 1:30 Carol Rodríguez—A Methodological Proposal for the Analysis of Style in Ceramics
- 1:45 Karime Castillo, Patricia Fournier and Roberto Junco—Dehua Porcelain in New Spain: Approaches to the Production of Fine Chinese Porcelains
- 2:00 Michelle Birnbaum—Prehistoric Ceramic Production Variation during the Early and Middle Woodland at the Richter Site, Door County, Wisconsin
- 2:15 Christopher Garraty—Non-native Incorporation of Native American Technologies in Historic Period Arizona
- 2:30 Francisco Pugliese, Roberto Ventura Santos, Carlos Zimpel and Eduardo Neves—Monte Castelo Shellmound and Early Ceramic Technologies in Amazon: A Perspective on Long-Term Landscape Management and the Origins of Pottery in the Americas
- 2:45 Charles Kolb—Revisiting Clay Smoking Pipes
- 3:00 William Barse—Ronquin Re-visited Yet Again: New Radiocarbon Dates and Their Implication for Orinocan Ceramic Chronology
- 3:15 Jaclyn Eckersley—The Pottery of Beef Basin and Its Cultural Implications

**[70] GENERAL SESSION ■ CONSERVATION AND MUSEUM STUDIES****Room:** Wilson C**Time:** 1:00 PM–3:30 PM**Chair:** Rebecca Salem**Participants:**

- 1:00 Yoko Nishimura—Japanese Archaeological Artifacts in the U.S. Museums: A Case Study from the World's Columbian Exposition of 1893
- 1:15 Daniela Klokler and Fernando Almeida—Valley of No Masters: Exchanging Experiences at the Valley of the Masters, Northeastern Brazil

Thursday Afternoon, April 12

- 1:30 Ashleigh Breske—Politics of Repatriation, Formalizing Indigenous Cultural Property Rights
- 1:45 Jaye Smith, Kelley Hays-Gilpin, Linda Pierce and Chris Downum—The Ray Robinson Collection – A Successful Collaboration to Save Safford Basin Archaeological Artifacts
- 2:00 Martin Berger—From a Cave near Tehuacán? Reconstructing Object Histories of Looted Postclassic Mesoamerican Turquoise Mosaics
- 2:15 Rebecca Salem and Effie F. Athanassopoulos—Archaeology and Tourism in the Early 20th Century: Pompeii through a Photographic Archive
- 2:30 Rebecca B. Gonzalez Lauck—State of Conservation of the La Venta Stone Sculpture Corpus
- 2:45 Ariel Peasley and Georgia Fox—Digging the Dockyard: An Analysis of Curation Practices in Antigua
- 3:00 Emily Dean—The Mystical Past and the Lucrative Present: New Age Archaeological Tourism in the Andes
- 3:15 Ellen Hoobler—Cultural Exchange in Times of Crisis: A Historical Perspective from Mexico of the 1930s and '40s

**[71] GENERAL SESSION ■ SOUTHWEST ASIA: BRONZE, IRON AND HISTORIC PERIODS****Room:** McKinley**Time:** 1:00 PM–3:30 PM**Chair:** Uri Berger**Participants:**

- 1:00 Seth Price—Abu Shusha: Integrating and Correlating Surface Features with Magnetic Susceptibility
- 1:15 Mehrnoush Soroush, Alireza Mehrtash and Emad Khazraee—Automated Qanat Detection: Examining the Application of Deep-Learning in Archaeological Remote Sensing
- 1:30 Uri Berger and Gonen Sharon—An Israeli (real COOL) Dolmen
- 1:45 Katheryn Twiss, Melina Seabrook and Michael Charles—Plant and Animal Remains from Old Babylonian Ur
- 2:00 Mitra Panahipour—Patterns of Land-Use and Political Administration beyond the Core Areas of the Sasanian Empire
- 2:15 Karim Alizadeh—Climate Change or Muslims? Collapse of the Late Antique Sasanian Settlements, Mughan Steppe, Iranian Azerbaijan
- 2:30 Sarah MacIntosh, Levent Atici and Sachihito Omura—Assessing the Correlation between Bone Artifacts and Body Part Profiles: A Case Study from the Central Anatolian Site of Kaman-Kalehöyük
- 2:45 Paige Paulsen—Geospatial Analysis of Tumuli in the North Central Anatolian Plateau
- 3:00 Bulent Arıkan—Modeling the Changes in the Surface Processes at Arslantepe (Malatya) during the Early Bronze Age-I (ca. 5000–4750 cal. BP)
- 3:15 Gonca Dardeniz Arıkan and Tayfun Yildirim—Metal and Vitreous Production Technologies at the Early Bronze Age Resuloğlu (Central Anatolia, Turkey)

Thursday Afternoon, April 12**[72] SYMPOSIUM ■ RESEARCH AND MANAGEMENT OF TRADITIONAL CULTURAL PROPERTIES IN THE SOUTHWEST****Room:** Taylor**Time:** 1:00 PM–3:45 PM**Chairs:** Maren Hopkins and T. J. Ferguson**Participants:**

- 1:00 Michael Spears and Saul Hedquist—Overview of Traditional Cultural Properties in Relation to the NHPA and Bulletin 38
- 1:15 Barry Price Steinbrecher, Stewart B. Koyiyumptewa and Maren Hopkins—Research Protocols for Documenting Hopi Traditional Properties
- 1:30 J. Andrew Darling, Barnaby V. Lewis and M. Kyle Woodson—Nuh nuhy Himdag. The Role of Song in the Identification of O'Odham Traditional Cultural Properties
- 1:45 Nanebah Nez—Oak Flat as a Traditional Cultural Property / Future Copper Mine
- 2:00 Questions and Answers
- 2:15 Kurt E. Dongoske and Giorgio Hadi Curti—Re-indigenizing Mitigation Processes and the Productive Challenge to CRM
- 2:30 Mark Slaughter and Lauren E. Jelinek—Lessons Learned through Tribal Consultation
- 2:45 Rosemary Sucec—Working at Our Edges: Managing Traditional Cultural Properties in the Desert Southwest
- 3:00 Adam Sezate, Courtney Rose, Ian Milliken and Roger Anyon—A Local Government and Tribal Collaborative Approach to Cultural Resources Management
- 3:15 Chip Colwell—Discussant
- 3:30 Octavius Seowtewa—Discussant

**[73] GENERAL SESSION ■ ICONOGRAPHY AND ROCK ART****Room:** Wilson A**Time:** 1:00 PM–3:45 PM**Chair:** Michele Hayward**Participants:**

- 1:00 Shadab Tabatabaeian—Eyes in the Dark: Explaining the Universal Ritual Function of Dark Zones via Eye-tracking Technology
- 1:15 James Farmer—Recontexting, Decontexting, and Un-Contexting the Great Gallery: "Alternative" Iconography and Romantic Exploitations of the Archaic Barrier Canyon Style
- 1:30 Michele Hayward, Michael Cinquino, Frank Schieppati and Don Smith—Shrines, Pilgrims, Pilgrimages in the Caribbean?
- 1:45 Maxwell Forton—House of Shields: Social and Spatial Trends of Rock Art in the Tsegi Region
- 2:00 Marissa Molinar—Seeing Is Believing: The Documentation of Rock Art
- 2:15 Carolina Guedes—The Rock-Art of Central-West Brazil: New Studies from Chapada dos Guimarães / MT
- 2:30 Kim Cox and Carolyn Boyd—Using Rules from the Texas Lower Pecos to Interpret Jornada Mogollon Rock Art
- 2:45 Christopher Davis—Conspicuous Knowledge Transmission through Amazonian Cave Art
- 3:00 Ruth Musser-Lopez—Virgin Puebloan and Fremont Rock Art at Petroglyph Corral
- 3:15 Lauren Lippiello—Watercraft: The Earliest Temples in Egypt
- 3:30 Timothy Hoxha—An Archaeological Analysis of Identity as Presented in Southwestern Indigenous Rock Art

Thursday Afternoon, April 12**[74] GENERAL SESSION ■ DATING TECHNIQUES****Room:** Harding**Time:** 1:00 PM–3:45 PM**Chair:** Linda Scott Cummings**Participants:**

- 1:00 Thibaut Devièse, Thomas W. Stafford Jr., Michael Waters and Tom Higham—Advanced AMS 14C Dating of Contaminated Bones Associated with North American Clovis and Pre-Clovis Butchering Sites
- 1:15 César Méndez, Andrés Troncoso, Amalia Nuevo Delaunay, Antonio Maldonado and Daniel Pascual—High Resolution Chronology of the Human Occupation South of Choapa Basin (31°34' -32° S), Chile
- 1:30 Linda Scott Cummings, R. A. Varney, Thomas W. Stafford Jr., Scott Anfinson and Patricia Emerson—Dates Too Old?: Mixed Carbon Reservoirs Integrate Carbon from Freshwater Reservoirs and the Atmosphere
- 1:45 Heidi Van Etten—Reinvestigating the Chronostratigraphy of the Early Paleoindian Components of Hell Gap, Locality 1
- 2:00 Michael Price—Bayesian Reconstruction of Past Demography
- 2:15 G. Logan Miller—Dating the Emergence and Decline of Middle Woodland Blade Technology
- 2:30 Eric Blinman, Marvin Rowe and J. Royce Cox—Plasma Micro-sampling in Radiocarbon Dating: Approaching a Non-destructive Model
- 2:45 Kevin Nolan, Mark Seeman and Mark Hill—Time, Scale, and Community: Hopewell Unzymotic Social Systems
- 3:00 Benjamin Bellorado—Fancy Threads and Tree-Ring Dates: New Chronometric Controls for the Development of Cotton Weaving Technologies and Ritual Textile Production in the San Juan Basin, A.D. 1150–1300
- 3:15 J. Royce Cox, Eric Blinman and Shelby A. Jones-Cervantes—Improving the Effectiveness of Archaeomagnetic Dating in the Southwest
- 3:30 Kat Loftis, Alexander Cherkinsky and Robert Speakman—Evaluating Collagen Pretreatment with XAD Resin

**[75] SYMPOSIUM ■ LANDSCAPES OF WARFARE: A COMPARATIVE PERSPECTIVE****Room:** Maryland A**Time:** 1:00 PM–4:00 PM**Chairs:** Hugo Ikehara Tsukayama and Juan Vargas Ruiz**Participants:**

- 1:00 James Williams—Communities, Violence and Fortification: A Study of Longshan Landscapes
- 1:15 Hernando Giraldo Tenorio—Defensive Landscape and the Naturalization of Social Inequalities in Southwestern Colombia (2200–1800 BP)
- 1:30 Juan Vargas Ruiz—Prehispanic Warfare, Leadership and Demography in the Llanos of the Orinoco, Northern South America
- 1:45 Kerry Nichols—Late Woodland Cultural Adaptations in the Lower Missouri River Valley: Archery, Warfare, and the Rise of Complexity
- 2:00 Hugo Ikehara Tsukayama—Scars of Warfare: Early Fortifications and Politics in Coastal Ancash (Peru)
- 2:15 Weston McCool—Regional Defensive Strategies and Chronic Warfare in the Southern Nasca Region
- 2:30 Tiffany Earley-Spadoni—Fear Written Large: Systematic Warfare and the Ancient Empire of Urartu
- 2:45 Romuald Housse—Beyond the Wall: Defensive Arrangements, Conflicts and Coexistence Inside an Andean Oasis during the Late Intermediate Period (1100–1450 AD)

Thursday Afternoon, April 12

- 3:00 Lauren Kohut—Legacies of War: Fortified Landscapes and Political Transformation during the Late Prehispanic in the Colca Valley (Arequipa, Peru)  
 3:15 Igor Chechushkov—Winter Is Coming: Is 'Fortification' Always Fortification?  
 3:30 Elizabeth Arkush—Discussant  
 3:45 Questions and Answers

**[76] SYMPOSIUM ■ EMERGING FROM THE SHADOW OF THE CEIBA: RECENT RESEARCH IN MAYA PALEOETHNOBOTANY**

**Room:** Maryland B

**Time:** 1:00 PM–3:45 PM

**Chairs:** Jessica Devio and Mario Zimmermann

**Participants:**

- 1:00 Mario Zimmermann—Examining the Bread-Basket Model: Puuc Intra and Inter-site Diversity in Plant Foods  
 1:15 Scott Fedick, Gerald Islebe and Louis Santiago—Exploring the Edible Forest: Food Values and Archaeological Visibility of Indigenous Food Plants of the Maya Lowlands  
 1:30 Jessica Devio—Assessing Botanical Diversity of Late-to-Terminal Classic Households at Xunantunich, Belize  
 1:45 Anarrubenia Capellin Ortega—Investigating Ancient Maya Foodways in the Copan Valley, Honduras: Macrobotanical Analysis from Late Classic to Postclassic Middens in the Rio Amarillo East Pocket  
 2:00 David L. Lentz, Nicholas Dunning and Vernon Scarborough—Agriculture, Land Management and Expressions of Elite Control at the Ancient Maya City of Tikal  
 2:15 Sebastian Salgado-Flores—Prey Choice and Politics: Modelling Postclassic Maya Wood Selection at La Punta, Chiapas, Mexico  
 2:30 Rebecca Friedel and M. Kathryn Brown—Communing with the Gods: The Paleoethnobotany of Fire Rituals  
 2:45 Cameron L. McNeil—Capturing the Fragrance of Ancient Copan Rituals: Floral Remains from Maya Tombs and Temples  
 3:00 Mallory Melton—Towards a Social Paleoethnobotany of Urbanization: Integrating Macrobotanical and Microbotanical Data to Explore Foodways at La Blanca, Guatemala  
 3:15 Shanti Morell-Hart—Discussant  
 3:30 Questions and Answers

**[77] GENERAL SESSION ■ ARCHAEOOMETRY AND MATERIALS ANALYSIS**

**Room:** Thurgood Marshall Ballroom East

**Time:** 1:00 PM–4:00 PM

**Chair:** Zuzana Chovanec

**Participants:**

- 1:00 Rebecca Bartusewich—Pottery Production at Idalion, Cyprus: Investigating First Millennium BCE Politics and Culture through Ceramic Petrography  
 1:15 Kimberly Foecke, Douglas Meier, Edward Vicenzi, Russell Graham and Adam Creuziger—Microanalysis of Taphonomic Alteration on Skeletal Material - A Novel Approach to Identifying Damaging Sulfur Compounds  
 1:30 Elisandro Garza—*Spondylus* Shells in Pre-Columbian Copan: Their Religious and Economic Significance  
 1:45 Caroline Solazzo and Jean Soulat—The Trade of Tortoiseshell between the Caribbean and Europe during the 17th–18th Centuries: An Archaeological and Biomolecular Approach

Thursday Afternoon, April 12

- 2:00 Karine Tache and Roland Tremblay—A Taste for Fish among the Saint Lawrence Iroquoians of the Montreal Region
- 2:15 Mia Carey—Artifacts Addicts Anonymous: The Road to Recovery from Negative Data
- 2:30 Robert H. Tykot and Andrea Vianello—Prehistoric Obsidian Use in Southern Italy: Primary Acquisition and Down-the-Line Exchange in Calabria, Basilicata, and Campania
- 2:45 Nathaniel Kitchel and Heather Rockwell—Paleoindian Archaeology in the Munsungun Lake Region: Beyond Norway Bluff
- 3:00 Michael Mlyniec, Roger Doonan, Duško Šljivar, Yvette Marks and Sarah MacKinnon—Experimental Reconstructed Vinča Gradac Phase Copper Smelting
- 3:15 Timothy Dennehy, Christopher Merriman and Keith M. Prufer—Lithic Technological Changes from the Paleoindian to the Late Archaic: A Pilot Study
- 3:30 Lee Drake—An Open-Source Calibration Framework for XRF
- 3:45 Zuzana Chovanec—The Organic Residue Analysis from the Early Bronze Age Site of Sotira Kaminoudhia in Cyprus

**[78] SYMPOSIUM ■ MARINE ARCHAEOLOGY: RETROSPECTIVE/PROSPECTIVE****Room:** Delaware B**Time:** 1:00 PM–4:15 PM**Chair:** Rob Rondeau**Participants:**

- 1:00 Della Scott-Ireton, Jeffrey Moates and Nicole Grinnan—SSEAS of Change: Sport Divers, Heritage Monitoring, and the Future of Submerged Resources Management
- 1:15 Alexis Catsambis—Preserving the U.S. Navy's Sunken Military Craft: Transcending Time and Space
- 1:30 Akatsuki Takahashi—Underwater Cultural Heritage Protection and Management in Pacific Island States
- 1:45 Madeline Fowler—The Indigenisation of Maritime Archaeology
- 2:00 Rob Rondeau—Archaeological Geovisualization Underwater
- 2:15 Mark Fissel—Marine Archaeology's Influence on Interpretations of Early Modern Warfare, 1975–2020
- 2:30 Ben Ford—Public Engagement through Maritime Landscapes
- 2:45 James Delgado—Telepresence Enabled Maritime Archaeology
- 3:00 Hilde Vangstad—Man and Machine – New Methods for Excavation, Documentation and Reconstruction of 29 Medieval and Renaissance Boat Wrecks from Oslo Harbour, Norway
- 3:15 Jorge Freire—The Future of Maritime Archaeology of Portugal: The Strategy for Socialization and Education. The Example of Cascais
- 3:30 Michael Waters and Jessi Halligan—Page-Ladson and Submerged Late Pleistocene Sites along the Aucilla River, Florida, and their Importance to First Americans Archaeology
- 3:45 Nia Ridwan—The Development of Marine Archaeology in Indonesia and Southeast Asia Region and the Current State of Underwater Heritage Preservation and Management
- 4:00 Amanda Evans and Matthew Keith—Submerged Landscapes and Shipwrecks: The Fractioning of Marine Archaeology(?)



Thursday Afternoon, April 12**[79] SYMPOSIUM ■ PAPERS IN HONOR OF DENNIS STANFORD****Room:** Washington Room 4**Time:** 1:00 PM–4:15 PM**Chair:** E. James Dixon**Participants:**

- 1:00 William Fitzhugh—Shock and Awe: An Insider's View of the "Stanford Phenomenon"
- 1:15 E. James Dixon—Dennis Stanford: The Alaska Years and Beyond
- 1:30 Margaret Jodry—Listening to One Another: Contributions of Indigenous People to the Life and Research of Dennis Stanford
- 1:45 Gary Haynes—Elephant-Hunting with D. Stanford
- 2:00 Russell Graham, Dennis Stanford, E. James Dixon and Thomas W. Stafford Jr.—Paleoecology of the Late Pleistocene Fauna from the Lamb Spring Site, Colorado
- 2:15 Bonnie Pitblado—Dr. Dennis J. Stanford: A Legacy of Research in Colorado Paleoindian Archaeology
- 2:30 Questions and Answers
- 2:45 Loren Davis, Alexander Nyers, Jillian Maloney, Neal Driscoll and Shannon Klotsko—Searching Oregon's Outer Continental Shelf for Submerged First Americans Sites: Theory, Methods, and Recent Discoveries
- 3:00 Darrin Lowery—A Chesapeake Bay Paleoindian Legacy: Marine Transgression, Shoreline Erosion, and Archaeology
- 3:15 Ciprian Ardelean—The Chiquihuite Cave in Zacatecas, Mexico: Cultural Components, Lithic Industry and the Role of This Pleistocene Site in the Peopling of America
- 3:30 Tom Dillehay—Dennis Stanford's Legacy in Latin America
- 3:45 Michael Collins—Dennis Stanford at SI: The Man, The Place, The Career
- 4:00 Bruce Bradley—Legends of the Dinsmore Hilton

**[80] SYMPOSIUM ■ THE FLEXIBLE MAYA CITY: ATTRACTION, CONTRACTION, AND PLANNING IN CLASSIC URBAN DYNAMICS****Room:** Maryland C**Time:** 1:00 PM–4:15 PM**Chairs:** Damien Marken and Marie Arnaud**Participants:**

- 1:00 Damien Marken and Charlotte Arnaud—Classic Maya Urban Settlement Dynamics: Planning and Mobility Introduced
- 1:15 Daniela Triadan and Takeshi Inomata—The Roots of Urbanization: Early Middle Preclassic Transformations to a Sedentary Lifestyle at Ceibal, Guatemala
- 1:30 Thomas Garrison—Living in a Contested Landscape: Adapting Settlement Decisions in the Buenavista Valley, Peten, Guatemala
- 1:45 Philippe Nondédéo, Eva Lemonnier, Julien Hiquet, Louise Purdue and Cyril Castanet—Settlement Pattern and Land Use Dynamics at Naachtun: Shaping an Agrarian Maya Town
- 2:00 Timothy Murtha—Livelihoods and Opportunities: Household, Land Use and Landscape Change at Tikal
- 2:15 Benjamin Vis—An Inhabitant's Perspective of Material Urban Structure at Chunchucmil
- 2:30 Julien Hiquet, Julien Sion and Divina Perla-Barrera—Households, Growth, Contraction, and Mobility at the Classic Maya Center of Naachtun
- 2:45 Elsa Menéndez, Damien Marken and Keith Eppich—Late-Terminal Classic Community Mobility and Migration at El Perú-Waka'

Thursday Afternoon, April 12

- 3:00 T. Manahan—Household Resilience, Political Collapse, and Community Transformation: Late-Terminal Classic Transition of the Ancient Maya Center of Xuenkal  
 3:15 Timothy Hare—Walking through Mayapán  
 3:30 Marie Arnauld—Discussant  
 3:45 John Walker—Discussant  
 4:00 Monica L. Smith—Discussant

**[81] GENERAL SESSION ■ SOUTHEASTERN NORTH AMERICA FROM PREHISTORY TO THE CONTACT PERIOD****Room:** Marriott Salon 3**Time:** 1:00 PM–4:15 PM**Chair:** Rebecca Bulp**Participants:**

- 1:00 William Hranicky and Jack Hranicky—Paleoamerican Archaeology in Virginia  
 1:30 Alexander Craib—Dalton Mobility in the Tennessee River Valley: An Assessment of Raw Material Use and Tool Curation  
 1:45 Lindsay Bloch, Neill Wallis and George Kamenov—Analysis of Surface Treatments on Weeden Island Red Vessels via LA-ICP-MS  
 2:00 Christina Sampson—Late Pre-Columbian Craft and Community at the Weeden Island Site (8Pi1)  
 2:15 Amanda Hall—Uncovering the Mystery of the Lamar-like Clay Objects  
 2:30 Juliet Morrow, J. Christopher Gillam and Brandy Dacus—Paleoindians of Arkansas: From the Mountains to the Mississippi of the Interior Southeast  
 2:45 Katherine Jones, Ashley Smallwood, Thomas Jennings, Jerald Ledbetter and Charlotte Pevny—Paleoindian and Early Archaic Southeast: Twenty Years of Georgia Archaeology  
 3:00 Dawn Rutecki—Movement and Places Between: The Power of Raccoons  
 3:15 Alice Muntz—Understanding Manifestations of Public Ritual in Late Mississippian Pottery: A Comparison of Millstone Bluff and Dillow's Ridge Ceramic Assemblages  
 3:30 Cameron Howell—Ritual Circuits and the Distribution of Exotic Sherds in Hopewell Contexts  
 3:45 Erik Porth—A Re-evaluation of Moundville's Collapse  
 4:00 Rebecca Bulp—Put What? in Your Pipe and Smoke It

**[82] SYMPOSIUM ■ SOCIOPOLITICAL INTEGRATION IN PREHISPANIC NEIGHBORHOODS: COMPARATIVE PERSPECTIVES***(Sponsored by Center for Comparative Archaeology—University of Pittsburgh)***Room:** Lincoln 4**Time:** 1:00 PM–4:30 PM**Chairs:** Gabriela Cervantes and John Walden**Participants:**

- 1:00 Matthew Helmer and David Chicoine—Variations in Settlement Patterns and Neighborhood Organization in Early Horizon Peru  
 1:15 Lacey Carpenter—Neighborhood Organization in Early States: Exploring Spatial Variability at El Palenque  
 1:30 Jacob Welch and Scott Hutson—Neighborhoods and the Constitution of Authority  
 1:45 Adrian Chase—Understanding Infrastructural Power, Collective Action, and Urban Form: Situating Neighborhoods and Districts at Caracol, Belize

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- 2:00 Gabriela Cervantes—The Sican Capital: Neighborhoods and Urban Organization in Pre-Columbian Peru
- 2:15 Amy Thompson, Jillian Jordan and Keith M. Prufer—Household Distributions and Social Organization of the Ancient Maya in Southern Belize
- 2:30 David Pacifico and Melissa Vogel—Neighborhoods and Urban Political Organization at El Purgatorio, Peru ca. AD 700–1400
- 2:45 John Walden, Michael Biggie, Kyle Shaw-Müller, Anais Levin and Rafael Guerra—Neighborhood Integration in Low Density Cities Which Follow a Divergent ('Outside-In') Urban Trajectory
- 3:00 Robyn Cutright and Carlos Osorio Mendives—A Tale of Two Cities?: Neighborhood Identity and Integration at Ventanillas
- 3:15 Kristin Landau—The Dynamics of State Integration: A Neighborhood Perspective from San Lucas, Copán, Honduras
- 3:30 Shawn Morton and Meaghan Peuramaki-Brown—Spatial Structure and Ancient Neighbourhoods: A Re-evaluation of Methods and Interpretations at Teotihuacan, Mexico
- 3:45 Donna Nash—Cerro Mejía: A Wari Community Divided?
- 4:00 Jerry D. Moore—Discussant
- 4:15 Scott Hutson—Discussant

**[83] SYMPOSIUM ■ BEYOND CENTRALITY: BRIDGING NETWORK APPROACHES THROUGH ARCHAEOLOGICAL NARRATIVES**

**Room:** Delaware A

**Time:** 1:00 PM–4:30 PM

**Chairs:** Barbara Mills and Stefani Crabtree

**Participants:**

- 1:00 Adam Rorabaugh—Precontact Coast Salish Seasonality in Social Networks: A Modeling Approach
- 1:15 Matt Peeples, Barbara Mills and Jeffery Clark—The Risks and Rewards of Network Position in the Chaco World
- 1:30 Erik Gjesfeld, William Brown and Ben Fitzhugh—A Probabilistic Approach to Constructing Networks in the Kuril Islands
- 1:45 Kathryn Harris—Lithics and the Late Prehistoric: Networks and Interaction on the Southeastern Columbia Plateau
- 2:00 Claudine Gravel-Miguel—Taught or Copied? Using 2-Mode Network Visualization to Distinguish between the Two
- 2:15 Fiona Coward—'All things being equal'? Multiplex Material Networks of the Early Neolithic in the Near East
- 2:30 Questions and Answers
- 2:45 Stefani Crabtree—Using Food Web Models to Examine Desert Networks in the American Southwest and Western Australia
- 3:00 Mark Golitko, James Zimmer-Dauphinee and John Edward Terrell—A Dagger to the Heart? Testing Assumptions of Archaeological Network Analysis with New Guinean Ethnographic Collections
- 3:15 Jacob Lulewicz—Multilayer Networks and Relational Plurality: The Scales and Sources of Social Capital across Southern Appalachia, A.D. 1150–1350
- 3:30 Lewis Borck, Corinne L. Hofman, Manfred Schäfer, Angus A. A. Mol and Daniel Weidele—Fingerprints of Community: Decolonizing Archaeological Data Analysis through Networks
- 3:45 Anna Collar—Going Deeper: Can We Use Network Approaches to Reconstruct Memory, Meaning and Emotion?
- 4:00 Jennifer Dunne—Discussant
- 4:15 Carl Knappett—Discussant

Thursday Afternoon, April 12**[84] SYMPOSIUM ■ SHELL MIDDENS: FORMATION, FUNCTION, SURVEY, AND ENDANGERED CULTURAL/PALEOENVIRONMENTAL HERITAGE***(Sponsored by GIG)***Room:** Washington Room 3**Time:** 1:00 PM–4:30 PM**Chairs:** Alice R. Kelley and Jacquelynn Miller**Participants:**

- 1:00 Alice R. Kelley—Discussant
- 1:15 Shari Silverman—Geoarchaeology of Lwalb Old Channel One (45KI815), South Park, Seattle, Washington
- 1:30 Philip Kaijankoski, Brian Byrd, Michelle Goman, Jack Meyer and Manuel Palacios-Fest—Sea Level Rise and Shell Mound Inundation within the Islais Creek Estuary, San Francisco, California
- 1:45 Leslie Reeder-Myers and Kathryn Cross—Scallop, Clam, and Oyster: 4500 Years of Shellfish Harvest on the Rappahannock River, Virginia
- 2:00 Thomas Pluckhahn, Kendal Jackson and C. Trevor Duke—In Small Organisms Forgotten: Micro-fauna from Shell Middens at Crystal River (8CI1) and Roberts Island (8CI41) as Potential Proxies for Paleo-climate
- 2:15 Richard Weinstein, Amanda Evans and Jessica Kowalski—Investigating Subsidied and Drowned Shell Middens in Coastal Louisiana: Research at Sites 16SB47 and 16SB153
- 2:30 Questions and Answers
- 2:45 Karen Stevens, Katharine Alexander and Alexander Metz—New Approaches to Old Questions: Current Research Objectives for the Green River Valley Shell Midden Archaic, Kentucky, USA
- 3:00 Emily Blackwood and Kate Pontbriand—Seasonal Analysis of Four Coastal Archaeological Sites in Eastern Maine Using Mollusks
- 3:15 Matthew Betts and Gabriel Hrynck—Introducing COASTAL in Nova Scotia: Community Observation, Assessment, and Salvage of Threatened Archaeological Legacy
- 3:30 Emily Jane Murray and Sarah Miller—Engaging the Public at Shell Middens to Address Climate Change Impacts: Heritage Monitoring Scouts (HMS Florida) at Shell Bluff Landing (8SJ32)
- 3:45 Jacquelynn Miller, Alice R. Kelley, Joseph T. Kelley, Daniel Belknap and Arthur Spiess—Ground-Penetrating Radar as a Rapid Cultural Resource Management Technique for Shell Midden Delineation
- 4:00 Paul Roscoe and Alice R. Kelley—Middens or Monuments? The Shell Middens of Maine and the Construction of Peace
- 4:15 Daniel H. Sandweiss—Discussant

**[85] GENERAL SESSION ■ GLOBAL APPROACHES TO LANDSCAPE ARCHAEOLOGY****Room:** Lincoln 3**Time:** 1:00 PM–4:30 PM**Chair:** Alexander Brown**Participants:**

- 1:00 William Balco, Scott Kirk and Michael J. Kolb—Pixellated Survey: Archaeology at Monte Bonifato, Sicily
- 1:15 Jennifer Huebert and Melinda S. Allen—Arboriculture, Translocated Flora, and Ecological Inheritance in the Marquesas Islands, East Polynesia
- 1:30 Deanna Bailey—Landscape Archaeology & the Irish Chalcolithic – Early Bronze Age: Discovering Termon, Co. Clare, Ireland
- 1:45 Jennifer Shaffer Foster—Healing Places and Objects in Irish Archaeology
- 2:00 Alexander Brown—The Archaeology of Gossip: Delineating the Space of

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- Interpersonal Performance
- 2:15 Justin Reamer—Planting the Empty Spaces: Estimating Field Size from Storage Pits in the Upper Delaware Valley
- 2:30 Sarah Kurnick—Political Authority and the Creation of Wilderness: American National Parks and Mexican Eco-Archaeological Parks
- 2:45 Jean Larmon and Lisa Lucero—Cara Blanca Pool 6: Colonial Logging and the Evolving Landscape
- 3:00 Britta Spaulding—Forgotten or Remembered? Rural-Urban Connections in the Modern and in the Past
- 3:15 Alyssa Scott—Tuberculosis Sanatoriums: Historical Archaeology, Landscape, and Identity
- 3:30 Noa Corcoran Tadd—Landscapes of Mobility in the South-Central Andes: From Chiefly Networks to Colonial Markets (AD 1100–1800)
- 3:45 Jonathan Libbon, Karen Reed, Aidan McCarty, Erica Birkner and Seth Mitchell—From the Hills of Appalachia to the Shores of Lake Erie: Landscape Archaeology in Northern Ohio
- 4:00 Maria Rosa Iovino, Salvatore Chilardi, Güner Coskunsu, Anita Crispino and Giuseppe Sabatino—Lithic Raw Material Procurement and Mobility in a Geological Diversed Environmental Setting in Prehistoric Eastern Sicily
- 4:15 Amy Roache-Fedchenko—Spatial Modeling of 18th Century Blacksmith Shops

**[86] GENERAL SESSION ■ GLOBAL APPROACHES TO PALEOETHNOBOTANY****Room:** Washington Room 2**Time:** 1:00 PM–4:30 PM**Chair:** Virginia Mcrostie**Participants:**

- 1:00 John Staller—High Altitude Maize (*Zea mays* L.) Cultivation in the Lake Titicaca Basin and Endemism
- 1:15 Alex Frey—Tastes of Home: Food Cultures of Roman Britain Auxiliary Soldiers
- 1:30 Lisbeth Louderback, Nicole Herzog, Bruce Pavlik and Tom Dillehay—Re-evaluating the Earliest Evidence for Wild Potato Use in South-Central Chile
- 1:45 Lindi Masur—Food Production in the Borderlands: Paleoethnobotanical Investigations of the Western Basin Tradition in Ontario
- 2:00 Fatemeh Ghaheeri—Neo-Assyrian Empire: Agriculture and Agricultural Strategies Based on Phytolith Analyses
- 2:15 Davide Zori, Colleen Zori, Veronica Ikeshoji-Orlati and Deirdre Fulton—Eating and Drinking in the Medieval Castle of San Giuliano (Province of Lazio, Italy)
- 2:30 Jose Garay-Vazquez, Michele Wollstonecroft and Dorian Fuller—“Tell me what you are eating and I tell you who are you”: Differences in Subsistence Systems of Elite and Non-Elite Gamo Society of the Ethiopia Highlands during Historical Times
- 2:45 Christopher Ball—Micro-habitat Production in the Late Woodland Period
- 3:00 Janine Billadello and Anarrubenia Capellin Ortega—Testing Methods of Microbotanical Analysis on Samples from the Copan Valley, Honduras
- 3:15 Cayla Colclasure, Megan Belcher, Jon Russ, Stephen Carmody and Martin Walker—Analyzing Late Woodland Pipe Fragments from the Topper Site (38AL23): Exploring the Botanical, Social, and Ritual Intersections of Smoking
- 3:30 Virginia Mcrostie, Eugenia Gayo, Claudio Latorre, Calogero Santoro and Ricardo De Pol-Holz—Pre-Columbian Introduction of Legume Trees *Prosopis Algarobia* Section and *Geoffroea decorticans* into the Atacama Desert of Northern Chile during the Late Holocene

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- 3:45 Nicole Herzog, Lisbeth Louderback and Bruce Pavlik—Comparing Starch Granules from Wild and Cultivated *Solanum jamesii* to Determine the Effects of Domestication
- 4:00 Rachel Dwyer—Passing the Paleo Drug Test: Testing for Medicinal Plant Use in the Paleoethnobotanical Record
- 4:15 Ann Eberwein—An Examination of Circum-Alpine Lake Dwelling Botanicals at the Milwaukee Public Museum

**[87] SYMPOSIUM ■ THE ARCHAEOLOGY OF CHILDCARE***(Sponsored by Society for the Study of Childhood in the Past)***Room:** Washington Room 1**Time:** 1:00 PM–4:45 PM**Chairs:** Dawn Hadley, Sian Halcrow and Steven Dorland**Participants:**

- 1:00 Roderick B. Salisbury, Katharina Rebay-Salisbury, Doris Pany-Kucera and Julie Dunne—Feeding Vessels in Later European Prehistory
- 1:15 Charlotte King, Sian Halcrow, Andrew Millard, Vivien Standen and Bernardo Arriaza—Interpreting Increments – What Can Isotopic Evidence Tell Us about Care in the Past?
- 1:30 Anne Marie Snoddy, Charlotte King, Vivien Standen, Bernardo Arriaza and Sian Halcrow—Nutritional Stress and the Maternal-Infant Nexus: Insights from Isotopes and Paleopathology in the Ancient Chilean Atacama (ca 9000–1500 BP)
- 1:45 Sandra Wheeler, Lana Williams and Tosha Dupras—Entering the “Valley of Death”: Isotopic Evidence of Vulnerable Survivors at Roman Period Kellis, Egypt
- 2:00 Kathryn Kamp—Parents, Infants and Material Culture
- 2:15 Steven Dorland and Daniel Kwan —Learning through the Children: An Experimental Analysis to Investigate the Relation between Childhood Pottery Making Techniques and Social Learning Strategies
- 2:30 Geoffrey Cunnar and Edward Stoner—Thirty Years On, Considering Kelly’s 1988 “Three Sides of A Biface”, and Why It Matters for Great Basin Archaeology
- 2:45 Katherine Fennelly—Educating Children of the Labouring Poor: Neepsend School and the Industrial City of Sheffield at the End of the Nineteenth Century
- 3:00 Carenza Lewis—Child’s Play? Exploring Archaeological Evidence for Care-Giving in the 19th and 20th Centuries
- 3:15 Katie Hemer—Non-adult Dis/ability and Care in Early Medieval Britain
- 3:30 Charlotte Waller-Cotterhill—Child Disability and Prostheses in Nineteenth-Century Britain
- 3:45 Marion Shiner and Katie Hemer—Concern for the Living, Care for the Dead: Non-adult Burial at the Early Christian Cemetery of St Patrick’s Chapel, Pembrokeshire
- 4:00 Deborah Blom, Kelly J. Knudson, Nicole C. Couture and Carrie Anne Berryman—Caring for Children in the Ancient Andes: Bioarchaeological and Biogeochemical Data from the Andean Middle Horizon (AD 500–1100) Tiwanaku Polity
- 4:15 April Nowell—Life and Death of the Pleistocene Child: Children’s Burials in Gravettian Europe
- 4:30 Sian Halcrow—Discussant

Thursday Afternoon, April 12**[88] GENERAL SESSION ■ BIOARCHAEOLOGY AND FORENSIC ANTHROPOLOGY****Room:** Lincoln 5**Time:** 1:00 PM–4:45 PM**Chair:** Marija Edinborough**Participants:**

- 1:00 Damien Huffer and Shawn Graham—Bioarchaeological Approaches to Investigating Supply, Demand and Authenticity in the Colonial-era Human Remains Trade
- 1:15 Kevin Gidusko, John Schultz and Mason Branscome—Close-Range Photogrammetry Applications in Outdoor Forensic Scene Documentation
- 1:30 C. Scott Speal—Socio-economic Class Status and Health on the Roman Danube: Skeletal Indicators and Mortuary Treatment at Late Antique Viminacium
- 1:45 Jordan Krummel and James Watson—Archaeoethanatomical Analysis of Mortuary Practices in the Prehistoric Sonoran Desert and Implications for Interpreting Sickness through Postmortem Processing
- 2:00 Andrea Vianello and Robert H. Tykot—Mobility in North-eastern Italy between the Late Roman and Byzantine Periods
- 2:15 Yann Ardagna, Emeline Sperandio and Bruno Bizot—The “Provence-Alpes Côte d’Azur” Regional “Human Bone Library”: A Tool for Anthropological Research and for the Preservation of Human Remains
- 2:30 Alexandra Bybee—Historical and Bioarchaeological Investigation of the Evansville State Hospital Cemetery (12VG598), Vanderburgh County, Indiana
- 2:45 Katherine Jackson and Genevieve Mielke—A Comparison of Mock Excavations and Active Case Excavations
- 3:00 Christine France and Haiping Qi—Hydrogen Isotopes in Archaeological Bone Collagen: Potential Combined Influence of Meteoric Water and Protein Intake
- 3:15 Genevieve Mielke—The Battle of the Little Bighorn Gunshot Trauma Analysis: Suicide Prevalence among the Soldiers of the 7th Cavalry
- 3:30 Noemi Procopio, Anna Williams, Andrew Chamberlain and Michael Buckley—Post-mortem Interval and Age-at-Death Estimation through Forensic Proteomics
- 3:45 Marija Edinborough and Kevan Edinborough—Cranial and Dental Pathologies in Mesolithic-Neolithic Inhabitants of the Danube Gorges, Serbia
- 4:00 Lara Noldner and Jennifer Mack—Oneota Burial Practices: A Case Study from the Dixon Site (13WD8)
- 4:15 Jessica Munkittrick and Vaughan Grimes—Exploring Childhood Health through Lead Trace Element and Isotope Analyses: A Case Study of Historic Populations in Newfoundland, Canada
- 4:30 Jennifer Kennedy and D. Andrew Merriwether—Inferences about Class Structure from Burial Form and Mitochondrial DNA Relationships at Tall Šēḥ Ḥamad, Syria

**[89] GENERAL SESSION ■ EXPERIMENTAL ARCHAEOLOGY****Room:** Thurgood Marshall Ballroom South**Time:** 1:00 PM–4:45 PM**Chair:** Yvette Marks**Participants:**

- 1:00 Michelle Bebber and Michael Wilson—Why Wasn’t the Ceramic Arrowhead Invented?
- 1:15 Rosalind Wallduck and Silvia M. Bello—Cut Marks and Decaying Bodies: An Experimental Study
- 1:30 John Murray, Jacob Harris, Simen Oestmo and Curtis Marean—Using Surface Roughness to Identify Heat Treatment in Lithic Technology
- 1:45 Luke Stroth, Rebekah Truhan and Jacob Foubert—A Change of Hearth: Stages of Production in Hot-Rock Technology at a Late Woodland Rockshelter

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- 2:00 Yvette Marks and Roger Doonan—Copper Smelting in the Early Bronze Age Aegean
- 2:15 Hilda Lozano Bravo, Jose Luis Ruvalcaba, Ana Maria Soler and Luis Barba—Floors, an Archaeological Material: The Case of the Plaza de la Piramide del Sol, Teotihuacan, Mexico
- 2:30 Kaoru Akoshima—Lithic Micro-wear Traces at Morphological Junctions: Function vs. Typology Reconsidered in Terms of Technological Organizations
- 2:45 Brandi Lee MacDonald, David Stalla, Xiaoqing He and Tommi White—Microanalytical Insights into Pigment Selection and Preparation in British Columbia Rock Art
- 3:00 Katherine Sterner, Robert Ahlrichs, Dan Wendt and Larry Furo—Testing Adaptive Efficiency: A Comparison of the Durability of Stone and Copper Projectile Points
- 3:15 Nicole Bodenstein—Comparing a NextEngine 3D Scanner with Casting Mediums for Making Positives of Cord-Imprinted Pottery
- 3:30 Russell Skowronek, Brandi Reger, James Hinthorne and Juan Gonzalez—pXRF Identification of Prehistoric Lithic Artifact Material, Resource Clusters along the Lower Rio Grande
- 3:45 Theresa Emmerich Kamper—Hide Processing in Prehistory: An Experimental Approach to Prehistoric Tanning Technologies
- 4:00 Naomi L. Martisius, Isabelle Sidéra, Teresa E. Steele, Shannon P. McPherron and Ellen Schulz-Kornas—A New Methodology for Understanding How Bone Wears Using 3D Surface Texture Analysis
- 4:15 Donna Ruhl—Isotopes & Curation: New Lessons Learned from Legacy Waterlogged Wooden Artifacts
- 4:30 Scott Stull—Experimental Archaeology of Medieval Food as Participant Observation

**[90] SYMPOSIUM ■ DISCS, FISH, SQUIRRELS AND SCAT: PAPERS IN HONOR OF WALTER KLIPPEL****Room:** Lincoln 6**Time:** 1:00 PM–5:00 PM**Chairs:** Meagan Dennison, Jennifer Green and Samantha Upton**Participants:**

- 1:00 Andrew Bradbury and Philip Carr—Flintknapping Experiments and Middle-Range Theory
- 1:15 Terry Ferguson, Andrew Ivester and Christopher Moore—A Geoarchaeological Investigation of Site Formation Processes and Late Pleistocene and Holocene Environmental Change at the Foxwood Farm Site (38PN35)
- 1:30 Jodi Jacobson—Broken Bones: Taphonomy vs Cultural Modification in North and Central Texas
- 1:45 Joanne Devlin, Lee Jantz and Michelle Hamilton—Beyond the Farm: Forensic Taphonomy in East Tennessee
- 2:00 Jennifer Synsteliën and Heli Majjanen—Bone Modification by the American Cockroach
- 2:15 Jack Hofman and Barbara Crable—Cultural, Taphonomic, and Biogeographic Considerations of Black Footed Ferret at the Burntwood Creek Bison Kill Site, Central High Plains, USA
- 2:30 Kenneth Cannon—Ecology of Bison in the Greater Yellowstone Ecosystem
- 2:45 Bruce Manzano, Thomas Royster, Bernard Means, George Crothers and Robert Selden Jr.—Faunal Identification Using 3D Scanning
- 3:00 Jan Simek and Alan Cressler—Sacred Animal Images in Precontact Southeastern Rock Art



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- 3:15 Haskel Greenfield, Justin Lev-Tov, Ann Killebrew and Annie Brown—Sacrificing and Eating Dogs in the Ancient Eastern Mediterranean World
- 3:30 Timothy Baumann, Charles Faulkner and Heather Woods—The Diet and Identity of Enslaved African Americans in the Upper South
- 3:45 Sean Coughlin and Kelly Sellers Wittie—Feeding New Orleans: Where's The Pork?
- 4:00 Judith Sichler—Provisioned and Caught: Historic Perspectives on Diet in the Danish West Indies
- 4:15 Gerald Schroedl, Callie Bennett, Ann Ramsey and Todd Ahlman—Historical and Archaeological Contexts for Zooarchaeological Analyses at Brimstone Hill Fortress, St. Kitts, West Indies
- 4:30 Bonnie Styles—Discussant
- 4:45 R. McMillan—Discussant

**[91] POSTER SESSION ■ STRONG CURRENTS IN GILA BASIN RESEARCH****Room:** Exhibit Hall B South**Time:** 2:00 PM–4:00 PM**Chairs:** Karen Schollmeyer and Jeffery Clark**Participants:**

- 91-a Patricia Gilman and Jakob Sedig—Similarities and Differences Between Upper Gila and Mimbres Valley Ceramics in Southwestern New Mexico
- 91-b Sophia Draznin-Nagy and Jeffery Clark—Pigment and Clay Variation in Polychrome Ceramics
- 91-c Robert Gardner and Robert Hard—Creating 3D Models of Artifacts and Features using Photogrammetry
- 91-d Jonathan Schaefer and Leslie Aragon—Regional Influences on Cliff Phase Ground Stone in the Upper Gila Area
- 91-e Susannah Johnson and Karen Schollmeyer—Gaming Pieces in the US Southwest
- 91-f Mary Whisenhunt, Kristin Corl, John Whisenhunt, Robert Hard and John Roney—Archaeological Survey in Southeastern Arizona: Partnering with Landowners and Local Informants
- 91-g Taylor Picard and Evan Giomi—Analysis of Settlement Patterns near the Big Burro Mountains
- 91-h Lori Barkwill Love—The Social History of Mogollon Village: A Bayesian Approach
- 91-i Andrea Crawley, Fumiyasu Arakawa, Jared Cicchetti and Garrett Leitermann—Classic Mimbres Phase Archaeology: A Contrastive Study of Two Sites at the Headwaters of the Upper Gila River
- 91-j Christopher Turnbow and Robert Forrester—The XSX Ranch Site: Excavations of a Late Classic Mimbres to Early Post Classic Pueblo in the Upper Gila Forks, New Mexico
- 91-k Stephen Uzzle and Karen Schollmeyer—Insights into the Salado Phenomenon from the Gila River Farm Site
- 91-l Karen Schollmeyer—Strange Birds: Avian Remains in the Upper Gila and Mimbres Drainages
- 91-m Leslie Aragon—Identity and Ideology in the Hohokam Ballcourt World
- 91-n Aaron Wright, John Jones, Todd Bostwick and Arleyn Simon—Hohokam Dry Farming along the South Mountains Bajada, South-Central Arizona
- 91-o Ashley Huntley, Jon-Paul McCool, Nicholas Dunning, Samantha Fladd and Vernon Scarborough—Reassessing Agricultural Potential in Chaco Canyon: Exploring the Link between Soil Salinity and Soil Texture

Thursday Afternoon, April 12**[92] POSTER SESSION ■ THE GREAT BASIN BEFORE 9000 BP****Room:** Exhibit Hall B South**Time:** 2:00 PM–4:00 PM**Chairs:** Brian Coddling and David Zeanah**Participants:**

- 92-a Geoffrey Smith and Derek Reaux—Western Stemmed Tradition Projectile Technology and Raw Material Use in Guano Valley, Oregon
- 92-b Derek Reaux and Geoffrey Smith—The Paleoindian Archaeology of Guano Valley, Oregon
- 92-c Paul Allgaier and Brian Coddling—Prearchaic Settlement Decisions in the Great Basin
- 92-d Katelyn Mohr—Late Pleistocene and Early Holocene Lake-Level Fluctuations in the Lahontan Basin, Nevada: An Expanded Approach
- 92-e Sophia Jamaldin—Paleoindian Cave and Rockshelter Use in the Fort Rock Basin, Oregon
- 92-f Daron Duke and D. Craig Young—The Dated Paleoindian Archaeology of the Old River Bed Delta
- 92-g Erik Martin, Daron Duke and Andrew J. Hoskins—Trends in Paleoindian Projectile Point Technology during the Pleistocene-Holocene Transition at the Old River Bed Delta, UT
- 92-h Nicole George—A Geochemical Analysis of Concave Base and Western Stemmed Tradition Projectile Points in Southeastern Oregon
- 92-i David Zeanah, Douglas Bird, Rebecca Bliege Bird, Brian Coddling and Robert Elston—Understanding Prearchaic Mobility and Settlement Patterns: The Role of Theory, Models, and Ethnographic Analogies
- 92-j Khori Newlander—Using Lithic Conveyance to Reconstruct Paleoindian Cultural Landscapes in the Great Basin
- 92-k Jesse Adams and Danny Mullins—Paleoarchaic Occupations in the Eastern Great Basin: The Beast and Paleolandscapes in West Central Utah
- 92-l Robert Elston, Gloria Brown, Ryan Bradshaw, Martijn Kuypers and David Zeanah—Evaluating a Stratified, Prearchaic, Open-Air Site in Grass Valley, Nevada
- 92-m Ryan Bradshaw, Martijn Kuypers, David Zeanah and Robert Elston—Technological Organization of Two Prearchaic Sites in Grass Valley, Nevada
- 92-n Kenneth Vernon, Kate Magargal, D. Craig Young, David Zeanah and Brian Coddling—Prearchaic Land Use in Grass Valley, NV: A Novel Statistical Implementation of Optimal Distribution Models

**[93] POSTER SESSION ■ DESARROLLO POBLACIONAL, PRODUCCIÓN, APROVECHAMIENTO Y COSMOVISIÓN EN LAS ZONAS VOLCÁNICAS DE LA COSTA DEL GOLFO****Room:** Exhibit Hall B South**Time:** 2:00 PM–4:00 PM**Chairs:** Gibránn Becerra and Lourdes Budar**Participants:**

- 93-a Gibránn Becerra and Lourdes Budar—Habitar en los bordes, ocupación Clásica en lomeríos y crestas montañosas al oriente de los volcanes de Los Tuxtlas
- 93-b Juan De La Peña Paredes and Yamile Lira-Lopez —La sociedad prehispánica del valle intermontano de Maltrata, Veracruz: Desarrollo poblacional, aprovechamiento y cosmovisión
- 93-c Xochitl Leon Estrada—Paisajes, recursos y su aprovechamiento en Los Tuxtlas, Veracruz, Mexico
- 93-d Mariela Viridiana Madrid González—El diseño de la actividad. La relación de los petrograbados y los talleres de lítica en la Costa este de Los Tuxtlas

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- 93-e Mauricio Cuevas and Lourdes Budar—Agua dulce, Agua salada. Diferenciación de actividades pesqueras en el sistema portuario de la costa este de Los Tuxtlas
- 93-f Marimar Becerra Alvarez—Paisajes aprovechados y causes modificados en el sistema portuario de la costa este de Los Tuxtlas, Veracruz

**[94] POSTER SESSION ■ ARCHAEOLOGY AND ACTIVE LEARNING: THERE'S NO NEED TO REINVENT THE WHEEL**

*(Sponsored by SAA Committee on Curriculum)*

**Room:** Exhibit Hall B South

**Time:** 2:00 PM–4:00 PM

**Chairs:** Philip Carr and Leah McCurdy

**Participants:**

- 94-a Philip Carr, Julie Estis and Cecelia Martin—Team-Based Learning in AN 101: Introduction to Archaeology & Biological Anthropology
- 94-b Erin Halstad McGuire—Cultivating Curiosity: Experimental Archaeology in Undergraduate Courses
- 94-c Joanne Minerbi and Elisabeth Raeshide—Making Stone Tools to Connect with Past People: A Case Study in Active Learning about Lithics with the Fernandeano Tataviam Band of Mission Indians
- 94-d Amy Gatenbee and Thomas Pluckhahn—Making Theory Fun: Combining Archaeological Theory with Active Learning Exercises in Teaching North American Prehistory
- 94-e Emily Sharp—Confronting Popular Perceptions of a Violent Past: Active Learning Strategies for a Large Introduction to Archaeology Course
- 94-f F. Scott Worman—Risk and Failure in the Classroom: Exploration, Scholarship, and Active Learning
- 94-g Rebecca Wiewel—Making Active Learning Practical
- 94-h Kandace Hollenbach—The Volunteer Spirit: "Archaeology Volunteer Day" at the Archaeological Research Laboratory at UT-Knoxville
- 94-i A. Gwynn Henderson, Linda S. Levstik, M. Jay Stottman and Janie-Rice Brother—Investigating a Shotgun House: "Who Knew Shelter Was So Emotionally Charged?"
- 94-j Jayur Mehta—Cultivating Archaeology through Project-Based Learning

**[95] POSTER SESSION ■ CERAMIC PETROGRAPHERS IN THE AMERICAS: PROMOTING THE ADVANCEMENT AND APPLICATION OF PETROGRAPHY IN ARCHAEOLOGY**

**Room:** Exhibit Hall B South

**Time:** 2:00 PM–4:00 PM

**Chair:** Andrea Torvinen

**Participants:**

- 95-a Yukiko Tonoike and Andrea Torvinen —Ceramic Petrographers in the Americas: An Introduction to Our Mission and Goals
- 95-b Andrea Torvinen—Defining Petrographic Fabrics among Regional Wares at La Quemada, Zacatecas, Mexico
- 95-c Suzanne Eckert and Deborah Huntley—At a Crossroads: 300 years of Pottery Production and Exchange at Goat Spring Pueblo, NM
- 95-d Kari Schleher, Emma Britton, Donna Glowacki, Jeffrey R. Ferguson and Robin Lyle—Pottery Production at the Dillard Site: An Early Basketmaker III Community Center in the Central Mesa Verde Region
- 95-e David Hill—Exploring the Interaction of Culture and Technology in the Acoma Culture Province

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- 95-f John Lawrence, Cathy Costin, Kathleen Marsaglia, Michael Love and Hector Neff—Petrography, Production, and Provenance of Ceramics from La Blanca, Guatemala
- 95-g Anabel Ford, Linda Howie and Josh Inga—Recipe for Daub? A Comparative Petrographic Study of a Common Construction Component in the Maya Area
- 95-h Linda Howie, Jillian Jordan and Heather McKillop—Mineralogy without Minerals: A Proposed Methodology for Reconstructing the Original Compositions of Highly Altered Ceramic Bodies Using Thin Section Petrography
- 95-i Francisco Sanchez-Tornero—The Use of White Engobe in the Formative Ceramics in Ojo de Agua Spring from San Antonio La Isla, Toluca Valley, Mexico
- 95-j Veronica Acevedo—Tecnología cerámica, análisis petrográfico y técnicas arqueométricas en cerámicas policromas de las fronteras de Quebrada de Humahuaca, Jujuy, Argentina
- 95-k C. Trevor Duke, Neill Wallis and Ann Cordell—Mortuary Spaces as Social Power: Ceramic Exchange and Burial Practice at Safford Mound (8PI3)
- 95-l Ann Cordell, Neill Wallis and Thomas Pluckhahn—Ceramic Petrography of Woodland Period Swift Creek Complicated Stamped Pottery in Florida and the Lower Southeastern United States
- 95-m Zackary Gilmore and Kenneth Sassaman—Clay Resource Variability and Stallings Pottery Provenance along the Savannah and Ogeechee Rivers
- 95-n Daniel Ionico—The Recipes of Disaster in Northern Iroquoia: Integrating Digital Image Analysis into Petrographic Practice
- 95-o Sarah Striker—Applications of Microscopy and Thin Section Petrography in Iroquoian Ceramic Analysis
- 95-p Vince Van Thienen—Rethinking Migration and Mobility in the Late Roman West with Ceramic Petrography

**[96] FORUM ■ BEARS EARS, THE ANTIQUITIES ACT, AND THE STATUS OF OUR NATIONAL MONUMENTS***(SAA President-Sponsored Session)***Room:** Marriott Salon 2**Time:** 3:00 PM–5:00 PM**Moderator:** William Doelle**Participants:**

Francis McManamon—Discussant  
Bruce Babbitt—Discussant  
Carleton Bowekaty—Discussant  
Willie Grayeyes—Discussant  
Josh Ewing—Discussant  
Barbara Pahl—Discussant  
Lyle Balenquah—Discussant  
William Lipe—Discussant  
R. E. Burrillo—Discussant  
Benjamin Bellorado—Discussant

Thursday Afternoon, April 12**[97] SYMPOSIUM ■ ADVANCES IN BIOMOLECULAR ARCHAEOLOGY****Room:** Park Tower Suite 8222**Time:** 3:45 PM–5:00 PM**Chair:** Meradeth Snow**Participants:**

- 3:45 Kyle Waller, José Luis Punzo Díaz, Ana Morales-Arce, Meradeth Snow and Miguel Vallebuena—Ancient DNA Investigations of Possible Casas Grandes – Chalchihuites Interactions
- 4:00 Rachel Summers, Meradeth Snow, Joshua Sackett and Duane Moser—Microbial Communities from Soil and Coprolites
- 4:15 Meradeth Snow and Ana Morales-Arce—Genetic Identity and Relationships in the Southwest United States and Mexico
- 4:30 Jakob Sedig—An Archaeologist Amongst Geneticists: Overview of My Experiences as an Archaeologist in an Ancient DNA Laboratory
- 4:45 Clare Super, Meradeth Snow, Anna Prentiss, Ethan Ryan and Nathan Goodale—Ancient DNA Analysis from Micro-fractures in Bridge River Stone Tools

## Thursday Evening ■ April 12, 2018

## POSTERS AFTER HOURS: POSTER SESSIONS 98–106

**[98] POSTER SESSION ■ EUROPEAN ARCHAEOLOGY: SCOTLAND AND IRELAND****Room:** Exhibit Hall B South**Time:** 5:00 PM–7:00 PM**Participants:**

- 98-a Arabella Goodrich and Olivia Navarro-Farr—Rooms in Rome: Production, Function, and Conservation of Ancient Roman Mosaics and Frescoes
- 98-b D'andra Lewis—Scottish Whisky: A Community's Development and Global Impact
- 98-c Erin McDonald—Peopling the Landscape: The Pollen Record and Nomadic Pastoralism in Iron Age Ireland
- 98-d Rebekah Mills—All in the Family: Using Archeology and Genealogy to Construct a Historical Narrative
- 98-e Samuel Connell, Kathryn Maurer, Chad Gifford and Niall Brady—Castles in Communities Ireland Field Program

**[99] POSTER SESSION ■ AFRICAN PALAEOLOGIC STUDIES****Room:** Exhibit Hall B South**Time:** 5:00 PM–7:00 PM**Participants:**

- 99-a Hannah Keller and Naomi E. Cleghorn—The Fauna of KEH-1 (South Africa) A Middle and Later Stone Age Site: A Pilot Study
- 99-b Lorraine Hu, Fiona Marshall, Henry Saitabau, Angela Kabiru and Stanley Ambrose—Pastoral Neolithic Mortuary Site Sedimentology at Noomparrua Nkosesia, Kenya
- 99-c Sarah Seeley, Jonathan Reeves, Matthew Douglas and David R. Braun—Lithic Taphonomy and Digital Hydrogeologic Models: A GIS Based Approach to Understanding the Formational History of Surface Assemblages
- 99-d Angelina Curley, Sylvia Wemanya, Emmanuel Ndiema, Jonathan Reeves and David R. Braun—Quantifying Basalt Artifact Weathering and Depositional Context: Insights from the Koobi Fora Formation, Kenya
- 99-e Emily Phillips, Jonathan Reeves, Matthew Douglass and David R. Braun—Taphonomic Comparisons of Stone Tool Transport: Surface vs. Excavated Collections
- 99-f Stephen Merritt, Monica Avilez and Jonathan Reeves—Bone Preservation, Specimen Identifiability, and Outcrop Shape – A Preliminary Investigation of Early Pleistocene Taphonomy at Koobi Fora, Kenya
- 99-g Sarah Simeonoff, Curtis W. Marean and Jamie Hodgkins—Zooarchaeological Analysis of a Late Pleistocene Interglacial-Glacial Transition at Pinnacle Point Site 5-6, South Africa

**[100] POSTER SESSION ■ NEW DIRECTIONS IN INCA ARCHAEOLOGY**

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chairs:** Sonia Alconini and R. Alan Covey

**Participants:**

- 100-a Amanda Aland and Kylie Quave—From Heartland to Province: Assessing Inca Political Economy through Material Culture Signatures
- 100-b Colleen Zori—Mining, Extractive Metallurgy and Imperialism in the Inka Empire
- 100-c R. Alan Covey—Rethinking Inca Social Power in the Imperial Heartland (Cuzco, Peru)
- 100-d Brian Bauer and Matthew Piscitelli—Mapping the Cuzco Ceque System
- 100-e Nicole Payntar, Julia Earle, Camille Weinberg and R. Alan Covey—Foreign Travel and the Development of Inca Archaeology in Cuzco, Peru
- 100-f Alexander Menaker—The Inka Empire in the Valley of Volcanoes, Southern Peruvian Andes
- 100-g Adam Birge—Movement, Inca Ceques and the Sajama Lines of Bolivia
- 100-h Francisco Garrido and Diego Salazar—The Diversity of Mining Infrastructure and Organization in the Southern Provinces of the Inca Empire
- 100-i Sofia Chacaltana Cortez—A Local Perspective of Inca Imperial Influence in Coastal Colesuyo of the Southern Andes
- 100-j Jordan Dalton and Paula Patricia Moreno Zapata—Exploring Local and Imperial Strategies in the Chincha Valley
- 100-k Sarah Baitzel and Arturo Rivera—In the Land of Llamas and Aji: New Insights into the Late Horizon Inca Occupation of the Middle Sama Valley, Southern Peru
- 100-l Tamara Bray, Leah Minc and Sergio Chavez—Recent Research in Copacabana, Bolivia, the Intinkala Sector
- 100-m Melissa Murphy—Colonial Demography and Bioarchaeology
- 100-n Calogero Santoro and Mauricio Uribe—Inca Imperial Colonization and Ethnicity of Northern Chile
- 100-o Brandon Gay and Paul Goldstein—A Sense of Place: A GIS Study of Late Intermediate Period and Inca Settlement Patterns in Moquegua Peru
- 100-p Sonia Alconini—To the East of the Titicaca Basin: The Yunga-Kallawayas and the Inka Frontier

**[101] POSTER SESSION ■ A BEER IN THE HAND IS BETTER WITH AN OCULUS RIFT ON THE FACE: A MULTIMEDIA “POSTERS AFTER-HOURS” SESSION FEATURING HANDS-ON INTERACTIVE STATIONS AND IMMERSIVE VIRTUAL REALITY TECHNOLOGIES**

*(Sponsored by SAA Digital Data Interest Group [DDIG])*

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chairs:** Cameron S. Griffith and Joshua J. Wells

**Participants:**

- 101-a Gabriel Wrobel—The Maya Cranial Photogrammetry Project
- 101-b Guy Duke, Sarah Rowe and Brandi Reger—Figuring Things Out: 3D Models of Valdivia Figurines for Research and Outreach
- 101-c Andrés Mejía Ramón, Christian John, Jessica Munson and Christopher Morehart—Repurposing Scale in Three Mesoamerican Centers: Landscape Archaeology and High-Resolution 3D Modeling at Teotihuacan, Altar de Sacrificios, and Los Mogotes
- 101-d Kelsey Sullivan, Britton L. Shepardson, Mario Tuki, Paula Valenzuela Contreras and Francisco Torres Hochstetter—Education, Conservation, and Research on Easter Island through Three-Dimensional Photogrammetry

Thursday Evening, April 12

- 101-e Cameron S. Griffith—3D Scanning the Virgin Mary in the Toast: Using Handheld Digital Imaging Technologies to Explode the Myth of Pareidolic Illusions in the Ancient Maya Underworld
- 101-f Laura Scheiber and Kirsten Hawley—A Picture Is Worth a Thousand Words: Reading the Past and (Digital) Interpretation in the 21st Century, a Case Study from the Bighorn Basin, Wyoming
- 101-g Jiawei Huang, Claire Ebert, Jan Oliver Wallgrün, Jaime Awe and Alexander Klippel—Immersive Augmented and Virtual Reality for Archeological Sites Exploration and Analysis
- 101-h Alexander Nyers, Loren Davis and Danial Bean—How Good Are My Scans? A Quick Primer on 3D Scan Quality Control and Metadata Recordation
- 101-i Stephen Yerka and Russell Townsend—Big Picture, Little Picture: Reconstructing Rock Art and Context in Both the Virtual and Physical Word

**[102] POSTER SESSION ■ NEW APPROACHES IN SOUTHEASTERN ARCHAEOLOGY: RESEARCH FROM THE RENEWED FSU DEPARTMENT OF ANTHROPOLOGY**  
*(Sponsored by Florida State University Department of Anthropology)*

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chairs:** Jessi Halligan and Tanya Peres

**Participants:**

- 102-a Ashley Brady and Tanya Peres—Stones in the Shell: A Lithic Analysis of a Woodland Shell Ring in Florida
- 102-b Analise Hollingshead and Morgan Smith—A Fabric and Spatial Analyses of the Artifacts Recovered from the Ryan-Harley Paleoindian Site (8JE1004) in North Florida
- 102-c Katherine Gamblin—An Analysis of the Industrialization of the Bourbon Industry in Kentucky: 1870s-Prohibition
- 102-d John Sabin and Austin Cross—Predictive Modeling of Paleoindian and Archaic Sites across Florida with GIS
- 102-e Haley Messer—The Function of Woodland Period Shell Rings as Seen at the Mound Field Site (8WA8)
- 102-f Megan Merrick and Tanya Peres—Zooarchaeology of Domestic Activities at a Weeden Island Shell Ring in the St. Marks National Wildlife Refuge
- 102-g Austin Cross and John Sabin—Predictive Modeling of Early Archaic Bolen Site Distribution in Northwestern Florida, USA
- 102-h Samantha Terry—A Reexamination of the Faunal Assemblage at Bird Hammock (8Wa30)
- 102-i Kelly Ledford—Let Them Eat Corn: Using Stable Isotopes to Explore Turkey Management in the Mississippian Period Southeast
- 102-j Danielle Dozier—Fire on the Waterfront: The Archaeology of an 1800s Storefront in Apalachicola, Florida

**[103] POSTER SESSION ■ QUANTITATIVE MODELING OF ARCHAEOLOGICAL DATA**  
*(Sponsored by SAA Quantitative Methods and Statistical Computing in Archaeology Interest Group [QUANTARCH])*

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chairs:** Erik R. Otárola-Castillo, Max Price and Jesse Wolfhagen

**Participants:**

- 103-a Andrew Boehm and Erik R. Otárola-Castillo—The Energetics of Butchery



- 103-b Rachel Burger, Ian Jorgeson and Michael Aiuvalasit—Raising a Rafter: A Cost-Benefit Analysis of Ancestral Pueblo Intensification of Turkey Husbandry in the Northern Rio Grande Region, New Mexico
- 103-c Paul Burnett—Bears Ears Archaeological Probability Models
- 103-d David Carlson, Michael Waters and Joshua Keene—Intrasite Spatial Analysis at the Debra L. Friedkin Site, TX
- 103-e Jacob Harris, Curtis Marean, Kiona Ogle and Jessica Thompson—Employing Bayesian Probability Theory to Diverse Applications Relevant to Archaeology
- 103-f Matthew Harris—A Site Is Not a Centroid: Modeling Archaeological Landforms and Uncertainty with Bayesian Distribution Regression
- 103-g Christopher Lanza, Amanuel Beyin and Erik R. Otárola-Castillo—Which Way Did They Go? Using Individual-Based Models to Identify Out of Africa Hominin Dispersal Routes
- 103-h Ben Marwick and Erik Gjesfjeld—Modelling the Innovation and Extinction of Archaeological Ideas
- 103-i Erik R. Otárola-Castillo—Ghosts of Climates Past: Evaluating the Effects of Climate Change on the Foraging Ecology of Paleoindian Hunter-Gatherers in the North American Great Plains
- 103-j Max Price—Tracking Morphological Changes in the Domestication of Sheep and Pigs: A Comparison
- 103-k John Rapes, Jesse Wolfhagen, Max Price and Erik R. Otárola-Castillo — ZooaRchGUI: A User-Friendly Graphical User Interface with the R-Programming Language for Archaeologists
- 103-l Michael Shott and Erik R. Otárola-Castillo—Parts of a Whole: Reduction Allometry and Modularity in Experimental Folsom Points
- 103-m Melissa Torquato—Why Do We Farm?: Risk Assessment of the Foraging Farming Transition in North America
- 103-n Jesse Wolfhagen—Zooarchaeological Survivorship Models Using Ordered Logistic Regression

**[104] POSTER SESSION ■ INVESTIGATIONS OF ETHNOGENESIS AT LA 20,000, A 17TH-CENTURY SPANISH RANCH IN NEW MEXICO**

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chair:** Heather Trigg

**Participants:**

- 104-a Heather Trigg and Christina Spellman—Space and Architecture at LA 20,000, a 17th Century Spanish Ranch
- 104-b Kyle Edwards—Evaluating the Environmental Impacts of Colonial Settlement: A Palynological Study of La Cienega, New Mexico
- 104-c Anya Gruber—A Palynological Approach to Colonial Agro-Pastoral Activities at LA 20,000, New Mexico
- 104-d Ana Opishinski—The Zooarchaeology of LA 20,000
- 104-e Ivana Ivanova—New Mexican Cuisine as Ethnogenesis
- 104-f Adam Brinkman—Ollas and Inequality: Reflections on Space, Ceramics, and Power Relationships at the Sanchez Site
- 104-g Danielle Huerta, Heather Trigg and Judith Habicht-Mauche —Analysis of Rio Grande Glaze Ware Glaze F Pottery from LA 20,000 Using Petrographic and Chemical Composition Techniques

- [105] POSTER SESSION ■ PEOPLE 3K: INVESTIGATING POTENTIAL TIPPING POINTS GENERATED BY THE CLIMATE-POPULATION-RESOURCE MANAGEMENT NEXUS OVER THE LAST 3,000 YEARS**  
(Sponsored by *Past Global Changes*)  
**Room:** Exhibit Hall B South  
**Time:** 5:00 PM–7:00 PM  
**Chair:** Jacob Freeman
- Participants:**
- 105-a Claudio Latorre, Jacob Freeman, Erick Robinson, Eugenia Gayo and Mauricio Lima—PeoPLE 3K: Understanding the Population Dynamics of the Americas in the Context of Regional and Global Environmental Change
  - 105-b David Byers, José M. Capriles, Adolfo Gil, Judson Finley and Jacob Freeman—PEOPLE 3K (PalEOclimate and the PeopLing of the Earth): Investigating Tipping Points Generated by the Climate-Human Demography-Institutional Nexus over the Last 3000 Years
  - 105-c Samantha Nabity, Jacopo Baggio and Jacob Freeman—Does Increasing Social Complexity Buffer Energy Consumption from the Effects of High Frequency Climate Variation? A Western European Case Study
  - 105-d Erick Robinson, Jacob Freeman, David Byers, Spencer R. Pelton and Robert L. Kelly—Climate Change, Economies of Scale, and Population Growth in Prehistoric Hunter-Gatherer Societies: A Case Study from Southwestern Wyoming
  - 105-e Jacob Freeman, Gideon Maughan, Erick Robinson, David Byers and Robert L. Kelly—The Effects of Economic Complexity and Temperature on the Long-Term Energy Consumption Dynamics of Human Societies
  - 105-f Amber Johnson, Rudolf Cesaretti, Christina Collins and Peter Turchin—Global and Regional Frameworks for Comparing Agricultural Intensification and Productivity across Cases
  - 105-g Adolfo Gil, Gustavo Neme, Ricardo Villalba and Jacob Freeman—Contrasting Human Demography Trends between Hunter-Gatherers and Farmers as Response to Climate Change: Central Western Argentina as Study Case
  - 105-h Darcy Bird and Jacob Freeman—Rates of Change in Radiocarbon Date Frequencies and Population Collapse
  - 105-i Eugenia Gayo, Calogero Santoro, Claudio Latorre, Virginia Mcrostitie and José M. Capriles—Assessing Impacts of Late Holocene Environmental Variability on the Demography of Prehispanic Societies in Northern Chile (18°-29°S)
  - 105-j Eva Peralta, Leandro Luna, Claudia Aranda and Adolfo Gil—Human Demography and Ecosystems: Comparative Approach of Human Age-at-Death Profiles from Northpatagonia (Southern Mendoza, Argentina)
  - 105-k Judson Finley, Erick Robinson, R. Justin Derose and Elizabeth Hora-Cook—Fremont Maize Cultivation and Latest Holocene Climate Variability in the Cub Creek Archaeological District, Dinosaur National Monument
  - 105-l José M. Capriles—A Review of Paleodemographic Changes in Prehispanic Bolivia Using a Countrywide Assessment of Radiocarbon Dates
  - 105-m Kristina Solis—Late Holocene Climate Change and the Emergence of Hunter-Gatherer Territoriality in the Late Archaic Texas Coastal Plains: An Analysis Using Bioavailable Strontium
  - 105-n Kristin Corl, Kristina Solis, Robert Hard and Michelle Carpenter—Demographic Change through Analysis of Age Profiles of Burial Data
  - 105-o Robert Hard, Jacob Freeman, Robert Gardner, Gabriella Zaragosa and Raymond Mauldin—Modeling Hunter-Gatherer Population Dynamics on the Texas Coastal Plain during the Holocene

**[106] POSTER SESSION ■ STRATEGIES FOR MANAGING CULTURAL RESOURCES IN WILDERNESS AREAS OF THE UNITED STATES FOREST SERVICE**

**Room:** Exhibit Hall B South

**Time:** 5:00 PM–7:00 PM

**Chair:** Timothy Canaday

**Participants:**

- 106-a Timothy Canaday, Bryan Hanks, Rosemary Capo, Patricia Smith and Benjamin Hedin—Multi-method Geophysics in the Frank Church–River of No Return Wilderness, Idaho
- 106-b Kyle Wright and Lawrence Todd—Bounding Uncertainty and Ignorance: Archaeology and Human Paleoecology in Washakie Wilderness, Shoshone National Forest, Wyoming
- 106-c Lawrence Todd and Kyle Wright—Structured Wilderness: Managing 19th and Early 20th Century Heritage Resources, Shoshone National Forest, Wyoming
- 106-d Gregory Heide and Stuart Chilvers—A View to Wilderness – The Salmo Lookout Tower and the Salmo-Priest Wilderness Area
- 106-e Frederic Dillingham, Bryan Hockett, Evan Pellegrini and Jeffrey Weise—Communal Trapping and Pinyon Exploitation in the Wovoka Wilderness
- 106-f Don Hann—Obsidian Procurement Patterns in the Strawberry Mountain Wilderness
- 106-g Wendy Sutton—The Gila Wilderness: Defining, Redefining, and Managing Our First Wilderness Area
- 106-h Dustin Wagner and Trevor Lea—Preliminary Results from Excavations of a Communal Pit Structure in the Gila National Forest
- 106-i Marielle Pedro Black and Connie Reid—Saddle Mountain Wilderness, North Kaibab Ranger District, Kaibab National Forest
- 106-j Jorie Clark and Cathy Bickenheuser—Call of the Wild: Historic Preservation in Region 1's Wilderness
- 106-k Robert Morgan—Identifying Cultural Landscapes in Wilderness Areas on the Francis Marion National Forest
- 106-l Ryan Brown—Following the Voyageurs Highway: Cultural Resource Management in the Boundary Waters Canoe Area Wilderness
- 106-m Erik Whiteman and Morgan Zedalis—Can You Hear Me Now? – The History of a Telephone Booth in the Frank Church-River of No Return Wilderness
- 106-n Christopher Stanton, Jennifer Byrd and Vanessa Carrillo—Challenges of Archaeology in the Wilderness at South Diamond Creek Pueblo

**[107] SYMPOSIUM ■ “ETHICAL” ENGAGEMENT WITH HISTORIC CEMETERIES: FROM “ISSUES” TO A MULTIPLE CONSCIOUSNESS**

**Room:** Taft

**Time:** 6:00 PM–7:30 PM

**Chairs:** Catherine Jones and Shannon Freire

**Participants:**

- 6:00 Catherine Jones and Shannon Freire—The Problem of Enacting Ethical Practice in Historic Cemetery Excavation
- 6:15 Christine Halling and Ryan Seidemann—Following the Storm: Ethical Considerations for Historic Cemetery Disruptions after Natural Disasters
- 6:30 Anna Dhody and Kimberlee Moran—No Good Deed: The Recovery of Philadelphia's First Baptist Church Cemetery
- 6:45 Patricia Richards—Law and Ethics: The Milwaukee County Poor Farm Cemetery Excavations in the Context of the Wisconsin Burial Site Preservation Statute
- 7:00 Craig T. Goralski—The Ethics and Practice of Forensic Archaeology, Unfunded Mandates, and the Unidentified

Thursday Evening, April 12

7:15 Rachel Watkins—Ethics, Epistemology and Multiple Consciousness: Some Considerations

**[108] SYMPOSIUM ■ REAL, RECENT, OR REPLICA? AMERINDIAN (AND NEO-AMERINDIAN) ICONOGRAPHY IN THE CARIBBEAN**

**Room:** Johnson

**Time:** 6:00 PM–7:45 PM

**Chairs:** Joanna Ostapkowicz and Jonathan Hanna

**Participants:**

6:00 Joanna Ostapkowicz—Mundus vult decipi: Caribbean Indigenous Art Past, Present, Future  
 6:15 Arlene Alvarez and Corinne L. Hofman—Archaeological Heritage Market and Museums in the Dominican Republic  
 6:30 Jonathan Hanna—Discussant  
 6:45 John Swogger—Genuine Reproductions: Ethics, Practicalities and Problems in Creating a Replica of a Zemi from Carriacou  
 7:00 Alexander Geurds—The Original Is (Still) the Winner: Replicas and Fakes as Bound by Authenticity  
 7:15 Paola Schiappacasse—Discussant  
 7:30 Donna Yates—Discussant

**[109] ELECTRONIC SYMPOSIUM ■ DEBT IN PRE-MODERN STATE ECONOMIES FROM AN ARCHAEOLOGICAL PERSPECTIVE**

**Room:** Park Tower Suite 8222

**Time:** 6:00 PM–8:00 PM

**Chairs:** Marilyn Masson and Scott Hutson

**Participants:**

Jennifer Burrell—Ethnographic Perspectives on Debt & Political Economy: Contributions to a Conversation on Graeber  
 Marilyn Masson—The Significance of Debt to Household and Political Economies of Postclassic and Contact Period Maya Societies  
 Scott Hutson—Creations of the Lord: New World Slavery and Sacrifice  
 Charles Golden—Flows of Value, Debt, and Goods in the Usumacinta River Basin  
 Robert Rosenswig—Is the Study of Ancient Money Really So Difficult?  
 Alexandre Tokovinine—Giving Back: Debt in Classic Maya Narratives  
 John Chuchiak IV—Human Plunder: The Role of Maya Slavery in Postclassic and Early Conquest Era Yucatán, 1450-1550

**[110] ELECTRONIC SYMPOSIUM ■ PRACTICING ARCHAEOLOGY IN THE CONTEMPORARY POLITICAL CLIMATE**

*(Sponsored by Archaeology Division, American Anthropological Association)*

**Room:** Jefferson

**Time:** 6:00 PM–8:00 PM

**Chairs:** Franco Rossi, Claire Novotny and Randall McGuire

**Participants:**

Franco Rossi—Monuments that Weren't: Reckoning with Unmarked Histories of Violence  
 Claire Novotny—Between Government and Grassroots: Archaeologists and Social Justice in International Contexts  
 Sonya Atalay—Indigenous Knowledge in Dangerous Times: Research Partnerships, Knowledge Mobilization, and Public Engagement

Chelsea Blackmore—Racial Justice Matters: White Privilege and the Spectre of Scientific Objectivity  
 Anne Pyburn—The Postclassic, the Postmodern, and the Problem of Alternative Facts  
 Anna Novotny—Is It Christmas Yet? Teaching Evolution to a Resistant Public  
 Chuck Riggs—Indigenizing Archaeology in the 21st Century  
 Allison Cuneo—Broken Minarets and Lamassu: The Propogandization of Heritage on the Front Line of the War in Northern Iraq

**[111] ELECTRONIC SYMPOSIUM ■ ENVIRONMENTAL CHANGES AND THEIR IMPACT ON DIETARY ADAPTATION IN SUBTROPICAL CLIMATES**

**Room:** Jackson  
**Time:** 6:00 PM–8:00 PM  
**Chair:** Maureen Mahoney

**Participants:**

Brandy Norton—What's for Dinner: An Examination of Animal Resources Utilized in the Okeechobee Basin Area of Florida  
 Jennifer Green—Evaluating Dietary Change: Adaptive Strategies within the Northern Everglades and Surrounding Areas  
 William Locascio—Tree Island Life: Late Archaic Adaptations of a Northern Everglades Community  
 Paige Hawthorne—Paleoecological Continuity and Change Over Time in South Florida

**[112] FORUM ■ MENTORING UNDERGRADUATE RESEARCH IN ARCHAEOLOGY: THE GOOD, THE BAD, AND THE UGLY**

*(Sponsored by Council for Undergraduate Research [CUR])*  
**Room:** Truman  
**Time:** 6:00 PM–8:00 PM  
**Moderator:** Leslie Cecil

**Participants:**

Sarah Sherwood—Discussant  
 Brian Bates—Discussant  
 William Balco—Discussant  
 Claudia Garcia-Des Lauriers—Discussant  
 Patricia Hansell—Discussant  
 Robert H. Tykot—Discussant  
 James Newhard—Discussant

**[113] SYMPOSIUM ■ SEASCAPES, WATERSCAPES AND THE RELATIONAL**

**Room:** Maryland A  
**Time:** 6:00 PM–8:00 PM  
**Chairs:** Courtney Nimura, Liam Brady and Joakim Goldhahn

**Participants:**

6:00 Courtney Nimura, Liam Brady and Joakim Goldhahn—Considering Seascapes, Waterscapes and the Relational  
 6:15 Fraser Sturt and Duncan Garrow—Real and Imagined Islands: Wet Ontologies in the Neolithic of North Western Europe  
 6:30 Sean Connaughton—I Am from the Sea, You Are from the Land  
 6:45 Liam Brady, Sally May and Joakim Goldhahn—Referencing the Relational in 'Saltwater' Rock Art, Northern Australia  
 7:00 Johannes Loubser—The Transformational Properties of Water and Rock Art

Thursday Evening, April 12

- 7:15 Joakim Goldhahn—Towards an Archaeology of Prows - An Ontological Approach to Geoglyphs and Petroglyphs in the North European Bronze Age  
 7:30 Kristian Kristiansen—The Maritime Mode of Production: The Role of Seafaring in Bronze Age Societies  
 7:45 Questions and Answers

**[114] SYMPOSIUM ■ INDIGENOUS ARCHAEOLOGIES: GLOBAL PERSPECTIVES ON ENGAGING WITH HERITAGE AND INTERPRETING THE PAST**

**Room:** Taylor

**Time:** 6:00 PM–8:15 PM

**Chairs:** Chris Urwin and Joshua Bell

**Participants:**

- 6:00 Chris Urwin—Excavating and Interpreting Ancestral Action – Stories from the Subsurface of Orokolo Bay, Papua New Guinea  
 6:15 Eve Dewan, Ian Kretzler and Briece Edwards—A Community of Heritage Practitioners: Keeping the Past in the Present at Grand Ronde  
 6:30 Nicholas Laluk—Embracing the Ndee Past as the Present: Ndee Cultural Tenets as Sovereignty-Driven Practice and Community Well-Being  
 6:45 Douglas Bird and Rebecca Bliege Bird—The Emergence of Dreaming Landscapes: Indigenous Disturbance and Representation of Ecological Homelands in Australia's Western Desert  
 7:00 Sara L. Gonzalez—Finding a Grand Ronde Way: Building Epistemological Bridges through Collaborative Field Practice  
 7:15 Kristina Douglass, George Manahira, Roger Samba, Voahirana Vavisoa and Felicia Fenomanana—Integrated People, Practices and Knowledge in the Archaeology of Southwest Madagascar  
 7:30 Chelsey Geralda Armstrong and Christina Sam-Stanley —Fruits from the Ancestors: Tsimshian Forest Gardens in the Pacific Northwest  
 7:45 Joshua Bell—Transforming Ideologies and Hopes of the Past in the Purari Delta of Papua New Guinea  
 8:00 George Nicholas—Discussant

**[115] SYMPOSIUM ■ RESULTS OF THE NEH- AND NGS-FUNDED EXCAVATION AND ANALYSIS OF ROOM 28 IN PUEBLO BONITO**

**Room:** Washington Room 6

**Time:** 6:00 PM–8:30 PM

**Chair:** Patricia Crown

**Participants:**

- 6:00 Patricia Crown—Room 28 in Pueblo Bonito: Architecture and Ceramics  
 6:15 Hannah Mattson and Jacque Kocer—Ornaments from Room 28, Pueblo Bonito  
 6:30 Jacqueline Kocer—A Summary of Chipped and Ground Stone from Room 28, Pueblo Bonito in Chaco Canyon  
 6:45 Katherine Brewer—A Comparative Analysis of Historical Artifacts Recovered from Room 28  
 7:00 Stephanie Mack, Caitlin Ainsworth and Emily Lena Jones—Intrusive Taxa Identified in the Re-excavation of Room 28 in Pueblo Bonito, Chaco Canyon  
 7:15 Caitlin Ainsworth, Patricia Crown, Emily Lena Jones and Stephanie Franklin—Ritual Deposition of Avifauna in the Northern Burial Cluster at Pueblo Bonito, Chaco Canyon  
 7:30 Emily Lena Jones, Cyler Conrad, Caitlin Ainsworth and Stephanie Franklin—Turkey Husbandry at Pueblo Bonito and Its Relationship to Turkey-Human Interactions in Chaco Canyon

Thursday Evening, April 12

- 7:45 Marian Hamilton, Cyler Conrad, Patricia Crown, Wirt Wills and Emily Lena Jones—Carbon, Nitrogen, and Oxygen Stable Isotope Ratios from Room 28 Lagomorphs
- 8:00 Susan Smith and Karen Adams—Plant Tales from Pueblo Bonito, Room 28
- 8:15 Barbara Mills—Discussant

**[116] SYMPOSIUM ■ ANTHROPOGENIC RAINFOREST: LANDSCAPE MANAGEMENT IN THE AMAZON BEFORE THE EUROPEAN CONQUEST**

**Room:** Wilson A

**Time:** 6:00 PM–8:45 PM

**Chairs:** Camila Figueiredo and Stéphen Rostain

**Participants:**

- 6:00 Stéphen Rostain—Upano, an Anthropized Valley in the Upper Amazon
- 6:15 Clark Erickson, Shimon Wdowinski, Jonathan Thayn, Rex Rowley and Jedidiah Dale—Flood Regimes, Earthworks, and Water Management in the Domesticated Landscapes of The Bolivian Amazon
- 6:30 Lilian Rebellato, Denise Paul Schann, Wenceslau Gerales Teixeira, Antônia Damasceno Barbosa and William Woods—The Earthworks at Western of Amazon, Brazil: A Geoarchaeological Perspective
- 6:45 Jennifer Watling, Myrtle Shock, Martín Torres Castro and Eduardo Góes Neves—From the First to the Last Amazonian Dark Earths: The Longue-Durée of Landscape Management at the Teotônio Site, Upper Madeira River, SW Amazonia
- 7:00 Klaus Hilbert—A History of Knowledge of the Amazonian Dark Earths
- 7:15 S. Maezumi, Jose Iriarte, Diana Alves, Mark Robinson and Denise Schaan—Evidence of Pre-Columbian Polyculture and Agroforestry in the Eastern Amazon
- 7:30 Joanna Troufflard—Understanding the Tapajó Socio-political System through the Study of Landscapes and Material Culture
- 7:45 Camila Figueiredo—Tapajó Group Routes Networks, Santarém and Belterra Region, Lower Amazon, Brazil
- 8:00 Wetherbee Dorshow and Michael Heckenberger—Recent Investigations in the Upper Xingu Basin
- 8:15 Klaus Hilbert—Discussant
- 8:30 Francisco Pugliese—Discussant

**[117] SYMPOSIUM ■ VOICING THE COLONIZED: AN EXPLORATION OF DIFFERING EXPERIENCES AND RESPONSES TO CONQUEST FROM THE OLD AND NEW WORLD**

**Room:** Wilson B

**Time:** 6:00 PM–8:45 PM

**Chair:** Jenna Hurtubise

**Participants:**

- 6:00 Maxine Oland—Acting, Reacting, and Entangling at the Edge of the Spanish Colony: Maya Life at Progreso Lagoon, Belize in the Context of Colonization
- 6:15 Haagen Klaus—Alterity, Resistance, and Autonomy: Mortuary Archaeology and the Diversity of Indigenous Responses to Spanish Conquest in Lambayeque, Peru
- 6:30 Véronique Bélisle—Reassessing Wari Power in the Central Andes: Local Agency, Trade, and Competition in the Cusco Region
- 6:45 Jenna Hurtubise—Preliminary Understandings of the Casma's Response to Chimú Conquest in the Nepeña Valley, Peru: Findings from the 2017 Pan de Azúcar Excavations

Thursday Evening, April 12

- 7:00 Scotti Norman—Revitalizing Native Practices in the Face of Colonialism: Taki Onqoy and Entanglement in the 16th Century (Ayacucho, Peru)
- 7:15 Linda Gosner—Iberian Mines and Imperial Matters: Re-conceptualizing Labor, Technologies, and Communities of Practice in Roman Iberia
- 7:30 Alexander Smith—Indigenous Persistence in the Balearic Islands: Carthaginian and Roman Colonial Engagements in the Western Mediterranean
- 7:45 Louise Steel—Contesting Landscapes. Hidden Histories vs. Memorialised Spaces in Cyprus
- 8:00 Mikhail Echavarrri and Stephen Acabado—Localizing the Narrative of Spanish Colonization in the Philippines
- 8:15 Peter Van Dommelen—Discussant
- 8:30 Jeb Card—Discussant

**[118] GENERAL SESSION ■ ADVANCES IN DIGITAL ARCHAEOLOGY****Room:** Washington Room 5**Time:** 6:00 PM–8:45 PM**Chair:** Dirk Rieke-Zapp**Participants:**

- 6:00 Shawn Graham and Damien Huffer—Machine Learning the Visual Rhetoric of the Trade in Human Remains
- 6:15 Justin Walsh, Alice Gorman and Erik Linstead—A New Methodology for Archaeological Investigation of Human Activity in Space: The International Space Station Archaeological Project
- 6:30 William Brown—Formal Theory in Demographic Temporal Frequency Analysis: Decomposing the TFD Data Generating Process
- 6:45 Maurizio Forte—Digital and Poly-sensing Archaeology: From Remote Sensing to Smart Trowels
- 7:00 Petr Kvetina and Jiri Unger—The Fast and the Furious. Innovations in Archaeological Visualisations at the Beginning of the 21st Ct.
- 7:15 Dirk Rieke-Zapp and Elisabeth Trinkl—3D Comparison of Attic Head Vases
- 7:30 Luke Burnor and Claudia Garcia-Des Lauriers—Los Horcones, Offering 1: 3D Imaging, Analysis, and Reconstruction
- 7:45 Cindy Hsin-yee Huang, April Nowell and Leslie Van Gelder—Tracing Ice Age Artistic Communities: 3D Digital Modeling Finger Flutings
- 8:00 Mark Collard, Brea McCauley, Chris Carleton and Andre Costopoulos—Testing Dunnell's Waste Explanation for Monument Building with an Agent-Based Model
- 8:15 Jared Katz—The Numerous Faces and Voices of Ancient Maya Instruments: A Typological Analysis of Ancient Maya Musical Artifacts Based on Physical and Tonal Attributes
- 8:30 Jonathan Roldan, Marisol Cortes-Rincon and Abby Barrios—Digital Preservation Era: A Toolbox for Archaeologists to Transition into the Digital Age

**[119] SYMPOSIUM ■ 1300–1500 CE: MIGRATION, RELOCATION, AND ABANDONMENT IN EASTERN NORTH AMERICA****Room:** Wilson C**Time:** 6:00 PM–9:00 PM**Chairs:** Eric Jones and Charles Cobb**Participants:**

- 6:00 Jennifer Birch—Migration, Dispersion, or Purposeful Relocation?: Flexibility as an Adaptive Settlement Strategy in Northern Iroquoia, ca. A.D. 1300–1650
- 6:15 Robert Cook—When and Where Did They Go? More Fully Conceptualizing Fort Ancient's Descendants



Thursday Evening, April 12

- 6:30 Martin Gallivan—Violence, Dislocation, and Social Transformation in the Chesapeake, AD 1300–1500
- 6:45 Eric Jones—A Multiscalar Analysis of Piedmont Village Tradition Settlement and Demography, 1200-1600 CE
- 7:00 Benjamin Steere and Ashley Schubert—Movement and Interaction in the Appalachian Summit circa 1300–1500 CE
- 7:15 Questions and Answers
- 7:30 Anthony Krus and Charles Cobb —The Mississippian Fin de Siècle in the Middle Cumberland Region of Tennessee
- 7:45 Lynne Sullivan and Kevin Smith—Heading for the Hills: The Middle Cumberland Region to Upper Tennessee Valley Migration
- 8:00 Brad Lieb, Tony Boudreaux and Charles Cobb—Prelude to the Protohistoric: Late Mississippian Settlement Dynamics in the Central and Upper Tombigbee River Drainage
- 8:15 Sheila Savage, Scott Hammerstedt and Amanda Regnier—Life on the Margins: Eastern Oklahoma's Arkansas Drainage between 1300 and 1500 CE
- 8:30 Catherine Cameron—Discussant
- 8:45 Dean Snow—Discussant

**[120] SYMPOSIUM ■ FLUTED POINT TECHNOLOGY: VARIATION ACROSS A HEMISPHERE****Room:** McKinley**Time:** 6:00 PM–9:00 PM**Chairs:** Heather Smith and Jesse Tune**Participants:**

- 6:00 Heather Smith—Discussant
- 6:15 Michael O'Brien—Contemporary Views on Clovis Learning and Colonization
- 6:30 John W. Ives, Gabriel Yanicki, Courtney Lakevold and Kisha Supernant—Confluences: Fluted Points in the Ice-Free Corridor
- 6:45 Heather Smith—The Manufacture of Northern Fluted Points: A Production Sequence Hypothesis
- 7:00 Jonathan Lothrop and Christopher Ellis—Fluted Point Variation in Glaciated Northeastern North America
- 7:15 Ashley Smallwood, Thomas Jennings and Charlotte Pevny—Tracing Paleoindian Projectile Point Diversity in the American Southeast
- 7:30 David Thulman—Florida's Fluted Paleoindian Points: A Reassessment of the Typology
- 7:45 Jesse Tune—Assessing Biface Reduction and the Ideal Use-Life of Fluted Bifaces
- 8:00 Frederic Sellet and Michael Guarino—Miniature Folsom Points from the Lindenmeier Site, Colorado
- 8:15 Michael Rondeau—Far West Fluted Points: Variability and Trends
- 8:30 Nora Flegenheimer, Natalia Mazzia, Celeste Weitzel and Salomón Hocsman—Recycling on Fishtail Points: Morphological and Fatty Acids Analysis
- 8:45 Juliet Morrow—Discussant

Thursday Evening, April 12**[121] SYMPOSIUM ■ URBANISM, TECHNOLOGY, AND IDENTITY: CELEBRATING THE COMPARATIVE ARCHAEOLOGY OF RITA P. WRIGHT****Room:** Harding**Time:** 6:00 PM–9:00 PM**Chairs:** Sneh Patel, Pam Crabtree and Adam Green**Participants:**

- 6:00 Adam Green, Sneh Patel and Pam Crabtree—Introducing Urbanism, Technology, and Identity: Celebrating the Comparative Archaeology of Rita P. Wright
- 6:15 Nancy Highcock—Dress Pins, Textile Production, and Women's Economic Agency across Early Second Millennium Anatolia
- 6:30 Holly Pittman—Textile Production in the Uruk Period: New Insights from Glyptic Imagery
- 6:45 Cathy Costin—Technology and Social identity on the North Coast of Peru
- 7:00 Bart Victor, Arthur Demarest and Chloé Andrieu—Changing Patterns of Production and Exchange in “Borderland” Economies: The Case of the Classic Maya Civilization
- 7:15 Heather Miller and Gregory L. Braun—Unexpected Expertise: Archaeological Science and the Creative Skills of Indus Craftspeople
- 7:30 Sneh Patel—Ceramic Technological and Stylistic Boundaries on the Indus Frontier of Gujarat
- 7:45 Pam Crabtree—A Re-examination of the Animal Bone Remains from Rojdi, a Sorath Harappan Site in Northwest India
- 8:00 Cameron Petrie, Adam Green, Hector Orengo and Ravindra Singh—Hidden in Plain Sight: Reconstructing Landscapes of Urbanism in Northwest India
- 8:15 Abigail Buffington and Smiti Nathan—Transformative Trees: The Social and Ecological Impact of Woody Taxa in Prehistoric Southern Arabia
- 8:30 Eli Dollarhide—Revealing the Local: A Look Inwards at the Archaeology of Southeastern Arabia
- 8:45 Teresa Raczek and Namita Sugandhi—Women's Labor and Scholarship Production in Archaeology: Celebrating the Mentorship of Rita P. Wright

**[122] SYMPOSIUM ■ AGENT OF CHANGE: THE DEPOSITION AND MANIPULATION OF ASH IN THE PAST****Room:** Hoover**Time:** 6:00 PM–9:00 PM**Chairs:** Barbara Roth and E. Adams**Participants:**

- 6:00 Barbara Roth—Ash Matters: The Ritual Closing of Domestic Structures in the Mimbres Mogollon Region
- 6:15 Susan Ryan—Sequencing Termination Events: Preparing Hearths for the Ritual Decommissioning of Ancestral Pueblo Pit Structures in the Northern U.S. Southwest
- 6:30 Myles Miller—Contexts of Ash Deposits in Jornada Mogollon Pithouse and Pueblo Settlements and Reflections on Their Meanings
- 6:45 E. Adams—Complex Closure Practices Involving Ash at a Small Pueblo in Northeastern Arizona
- 7:00 Michael Adler—Fire, Ash and Sanctuary: Pyrotechnology as Protection in the Pre-Colonial Northern Rio Grande
- 7:15 Carrie Heitman and Paul Reed—An Archaeology of Ash? Exploring Chacoan Contexts and Practices

Thursday Evening, April 12

- 7:30 Samantha Fladd, Saul Hedquist, E. Adams and Stewart B. Koyiyumptewa—  
Symbolic Associations: Assessing the Co-occurrence of Ash and Turquoise in  
the Ancient U.S. Southwest
- 7:45 Judy Berryman and William Walker—Ashes, Arrows, and Sorcerers
- 8:00 Cheryl Claassen—Ashes in Western US Rockshelters
- 8:15 Kenneth Sassaman, Asa Randall and Neill J. Wallis—The As(h)cendant:  
Cosmological Work of Material Traces of Burning in the American Southeast
- 8:30 Erin Nelson—Ash Deposition and Community Building in the Mississippian  
World: A Case Study from the Yazoo Basin
- 8:45 Marvin Kay—Ashes to Ashes, Dust to Dust in Caddoan Mortuary Ritual

**[123] SYMPOSIUM ■ MATERIAL CULTURE AND MULTIVOCAL CULTURAL DIALOGUE IN THE  
CONSTRUCTION OF THE CRIOLLO UNIVERSE OF THE CARIBBEAN**

**Room:** Madison A

**Time:** 6:00 PM–9:00 PM

**Chair:** L. Antonio Curet

**Participants:**

- 6:00 L. Antonio Curet—Cultural Interaction and Creolization (or Transculturation or  
Hybridization or Mestización or Criollización) in the Studies of the Ancient Past  
of the Caribbean
- 6:15 Jorge Ulloa Hung—Cultural Diversity and Transculturation in the Pre-Columbian  
Indigenous Universe of Northern Hispaniola
- 6:30 Perry Gnivecki and Mary Jane Berman —Were the Lucayans a Creole Society?
- 6:45 Roberto Valcárcel Rojas—Colonial Cuba: From Indian to Creole
- 7:00 Karen Anderson-Cordova—Indian Ethnic Complexity in Hispaniola and Puerto  
Rico and Its Implications for the Study of European/Indian Contact During the  
Early Colonial Period
- 7:15 Alice Samson and Jago Cooper—When Is Creolization?
- 7:30 Questions and Answers
- 7:45 Joseph Jean—Long-Term Survival of Indigenous Cultures in Haiti
- 8:00 Menno Hoogland, Angus Martin and Corinne L. Hofman—Reimagining Creole.  
The Deep History of Mixed Identities in the Windward Islands, Lesser Antilles
- 8:15 Mark Hauser—Language Shift and Material Practice
- 8:30 Douglas Armstrong—Indigenous and Transcultural Implications in the  
“Seasoning” of Early 17th-Century Settlers of Barbados
- 8:45 Jose Oliver—Discussant

**[124] SYMPOSIUM ■ INTRA-SITE SPATIAL ANALYSIS OF MOBILE PEOPLES: ANALYTICAL  
APPROACHES TO RECONSTRUCTING OCCUPATION HISTORY**

**Room:** Madison B

**Time:** 6:00 PM–9:00 PM

**Chairs:** Amy Clark and Joseph A. M. Gingerich

**Participants:**

- 6:00 Scott G. Ortman, Laura Scheiber and Zachary Cooper—Scaling Analysis of  
Prehistoric Wyoming Camp Sites—Implications for Hunter-Gatherer Social  
Dynamics
- 6:15 Randy Haas, Todd Surovell and Matthew O'Brien—Behavior from Spatial  
Structure in Archaeological Sites: A Working Model Based on Dukha  
Ethnography
- 6:30 Joseph A. M. Gingerich—Modeling Discrete Paleoindian Work Areas
- 6:45 Amy Clark—Knapping for the Thrill of It? The Non-conservation of Raw Materials  
at Middle Paleolithic Sites

Thursday Evening, April 12

- 7:00 Matthew O'Brien, Todd Surovell and Randy Haas—Using Ethnoarchaeology to Identify Spatial Patterns of Behavior in Domestic Dogs
- 7:15 Reuven Yeshurun—Contextual Taphonomy in Zooarchaeology: From Refuse Behavior to Site-Occupation Intensity in Levantine Epipaleolithic Camps
- 7:30 Questions and Answers
- 7:45 Todd Surovell, Matthew O'Brien and Randy Haas—Gender and Space in Campsites of Dukha Reindeer Herders
- 8:00 Nuno Bicho, Célia Gonçalves and João Cascalheira—GIS Tools for Intra-spatial Analyses: The Portuguese Mesolithic Cabeço da Amoreira Case Study
- 8:15 Brooke Morgan—When Window Mesh Is Worth It: Assessing the Potential of Microrefuse in Spatial Analysis of Hunter-Gatherer Sites
- 8:30 Nicholas Conard, Mareike Brenner, Knut Bretzke, Christopher Miller and Manuel Will—Interpreting Small-Scale, Intra-site Spatial Variation of Finds from the MSA Deposits at Sibudu Cave, South Africa
- 8:45 James Enloe—Spatial Analysis in the Woodland: Foraging Behavior in Sedentary Agricultural Societies

**[125] SYMPOSIUM ■ GETTING TO KNOW THE NEIGHBORS: ARCHAEOLOGICAL INVESTIGATIONS OF COMMENSAL ANIMALS**

**Room:** Tyler

**Time:** 6:00 PM–9:00 PM

**Chair:** Jillian Swift

**Participants:**

- 6:00 Jillian Swift—Getting to Know the Neighbors: Commensal Insights into Human-Ecosystem Dynamics
- 6:15 Arden Hulme-Beaman, Thomas Cucchi, Jeremy Searle and Keith Dobney—Competition for Resources: How Commensal Competition Informs Us of Past Human Activity
- 6:30 Thomas Cucchi, Lior Weissbrod, Jean-Christophe Auffray and Jean-Denis Vigne—On the Origin and Dispersal of the House Mouse
- 6:45 Lior Weissbrod and Yaron Dekel—Insights from Commensal Pathways into Domestication Origins
- 7:00 Eric Guiry—Archaeological Rat Diets Reflect Settlement Density: An Isotopic Investigation of Historical Rat Bones from Urban and Rural Sites in Upper Canada
- 7:15 Christina M. Giovas—Thieves, Stowaways, Hitchhikers, and Hangers-On: The Commensal Niche in the Prehistoric Caribbean
- 7:30 Karen Greig—Living on the Edge: Dogs and People in Early New Zealand
- 7:45 Stuart Hawkins and Sue O'Connor—Pigs by Sea: The Establishment of Pig Husbandry on Wallacean Islands during the Late Holocene
- 8:00 Cyler Conrad, Caitlin Ainsworth and Emily Lena Jones—A Commensal-Prey Relationship in Early Mainland Southeast Asia? The Case of the Burmese Hare (*Lepus peguensis*)
- 8:15 Andrew Somerville—From Neutral to Mutual: A Long-Term Perspective on Human-Rabbit Relationships in Highland Mexico
- 8:30 Thomas Leppard—Discussant
- 8:45 Questions and Answers

Thursday Evening, April 12**[126] SYMPOSIUM ■ COPROLITE RESEARCH: ARCHAEOLOGICAL AND PALEOENVIRONMENTAL POTENTIALS****Room:** Washington Room 1**Time:** 6:00 PM–8:45 PM**Chairs:** John Blong and Lisa-Marie Shillito**Participants:**

- 6:00 John Blong, Lisa-Marie Shillito and Dennis Jenkins—Terminal Pleistocene and Holocene Adaptive Strategies at the Paisley Caves, Oregon
- 6:15 Helen Whelton, Lisa-Marie Shillito and Ian Bull—Investigating the Nature and Timing of the Earliest Human Occupation of North America Using a Lipid Biomarker Approach
- 6:30 Ainara Sistiaga, Sepideh Parkour, Mathilde Poyet and Roger Summons—Variation in  $\delta^5\text{stanols}$  Excretion in Humans and Its Implications for the Application of Fecal Biomarkers in Archaeology
- 6:45 Mara Schumacher, Susan Mentzer, Cynthianne Debono Spiteri and Mihriban Özbasaran—Biomolecular and Micromorphological Analysis of Suspected Fecal Deposits at Neolithic Aşıklı Höyük, Turkey
- 7:00 Lisa-Marie Shillito, Helen Mackay, Ian Bull and Mike Parker Pearson—Feeding Stonehenge: The Potential of Coprolites as Tools for Reconstructing Diet
- 7:15 Natalia Eguez and Carolina Mallo—Fluorescence Applied to Modern Carnivore Excrements. A Reference Collection for Archaeological Deposits
- 7:30 Katelyn McDonough—Dietary Insights from a Middle Holocene Latrine Feature at the Connley Caves (35LK50), Oregon
- 7:45 Jenna Battillo—Reconstructing Diet from Combined Pollen, Macrofossil, and DNA Analysis of Human Paleofeces
- 8:00 Tim Riley—Fremont Paleocuisine: Reconstructing Recipes from Rectal Remnants
- 8:15 Vaughn Bryant—Coprolite Analysis: The Early Years
- 8:30 Questions and Answers

**[127] SYMPOSIUM ■ RECONSTRUCTING FORAGER LIFEWAYS AT THE PLEISTOCENE-HOLOCENE TRANSITION****Room:** Washington Room 2**Time:** 6:00 PM–9:15 PM**Chairs:** J. Scott Jones and Greg Maggard**Participants:**

- 6:00 Ben Potter—Human Land Use Strategies and Responses to Risk during the Pleistocene–Holocene Transition in Eastern Beringia
- 6:15 Marcel Kornfeld and Mary Lou Larson—Things Forgotten: The Unique of the Hell Gap Site
- 6:30 Kelton Meyer and Jason LaBelle—Kill, Camp, and Repeat: A Return to the Lindenmeier Folsom Site of Northern Colorado
- 6:45 David Kilby and Marcus Hamilton—New Investigations at Bonfire Shelter: A Consideration of Bison Jumps and Their Implications for Paleoindian Social Organization
- 7:00 Sean Farrell—New Investigations of Bone Bed 1, Bonfire Shelter: A High-Resolution Analysis of Late Pleistocene Deposits
- 7:15 Janaka Greene—Investigating the Cody Complex at the Capshaw site, a Late Paleoindian site in Texas
- 7:30 Andrew White—Patterns of Artifact Variability and Changes in the Social Networks of Paleoindian and Early Archaic Hunter-Gatherers in the Eastern Woodlands: A Critical Appraisal and Call for a Reboot

Thursday Evening, April 12

- 7:45 J. Scott Jones and Mark Norton—Paleoindian Site Formation in the Tennessee River Valley
- 8:00 Lauren Woelkers and Jay Franklin—First Foragers on the Upper Cumberland Plateau of Tennessee: Transitional Late Pleistocene and Early Holocene Lithic Technology at Rock Creek Mortar Shelter (40Pt209)
- 8:15 Greg Maggard and Kary Stackelbeck—Late Pleistocene Aggregation Sites on the Peruvian North Coast: A New Look at Paiján Settlement
- 8:30 Sarah Meinekat, Christopher Miller and Kurt Rademaker—A Geoarchaeological Approach to Site Formation and Structures of Inter-zonal Paleoindian Sites in Southern Peru
- 8:45 Edward Koole—Paleo-Indian Evidence from Rock Shelters of the Pains Region, Southeastern Brazil: Typology, Technology and Chronology of the Lithic Material and Its Classification in Three Horizons
- 9:00 D. Shane Miller—Discussant

**[128] SYMPOSIUM ■ CLASSIC VERACRUZ DEITIES****Room:** Lincoln 2**Time:** 6:00 PM–9:15 PM**Chairs:** Rex Koontz and Cherra Wyllie**Participants:**

- 6:00 Cherra Wyllie—Discussant
- 6:15 Joshua Englehardt and Michael Carrasco—Transformation of the Gods: Symmetry and the Construction of Mesoamerican Deity Systems in the Middle Formative
- 6:30 Stephanie Strauss—The Epi-Olmec Conundrum: Looking for Answers in All the Wrong Places
- 6:45 Lourdes Budar—Dioses de Agua y Montaña. El paisaje ritual y las deidades enmascaradas de la costa este de Los Tuxtlas
- 7:00 Philip Arnold—A Fettered Serpent? Quetzalcoatl and Classic Veracruz
- 7:15 Annick J. E. Daneels—Making Sense of a Holy Trinity: The Dioses Narigudos of Classic Period Central Veracruz
- 7:30 Sara Ladron De Guevara—The Eyes of God
- 7:45 Rex Koontz—A Tajin Deity Associated with Decapitation Sacrifice
- 8:00 Kim Richter and María Eugenia Maldonado Vite—Domestic vs. Elite Religious Cults: Revisiting the Huastec Tlazolteotl-Ixcuina Deity Complex
- 8:15 Ivonne Reyes Carlo—Atributos y función de las deidades del Clásico en el Centro de Veracruz: una propuesta metodológica
- 8:30 Caitlin Earley—Becoming Divine: Stone Sculpture and Deity Impersonation in Classic Veracruz Visual Culture
- 8:45 Arturo Pascual Soto—Dioses y gobernantes en El Tajin del Epiclásico (ca. 800–1000 d.C.)
- 9:00 Questions and Answers

**[129] SYMPOSIUM ■ PALIMPSEST URBANISM: CHARTING THE LONG-TERM DEVELOPMENT OF THE ANCIENT MAYA CENTER OF ACTUNCAN, BELIZE****Room:** Lincoln 3**Time:** 6:00 PM–9:15 PM**Chairs:** David Mixter and Lisa LeCount**Participants:**

- 6:00 Lisa LeCount—Examining the Institutionalization and Transformation of Maya Kingship at Actuncan, Belize Using Collective Action Theory

Thursday Evening, April 12

- 6:15 M. Kathryn Brown and Jason Yaeger—The Shifting Political Landscape of the Mopan Valley: A Diachronic Perspective
- 6:30 Thomas Jamison and David Mixter—Public Architecture and Space at Actuncan
- 6:45 Angela Keller—The View from Below: Plaza Spaces at Actuncan, Belize
- 7:00 Kara A. Fulton, David Mixter and Borislava Simova—Residential Trajectories of Commoner, Elite, and Noble Spaces at Actuncan, Belize
- 7:15 Carolyn Freiwald, Kara A. Fulton, Nicholas Billstrand and Destiny Micklin—Making an Ancestor at Actuncan: Exploring the Origins, Health, Burial Treatment and Taphonomy of a Late Classic Maya Residential Eastern Structure
- 7:30 Borislava Simova—Negotiations in the Ritual and Social Landscape of Actuncan, Belize
- 7:45 E. Christian Wells, Kara A. Fulton, David Mixter and Borislava Simova—The View from the Ground: How Geochemistry Informs Our Understanding of the Regal, Ritual, and Residential Character of Actuncan
- 8:00 Theresa Heindel—Ancient Maya Land Use: Water Management and Agricultural Production at Actuncan, Belize
- 8:15 John Blitz and Lisa LeCount—Groundstone Manos and Metates as a Measure of Ancient Maya Political Economy at Actuncan, Belize
- 8:30 David Mixter—Urban Reworking as Political Action at the Ancient Maya City of Actuncan, Belize
- 8:45 Olivia Navarro-Farr—Discussant
- 9:00 David Carballo—Discussant

**[130] SYMPOSIUM ■ DIGITAL HERITAGE TECHNOLOGIES, APPLICATIONS AND IMPACTS****Room:** Lincoln 4**Time:** 6:00 PM–9:15 PM**Chair:** Laura Harrison**Participants:**

- 6:00 Laura Harrison—Digital Heritage in Archaeology in the 21st Century
- 6:15 Emanuel Moss and Christopher H. Roosevelt—Digital Technology, Digital Practices: Incorporating Digital Techniques into Archaeological Excavation and Interpretation
- 6:30 Kacey Hadick—Archaeological Storytelling: Narrative Construction Using Virtual Reality
- 6:45 Robert DeMuth, Joshua J. Wells, Kelsey Noack Myers, David Anderson and Eric Kansa—Archaeological Geographies - A Reflexive Consideration of the Impact of Archaeology across Racial and Socioeconomic Regions Using DINAA
- 7:00 Katherine Cook and Genevieve Hill—Museums as Classrooms: Lessons in Applied Collaborative Digital Heritage
- 7:15 Nicola Lercari, Denise Jaffke, Jad Aboulhosn, Graham Baird and Anaïs Guillem—Citizen Science Archaeology at Bodie State Historic Park
- 7:30 Questions and Answers
- 7:45 Davide Tanasi, Ilenia Gradante and Stephan Hassam—From Field to Screen: Best Practices for Digital Recording and Global Sharing of Catacombs from Late Roman Sicily
- 8:00 John Wallrodt and Denitsa Nenova—Beyond Research Design: Digital Resource Management for the Next Generation
- 8:15 Worthy Martin, Carrie Heitman and Paul Reed—The Salmon Pueblo Archaeological Research Collection (SPARC) Project : Making the Data Accessible
- 8:30 Sarah Whitcher Kansa, Anne Austin, Ixchel Faniel, Eric Kansa and Ran Boytner—Considering Communities of Practice throughout the Data Lifecycle

Thursday Evening, April 12

- 8:45 Adam Rabinowitz and Iulian Bîrzescu—Communicating in Three Dimensions: Questions of Audience and Reuse in 3D Excavation Documentation Practice  
 9:00 Michael Decker—Discussant

**[131] SYMPOSIUM ■ PERSPECTIVES ON DOCUMENTARY RELATIONS, ETHNOGRAPHIC OBSERVATIONS AND ARCHAEOLOGICAL INTERPRETATIONS: PAPERS IN HONOR OF CARROLL L. RILEY**

**Room:** Maryland C

**Time:** 6:00 PM–9:30 PM

**Chairs:** John Carpenter and Matthew Pailes

**Participants:**

- 6:00 Richard Lange—The Southwest Journeys of Adolph F. Bandelier, Charles H. Lange, Elizabeth M. Lange, and Carroll L. Riley  
 6:15 Cynthia Radding—Reading Cultural Landscapes in Time and Space: Ostimuri in Historical Archives and Archaeological Remains  
 6:30 John Carpenter and Guadalupe Sanchez Miranda—Archaeology and Ethnohistory in the Sahuaripa Region of Eastern Sonora  
 6:45 Matthew Pailes—What's Really Important in the Ethnohistory of Sonora?  
 7:00 Natalia Martínez-Tagüena, Lorenzo Herrera-Casanova and Luz Alicia Torres-Cubillas—Comcaac Collaborative Ethnohistory: The Importance of Objects, Places, Routes and Leaders  
 7:15 Paul Fish and Suzanne Fish—Dimensions of Multi-ethnicity in Hohokam Society  
 7:30 Maren Hopkins—Archaeology and Ethnohistory of the Western Papaguería: Let's Not Forget the People  
 7:45 Deni Seymour—Whenever the Twain Shall Meet: Merging Ethnohistorical and Archaeological Data  
 8:00 Clay Mathers—Moho Rising: Sixteenth-Century Battlefields, Lived Lives, and the Creation of Archaeological and Historical Frameworks that Work  
 8:15 Richard Flint—Crossroads of Disciplines: Precipitating Causes and Latent Causal Conditions  
 8:30 Polly Schaafsma—Proposed Historical Origins of the Tablita Dance of the Rio Grande Pueblos  
 8:45 Samuel Duwe—Not Abandoning the Middle Place: Rethinking the Historic Tewa Pueblo World  
 9:00 Thomas Sheridan and Stewart B. Koyiyumptewa—The Way Forward: Native and Non-Native Collaboration as well as Multi-disciplinary Research Strategies  
 9:15 Norman Yoffee—Discussant

**[132] SYMPOSIUM ■ ARE WE INKAS? INKAS AND LOCAL POLITIES INTERACTIONS AS SEEN THROUGH THE MATERIAL CULTURE**

**Room:** Delaware A

**Time:** 6:00 PM–9:30 PM

**Chairs:** Alejandro Chu and Luisa Esther Diaz Arriola

**Participants:**

- 6:00 Gary Urton—The Tension between Standardization and Regionalism in Cord-Keeping in Tawantinsuyu  
 6:15 Florencio Delgado Espinoza—Interaction and Resistance against the Inka on the Land of the Cañaris, Southern Ecuador  
 6:30 Ronald Lippi, Alejandra Gudiño, Estanislao Pazmiño and Esteban Acosta—Incas and Yumbos at Palmitopamba, Tulipe and Other Notable Sites on the Northwestern Periphery of Tawantinsuyo



Thursday Evening, April 12

- 6:45 Josefina Vasquez—Puruwá Polity under Inka Rule in Colta, Chimborazo Province (Ecuador)
- 7:00 Luisa Esther Diaz Arriola—Ychsma Cultural Identity in Armatambo during Inca's Occupation, Peruvian Central Coast
- 7:15 Mayra Carmen and Krzysztof Makowski—Styles, Technology and Identities: Origins and Uses of Provincial Inca Ceramics in Pueblo Viejo-Pucará, a Huarochiri's Mitmaquna Settlement in the Lurin Valley
- 7:30 Jessica Christie—Inka Economic and Ritual Landscapes in the Cañete Valley: Strategies to Align the Lunahuana and Guarco
- 7:45 Alejandro Chu—Inka and Local Elite Interaction as Reflected at the Inka Site of Incahuasi, Cañete, South Central Coast of Peru
- 8:00 Viviana Siveroni—The Incas in Nasca: A Review of Data from the Northern Drainage
- 8:15 Lidio Valdez—The Inca State and the Valley of Acari, Peru
- 8:30 Jose Barragan—Fortification on the Margins of the Bolivian Eastern Highlands
- 8:45 Lynn Kim and Andrea Goytia —A Colonial Space in the Camata-Carijana Valley: A Review of the Tambo, Maukallajta
- 9:00 Valeria Franco Salvi and Carlos Angiorama—The Inca State from the South. Agricultural Landscape and Transformations in Pozuelos (Jujuy, Argentina)
- 9:15 Questions and Answers

**[133] SYMPOSIUM ■ CHASING HUNTER-GATHERERS AND EARLY FARMERS IN THE GREAT LAKES AND BEYOND – 45 YEARS OF RESEARCH DEDICATED TO UNDERSTANDING THE DYNAMICS BETWEEN PEOPLE, ENVIRONMENT, AND BEHAVIOR: PAPERS IN HONOR OF WILLIAM A. LOVIS**

**Room:** Delaware B

**Time:** 6:00 PM–9:30 PM

**Chairs:** Marieka Brouwer Burg, Randolph Donahue and Maria Raviele

**Participants:**

- 6:00 Susan Kooiman—Foodways and Technological Transformation in the Upper Great Lakes: A Multidimensional Analysis of Woodland Pottery from the Cloudman Site (20CH6)
- 6:15 Michael Hambacher—Traverse Ware: A Case Study in Ceramic Regionalization, Style Horizons, Interaction Patterns, and Ethnicity in the Late Prehistoric Upper Great Lakes
- 6:30 Kathryn Frederick—Identifying Subterranean Storage Features: A Cautionary Tale
- 6:45 Meghan Howey—Mishipishu and Danger in the Inland Waterway Landscape of Northern Michigan
- 7:00 Sean Dunham—Feeling the Juju: Archaeological Survey as Traditional Knowledge
- 7:15 Jon Carroll—Assyrians at the Gate: Rethinking the Siege at Tel Lachish
- 7:30 Randolph Donahue, Antony Dickson, Ann Clark and Fraser Brown—Further Understanding of Subsistence and Settlement in the Later Mesolithic of Northern England
- 7:45 Questions and Answers
- 8:00 Marieka Brouwer Burg—Certainty about Uncertainty: Lessons Learned from Modeling Human Land Use and Decision Making
- 8:15 Maria Raviele—Mentoring a Versatile PhD: From Archaeology to an AltAc Career
- 8:30 Michael Polk—Reflections of a Michigan State Graduate's Career in the American West
- 8:45 James Brown—Discussant

Thursday Evening, April 12

- 9:00 Lynne Goldstein—Discussant  
 9:15 George Monaghan—Discussant

**[134] SYMPOSIUM ■ NEW APPROACHES TO THE ARCHAEOLOGY OF RITUAL IN THE SUBTERRANEAN REALM**

**Room:** Maryland B

**Time:** 6:00 PM–9:45 PM

**Chairs:** James Brady and Cristina Verdugo

**Participants:**

- 6:00 Rebecca Sload—Means, Motive, and Opportunity: Use of the Sun Pyramid Cave at Teotihuacan Post Termination
- 6:15 Andrea Ogaz, Samantha Lorenz and Toni Gonzalez—Revisiting the Mortuary Function of Chultunes
- 6:30 Wendy Layco, Jessica Strayer, Samantha Lorenz and Toni Gonzalez—Cavetuns: Unexplored Theoretical Implications of a Discovery at Mul Ch'en Witz, La Milpa, Belize
- 6:45 Guillermo De Anda Alaniz—Reconceptualizing Chichen Itza: The Gran Acuífero Maya Project
- 7:00 Cristina Verdugo, Jeremy Coltman, James Brady and Guillermo De Anda Alaniz—Cenote Xtoloc: Paying Attention to the Ignored Cenote
- 7:15 Melanie Saldana, James Brady, Robert Schmittner, Cristina Verdugo and Guillermo De Anda Alaniz—Balankanche Revisited: Some Preliminary Observations
- 7:30 Allan Cobb, James Brady and Guillermo De Anda Alaniz—Demystifying the High Priest's Grave: Investigations in the Cave/Cenote below the Osario
- 7:45 Donald Slater and Ryan Collins—Just for the Celt of It: Investigations and Discoveries beneath the Petroglyph Panels of Aktun Kuruxtun, Yucatan
- 8:00 Eric Lo, Dominique Rissolo, Michael Hess, Dominique Meyer and Falko Kuester—Photogrammetric Techniques for Digital Documentation of Subterranean Maya Architecture
- 8:15 Nicholas Poister, Lilly Buckley Vargas and Holley Moyes—Fragmentary Ceramic Assemblages as a Record of Ritual Practice at Las Cuevas, Belize
- 8:30 Erin Ray and Holley Moyes—Investigations of Plastered Constructions at Las Cuevas, Belize
- 8:45 Marilyn Bueno—The Role of Rockshelters among the Lowland Maya
- 9:00 Jocelyn Acosta—Caves, Copper, and Pilgrimage: Reinterpretation of Quimistan Bell Cave in Northwestern Honduras
- 9:15 Joseph Orozco—Disregarded Ritual: A Critical Reassessment of North American Subterranean Features
- 9:30 Humberto Nation, Leah Minc, Holley Moyes, Polly Peterson and James Brady—Analysis of Culturally Derived Speleothem by INAA: An Analytic Approach to Sourcing

**[135] SYMPOSIUM ■ BURNING LIBRARIES: ENVIRONMENTAL THREATS TO HERITAGE AND SCIENCE**

*(Sponsored by SAA Climate Change Strategies and the Archaeological Record Committee)*

**Room:** Washington Room 3

**Time:** 6:00 PM–9:45 PM

**Chair:** Thomas H. McGovern

Thursday Evening, April 12**Participants:**

- 6:00 David Anderson, Thaddeus Bissett, Stephen Yerka, Joshua J. Wells and Eric Kansa—Drowning the Library: Sea-Level Rise and Archaeological Site Destruction in the Southeastern United States
- 6:15 Stephen Dockrill and Julie Bond—Swandro, Rousay, Orkney: Between Sea and Land
- 6:30 Amy Ollendorf, Chad Donnelly, Brady Woodard and Kyle Volk—Mitigation and Management in the Context of Climate Change at Three Historic Properties on the Great Plains, USA
- 6:45 Ramona Harrison—Saving Siglunes from the Sea
- 7:00 Anne Jensen—Salvaging Heritage and Data from Walakpa: A Case Study of the Walakpa Archaeological Salvage Project (WASP)
- 7:15 Isabel Rivera-Collazo—Coastal Erosion and Extreme Atmospheric Events: Climate Change and Coastal Cultural Heritage in Puerto Rico
- 7:30 Vibeke Vandrup Martens and Michel Vorenhout—The Follo Railroad Environmental Monitoring Project in Medieval Oslo, Norway
- 7:45 Ani St. Amand, Alice R. Kelley and Daniel H. Sandweiss—Assessing Destruction Risk of Cultural Resources: Primary and Secondary Impacts of Climate Change on the Archaeological Record
- 8:00 Konrad Smiarowski, Christian K. Madsen and Michael Nielsen—From Medieval Wool Tunics to Bone Powder: Rapid Degradation of Norse Middens in Southwest Greenland
- 8:15 Hans Harmsen, Jørgen Hollesen, Henning Matthiesen, Bo Eberling and Christian K. Madsen—Climate Change and the Rapid Loss of Organic Deposits in West Greenland
- 8:30 Alice R. Kelley, Jacquelynn Miller, Joseph T. Kelley, Arthur Spiess and Daniel Belknap—Burning Libraries and Drowning Archives: Shell Middens on the Maine Coast
- 8:45 Karen Walker, Jennifer Haney, William Marquardt, Rachael Kangas and Sara Ayers-Rigsby—Archaeological Shoreline Monitoring in a Climate-Changing SW Florida: The Case of a Rapidly Eroding, Rare, Late-Archaic Shell Midden at Calusa Island
- 9:00 Sandra Pentney and Stephen Bourne—Using the City Simulator Tool to Aid in Preservation during Resiliency Planning
- 9:15 Ruth Maher and Jane Downes—Sustainable Heritage through Community Engagement and Education
- 9:30 Rachael Kangas and Sarah Miller—Heritage Monitoring Scouts (HMS) Florida: Pragmatic Responses to Heritage at Risk

**[136] SYMPOSIUM ■ PERFORMING IN THE SHADOWS: RITUAL PRODUCTION IN CAVES AND ROCKSHELTERS****Room:** Washington Room 4**Time:** 6:00 PM–9:45 PM**Chairs:** Holley Moyes and Kelsey Hanson**Participants:**

- 6:00 Kelsey Hanson—On the Persistence of Tradition: Caves, Ritual Performance, and Secrecy among Multi-ethnic Communities in the U.S. Southwest
- 6:15 Scott Nicolay—Offerings in the Mogollon Underworld: Big-Eyed Beings and Birds
- 6:30 John Johnson—Cave Rituals in South Central California: Ethnographic and Archaeological Interpretations
- 6:45 Mary Gorden—Role of Rockshelters and Caves in Yokuts and Western Mono Cultures

Thursday Evening, April 12

- 7:00 Gerardo Gutiérrez and Mary E. Pye—Were-Jaguars, Birdmen, and Community Performance in the Rain Petition Ceremonies in the Caves of the Upper Balsas River, Eastern Guerrero, Mexico
- 7:15 Carlos Rincon Mautner—Cave Character, Ritual Performance, and Social Participation in the Mixteca-Puebla Region of Mexico
- 7:30 Holley Moyes, Kelsey Hanson and Erin Ray—The Space of Liminality: Between Ritual and Theater in Late Classic Ancient Maya Cave Rites
- 7:45 Margarita Diaz-Andreu and Tommaso Mattioli—Acoustic Effects at Las Cuevas Cave (Western Belize): An Archaeoacoustic Analysis of a Maya Cave
- 8:00 Karen Holmberg—Acts of Nature and Culture: Caves, Performance, and Transformation
- 8:15 Robin Skeates, Jessica Beckett and Cezary Namirski—Ritual Performances in and around Caves in Bronze Age Sardinia
- 8:30 Sonia Machause López—Walking into the Shadows in the Iberian Ritual Caves (6th–1st Centuries BC)
- 8:45 Agni Prijatelj—The Vital Force of Underground Places and Ritual Production in Caves and Rockshelters
- 9:00 Pablo Arias—Paleolithic Art and Ritual: An Exploration on Human Activity inside Caves in Southwestern Europe
- 9:15 Paul Pettitt—Neanderthal Activities in Caves: Was There a Ritual Dimension?
- 9:30 Takeshi Inomata—Discussant

**[137] SYMPOSIUM ■ NEXT GENERATION ARCHAEOLOGICAL SCIENCE: EVERYTHING YOU WANTED TO KNOW BUT WERE AFRAID TO ASK**

*(Sponsored by Journal of Archaeological Science)*

**Room:** Marriott Salon 3

**Time:** 6:00 PM–10:00 PM

**Chairs:** Robin Torrence and Marcos Martín-Torres

**Participants:**

- 6:00 Ellery Frahm—Pack Your Boots, Trowel, and Ray Gun: Advances in Portable XRF for Archaeological Science
- 6:15 Dolores Piperno—The Past (and Future?) of Our Crop Plants in Changing Global Environments
- 6:30 Stephen Shennan—Dates as Data: Where Are We Now in Using Radiocarbon Dates to Infer Population Histories?
- 6:45 Sam Lin—Archaeological Science or Scientific Archaeology: Where Does “Science” Lie in Stone Artefact Research?
- 7:00 Tamsin O’Connell—Isotopic Analysis for Palaeodiet and Geolocation
- 7:15 Laure Dussubieux, Thomas Fenn, Shinu Abraham and Alok Kanungo—Pushing Boundaries in the Scientific Investigation of Glass: A New Project to Source Ancient Indian Glass
- 7:30 Laura Weyrich, Alan Cooper and Keith Dobney—Ancient DNA Analysis of Microbes Preserved in Dental Calculus: Challenges and Opportunities
- 7:45 Questions and Answers
- 8:00 Siran Liu, Thilo Rehren, Wei Qian, Jianli Chen and Marcos Martín-Torres—A Complex History of Human-Environment Interaction Revealed by the Study of Metal Production Industries in Imperial China
- 8:15 Gilliane Monnier—Lithic Residue Analysis in 2018: Prospects and Challenges
- 8:30 Philippe Dillmann, Stéphanie Leroy, Sylvain Bauvais, Maxime L’Heritier and Alexandre Disser—New Insights for Provenance Studies of Iron Artifacts
- 8:45 Annelou Van Gijn—Back to Basics: Next Generation Experimental Archaeology

Thursday Evening, April 12

- 9:00 Nathan Wales, Kristen Gremillion, Bruce D. Smith, Melis Akman and Benjamin K. Blackman—The Future of Paleogenomics in Archaeology: Insights from a Multidisciplinary Study on Sunflower Domestication
- 9:15 Chris Hunt, Evan Hill, Paula Reimer and Graeme Barker—Radiocarbon Dating of Land Snail Shell and the Chronology of MSA-Neolithic Human Activity in the Haua Fteah, Libya
- 9:30 Nicole Boivin—Discussant
- 9:45 David Thomas—Discussant

**[138] SYMPOSIUM ■ ARCHAEOLOGICAL COLLECTIONS CARE FOR THE COLLECTIONS SPECIALIST: CURRENT TOPICS AND INNOVATIVE TRENDS IN THE REPOSITORY**  
*(Sponsored by SAA Committee on Museums, Collections, and Curation)*  
**Room:** Lincoln 5  
**Time:** 6:00 PM –10:00 PM  
**Chairs:** Danielle Benden and Michelle Knoll

**Participants:**

- 6:00 Danielle Benden and Mara Taft—New Digs for an Old Collection: A Case Study in Rehabilitating Legacy Collections
- 6:15 Michelle Knoll—Wrestling That 200-Pound Gorilla in the Room: Practical Solutions for the Care and Management of Associated Records
- 6:30 Morag Kersel—Curatorial Cures: Storage, Partage, and the Colonial
- 6:45 Nancy Odegaard—Collections Care and Preventive Conservation in the Archaeological Repository
- 7:00 Glenna Nielsen-Grimm—Solutions for Stabilizing and Caring for Organic Archaeological Collections
- 7:15 Nicolette Meister and William Green—Solutions for Stabilizing and Caring for Inorganic Archaeological Collections
- 7:30 Questions and Answers
- 7:45 Patricia Emerson and Nancy Hoffman—Technical, Political and Social Issues in Archaeological Collections Data Management
- 8:00 Jodi Reeves Eyre—Resources, Goals, and Standards: The Basics of Digitizing Archaeological Collections and Legacy Materials
- 8:15 David Knoerlein—Museum Quality Images Every Time, “It’s So Easy an Archaeologist Can Do It”
- 8:30 Julia King—Wonderful Things: Using Legacy Archaeological Collections for Research
- 8:45 Paola Schiappacasse—Stored and Forgotten: Academic Research Projects Using Archaeological Collections
- 9:00 John Hansen—When Is “Near” Close Enough? Old Data, New Interfaces and an Imperfect Present
- 9:15 Sheila Goff—Exhibit Development through Partnerships with American Indian Tribes and Museums
- 9:30 Maxine McBrinn, Lenora Tsosie and Joseph Aguilar—How to Update a Classic: The Renewal of Here, Now and Always at the Museum of Indian Arts and Culture
- 9:45 Questions and Answers

Thursday Evening, April 12**[139] SYMPOSIUM ■ CONTEXTUALIZING MUSEUM COLLECTIONS AT THE SMITHSONIAN INSTITUTION****Room:** Lincoln 6**Time:** 6:00 PM –10:00 PM**Chairs:** Maria Martinez and Risa Arbolino**Participants:**

- 6:00 Maria Martinez and Esther Rimer—Accessing the Object Collections at the Smithsonian's Institution National Museum of the American Indian and National Museum of Natural History
- 6:15 Maria Galban—Going Retro: Reconstructing NMAI Collections Histories
- 6:30 Vernon Knight—Communities of Practice and Sequencing from Older Caribbean Collections in the NMAI and NMNH
- 6:45 Alice Knaf, Joanna Ostapowicz and Gareth Davies—SIBA: The Research Potential of Bahamian/TCI Museum Collections
- 7:00 Rosemary Joyce—Archaeology in and with Museums: A Case Study from Honduras
- 7:15 Ainslie Harrison, Harriet "Rae" Beaubien, Kimberly Cullen Cobb, Emily Kaplan and Jennifer Giaccai—Re-contextualizing Pre-Columbian Gold and Resin Artifacts from Panama in the National Museum of the American Indian
- 7:30 Davide Domenici—An Underground Home for Earthly Beings. Reconstructing the Archaeological Context of a Lot of Mesoamerican Mosaic Encrusted Artifacts in the National Museum of the American Indian Collections
- 7:45 Cara Tremain—Taking Ancient Maya Vases off their Pedestals: A Case Study in Optical Microscopy and Ultra Violet Light Examination
- 8:00 Alexander Benitez—The Central American Ceramics Research Project: A Case Study on How to Make Old Museum Collections Relevant Again
- 8:15 Erin Sears—The New Adventures of Old Ceramic Figurines from Tres Zapotes, Mexico
- 8:30 Ann Rowe—Reconstructing the Inca Occupation Period in Chancay
- 8:45 Emily Kaplan—Materials Characterization at the National Museum of the American Indian: (Mostly) Non-destructive Analysis
- 9:00 Alyson Thibodeau, Allison Curley, Emily Kaplan and Ellen Howe—Lead Isotopes as Chronological Markers for Colonial Period Ritual Drinking Vessels in the Andes
- 9:15 Edward Jolie—Threads from the Present and the Past Come Together in Smithsonian Collections
- 9:30 Klinton Burgio-Ericson—Revisiting the Rubber-Sided Museum: A Case Study in Collections-Based Research
- 9:45 Steven LeBlanc—Discussant

**[140] SYMPOSIUM ■ EXTRACTION SITES AND CULTURAL LANDSCAPES***(Sponsored by SAA Prehistoric Quarries and Early Mines Interest Group)***Room:** Thurgood Marshall Ballroom East**Time:** 6:00 PM–10:00 PM**Chair:** Lynn Fisher**Participants:**

- 6:00 Lynn Fisher, Susan Harris, Corina Knipper and Rainer Schreg—Lithic Production and Consumption in a Chert-Rich Upland: Exploring Local Patterns on a Neolithic Landscape in Southern Germany
- 6:15 Michael Brandl and Daniel Modl—The Rein Basin Chert Mine, Styria, Austria: A Neolithic Center for Tabular Chert Quarrying
- 6:30 Tao Shi—Resource, Transportation and the Political Landscape of the Chinese Bronze Age

Thursday Evening, April 12

- 6:45 Andrew Zipkin, Stanley Ambrose, Gideon Bartov, Alexander Taylor and Mercy Gakii—Ethno-archaeometry of Ochre Mineral Pigment Extraction, Transport, and Use in the Kenya Rift Valley
- 7:00 Rachel Horowitz—Chert Extraction and Production in Resource-Rich Regions: Chert Economies among the Late Classic Maya of Western Belize
- 7:15 Kristen Fuld and Terry Ozburn—Cultural Landscapes of Glass Buttes, Oregon
- 7:30 Jeanne Binning—Prehistoric Tool Stone Acquisition and Use in the Central Mojave Desert
- 7:45 Ron Adams—Examining Patterns of Toolstone Procurement in an Edible Lithic Landscape on the Columbia Plateau
- 8:00 Questions and Answers
- 8:15 Terry Ozburn—Estimating Orthoquartzite Quarry Production on the Llano Estacado
- 8:30 Douglas MacDonald—Cougar Creek Obsidian: Quarry Activity and Secondary Processing of a Minor Yellowstone Obsidian
- 8:45 Anne S. Dowd—Sacred Stone, Sacred Land: A Traditional Native American Quarry Cultural Landscape
- 9:00 Stance Hurst, Ricardo Chacon, Eileen Johnson and Doug Cunningham—Lithic Technology of Manufacturing Stone Tools at Gravel Quarry Source Locations Using Heat-Treatment
- 9:15 Ryan Parish and Brad Koldehoff—Documenting the Crescent Hills Quarry Complex, Missouri
- 9:30 Greg Hendryx, Joost Morsink and Charlotte Pevny—From Quarry to Mine: Citronelle Gravel Extraction in Southwest Mississippi
- 9:45 Victor Serrano—In the Hunt for Mona Island Guano Miners: Archival Documentation in the General Archives of Puerto Rico

**[141] SYMPOSIUM ■ ARTIFACT CHARACTERISTICS, PRODUCTION PROCESSES AND SOCIAL INTERACTIONS IN THE ANDEAN LANDSCAPE**

**Room:** Thurgood Marshall Ballroom South

**Time:** 6:00 PM–10:00 PM

**Chair:** Ann Peters

**Participants:**

- 6:00 Ann Peters—Cultivation and Herding Practices, Fiber Colors and Textile Styles in the Paracas-Nasca Transition
- 6:15 Michelle Young—From Near and Far: Application of Archaeometric Techniques to Characterize Regional and Long-Distance Interaction at the Formative Period Center of Atalla, Peru
- 6:30 Christian Mader, Markus Reindel and Johnny Isla—Sea Shells in the Mountains and Llamas on the Coast: The Vertical Economic Organization of the Paracas in Palpa, South Peru (370–200 BC)
- 6:45 Dawn Kriss, Ellen Howe and Judith Levinson—A Technical Study of Post-Fire Painted Paracas Ceramics: Regional Exchange and Material Culture
- 7:00 Jessica Lévy—A Pyro-Engraved Gourd from Cahuachi: Iconographic and Technical Analysis of a Nasca Masterpiece
- 7:15 Kathleen Huggins—It's (Not) Just a Phase: Characterizing Surfacing Techniques in the Ancient Andes
- 7:30 Elizabeth Klarich and Laure Dussubieux—Making and Moving Pottery in the Northern Lake Titicaca Basin, Peru
- 7:45 Olga Gabelmann—Investigations on the Chaîne Opératoire, Technique and Practice: Formative Period Pottery Workshops in the Cochabamba Valley

Thursday Evening, April 12

- 8:00 Estefanía Vidal-Montero, Itací Correa, Liz Vilches, Francisco Gallardo and Mauricio Uribe—Technologies of Clay: Pottery, Architecture, and the Transformation of Mud in the Atacama Desert (South-Central Andes)
- 8:15 Nicola Sharratt—Tradition and Transformation during the Middle Horizon to LIP Transition: Visual and Compositional Analyses of Tumilaca and Estuquiña Pottery in the Moquegua Valley, Peru
- 8:30 Kayeleigh Sharp—Beneath the Surface: Steps toward Resolving Gallinazo-Mochica Debates in Peru's Northern North Coast
- 8:45 Miriam Domínguez—Renderings of Knowledge and History in the Jubones River Basin: Neutron Activation Analyses and Petrography in the Ceramics of Potrero Mendieta (ca. 1,000 BCE)
- 9:00 Benjamin Carter—Making Bead Makers: Durability and Change in a Community of Practice among the Manteño-Guancavilca of Ecuador
- 9:15 Maria Masucci—Pottery Rituals and Ritual Pottery: Ceramic Production, Use, and Disposal among the Guancavilca of Coastal Ecuador (AD 800–1532)
- 9:30 María Inés Velarde and Pamela Castro de la Mata—Produccion metalurgica en la Costa Sur: de Paracas a Nasca
- 9:45 Izumi Shimada—Discussant

**[142] SYMPOSIUM ■ RECONCEPTUALIZING RURALITY: CURRENT RESEARCH IN THE ANCIENT MAYA HINTERLANDS**

**Room:** Marriott Salon 2

**Time:** 6:00 PM–10:00 PM

**Chair:** Céline Lamb

**Participants:**

- 6:00 Edy Barrios, Cameron L. McNeil, Mauricio Díaz, Walter Burgos and Antolín Velásquez—The Country and the City: Explorations of the Relationship between Río Amarillo and Copan, in the Copan Valley, Honduras
- 6:15 Christine C. Dixon and Payson Sheets—The Complex Community of Cerén, El Salvador: a Classic Maya Example of Heterogeneity
- 6:30 Markus Eberl, Sven Gronemeyer and Claudia Marie Vela González—A Non-elite Termination Ritual at the Classic Maya Capital of Tamarindito
- 6:45 Eva Lemonnier and Charlotte Arnauld—Defining Rurality at La Joyanca and Naachtun (Guatemala): Land Use, Architecture and Social Dynamics
- 7:00 Pete Demarte, Scott Macrae and Gyles Iannone—The Ancient Maya Settlement of Waybil, Belize: Middle-Level and Hinterland Settlement Investigations
- 7:15 Victoria Ingalls and Jason Yaeger—Public Spaces and Polity Making in Maya Hinterland Communities: A Case Study from San Lorenzo, Belize
- 7:30 Fred Valdez—Homogeneity, Diversity, and Complexity between Hinterland Communities of NW Belize
- 7:45 Stanley Walling—Late Classic Maya Commoner Myth, Ritual, and Landscape at Chawak But'ob, Belize
- 8:00 David Hyde—Elite Maya Social Identity at a Hinterland Community: The View from Medicinal Trail, NW Belize
- 8:15 Roberto Lopez Bravo—A Tale of Two Communities: Changing Aspects of Rurality at El Lacandon, Palenque, Chiapas
- 8:30 Chelsea Fisher—Three Walks Through Tzacauil: Engaging the Rural Landscape of Central Yucatán 2000 Years Ago, 1000 Years Ago, and Today
- 8:45 Luis Pantoja, Iliana Ancona, Maria Gomez and Claudia Gongora—Social Complexity of Peripheral Settlements on the Regional Capital of Ichkaansihoo
- 9:00 Céline Lamb—Crafting, Ritual, and the Constitution of Rural Complexity: Household and Community Practices of Distinction and Affiliation at Chunhuayum, Yucatán



Thursday Evening, April 12

- 9:15 Rafael Cobos—Discussant  
 9:30 Nan Gonlin—Discussant  
 9:45 Questions and Answers

**[143] SYMPOSIUM ■ BIOMOLECULES AND MUSEUMS COLLECTIONS: CHALLENGES AND BEST PRACTICES FOR DESTRUCTIVE SAMPLING**

**Room:** Taft

**Time:** 8:00 PM–10:00 PM

**Chairs:** Rita Austin, Courtney Hofman and Sabrina Sholts

**Participants:**

- 8:00 Rita Austin, Courtney Hofman and Sabrina Sholts—Strategies for Understanding Biomolecular Preservation within Archaeological Collections  
 8:15 Sabrina Sholts—Ancient Biomolecules and Destructive Sampling at the National Museum of Natural History  
 8:30 Trisha Biers and Marta Mirazón Lahr—Innovation and Curation: Conservation and Access of University-Held Collections for Research  
 8:45 Samuel Carreon, Rita Austin and Sabrina Sholts—Caries from a Museum Skeletal Collections  
 9:00 Niels Lynnerup, Damgaard Peter, Hansen Henrik, Morten Allentoft and Ashot Magaryan—We just need a few milligrams....  
 9:15 Allison Mann, Susanna Sabin, Kirsten Ziesemer, Kirsten Bos and Christina Warinner—Differential DNA Preservation in Archaeological Dental Calculus and Dentin Has Implications for Ancient Microbiome Research  
 9:30 Logan Kistler, Saiful Islam, Mark Nesbitt, Roselyn Ware and Robin Allaby—The Search to Resurrect Muslin Cotton in Bangladesh  
 9:45 Cara Monroe, Paul Sandberg, Rita Austin, Marc Levine and Cecil Lewis—Ancient DNA Analyses of Dental Calculus from Plains Village Collections

**[144] SYMPOSIUM ■ “THE BRITISH ISLES”: ARCHAEOLOGICAL REALITY OR MODERN GEOPOLITICAL CONSTRUCT?**

**Room:** Park Tower Suite 8222

**Time:** 8:30 PM–10:00 PM

**Chair:** Allison Casaly

**Participants:**

- 8:30 Susan Johnston—Ireland in the Iron Age: Interaction, Identity, and Ritual  
 8:45 Kathryn Whalen and T. L. Thurston—“Milk sweet and sower, bread in cakes”: United and Divided Foodways in Post-Medieval Northern Ireland  
 9:00 Allison Whitlock—Medieval Agricultural Practices in the “Champion” Region  
 9:15 Marc Vander Linden—“British”, “Irish” and “Continentish”: Practising Comparative in the Later Prehistory of North-Western Europe  
 9:30 Ian Armit—Can We Define a British Iron Age?  
 9:45 Allison Casaly—A Distant Perspective: Characterization of Britain and Ireland in Studies of Large-Scale Exchange

- [145] **SYMPOSIUM ■ CASE STUDIES FOR THE SALALAH DOCTRINE: ARCHAEOLOGICAL HERITAGE MANAGEMENT OF WORLD HERITAGE SITES**  
(Sponsored by ICAHM)  
**Room:** Taylor  
**Time:** 8:45 PM–10:00 PM  
**Chair:** John Peterson

**Participants:**

- 8:45 Cynthia Dunning Thierstein, Sabah Jasim, Eisa Yousif and Ellinor Dunning—  
Mleiha Archaeological Park: Management of a Future UNESCO World Heritage  
Site within Nature and Culture
- 9:00 John Peterson—World Heritage Listings, Changing Climate, and the Salalah  
Doctrine: Archaeological Heritage Management at Nan Madol Monument,  
Pohnpei, FSM
- 9:15 Ian Lilley—Discussant
- 9:30 Assaad Seif—The Doctrine for Management of Archaeological World Heritage  
Sites, the Case of Some Selected Sites in Lebanon
- 9:45 Assaad Seif—Discussant