





TUESDAY MORNING

8:30 AM - Keynote Address

Dr. Ken Kvamme

SCE Auditorium

9:30 AM Coffee Break

General Papers

General - GIS
Room: SCE House

	Room: OOL House
9:50 AM	Caswell, Edward, An Analysis of Selected Variables that Affect the Production of Cost Surfaces
10:10 AM	Becker, Daniel, Christian Willmes, Andreas Bolten, María de Andrés- Herrero, Gerd-Christian Weniger, Georg Bareth, Influence of Differences in Digital Elevation Models and their Resolution on Slope-Based Site Catchment Modelling
10:30 AM	Beusing, Ruth , Temporal-GIS Tools for Mixed and Meso-Scale Archaeological Data
10:50 AM	James, Vivian, Context as Theory:

11:10 AM Sharp, Kayeleigh, Testing the 'Small-Site' Approach with Multivariate Spatial Statistical and Archaeological Network Analysis

Towards Unification of Computer

Applications and Quantitative Methods

11:30 AM **Groen, Mike**, Geospatial Analysis, Predictive Modelling and Modern Clandestine Burials

in Archaeology

11:50 AM Slayton, Emma, Jan Athenstädt, Corinne Hofman, Jan Hildenbrand, Seafaring with Mental Sign Posts: Connecting Materials with Canoe Routes in the Archaic Age Northern Lesser Antilles

Open Open Open. The Rise of Open Scientific Publishing and the Archaeological Discipline: Managing the Paradigm Shift

Education and Dissemination Room: SCE 216

Organizers: Arianna Traviglia, Xavier Rodier

9:50 AM	The Last of the Publishers
10·10 AM	Pound Cupliffo Hanriotta Potar

10:10 AM Roued-Cunliffe, Henriette, Peter Jensen, What is Open Data in an Archaeological Context?

10:30 AM Brin, Adam, Francis Pierce-McManamon, Leigh Anne Ellison, The Challenges of Open Access for Archaeological Repositories

10:50 AM Kondo, Yasuhisa, Atsushi Noguchi, Best Practices and Challenges in Promoting Open Science in Archaeology: Two Narratives from Japan

11:10 AM Rodier, Xavier, Olivier Marlet, How to Combine Archaeological Archives, Linked Open Data and Academic Publication, a French Experience

11:30 AM Buard, Pierre-Yves, Elisabeth Zadora-Rio, Publishing an Archaeological Excavation Report in a Logicist Workflow

11:50 AM Kansa, Eric, Anne Austin, Ixchel Faniel, Sarah Kansa, Ran Boynter, Jennifer Jacobs, Phoebe France, A Reality Check: The Impact of Open Data in Archaeology

Same as it ever was... Same as it ever was

Critical Reflections Room: SCE 217

Organizers: Hugh Corley, Lorna-Jane Richardson

9:50 AM Pageau, Hanna, An Inclusive Archaeology: Being Able in Archaeology

- Foreman, Penelope, "Well, actually...": 10:10 AM The Othering of Women in the Computing and Programming Communities and Its Effects on Digital Archaeology 10:30 AM Ni Chiobhain Enqvist, Delia, Whose (Maritime) Archaeology is It Anyway? 10:50 AM Hassett, Brenna, Suzanne Pilaar Birch, Victoria Herridge, Rebecca Wragg Sykes, TrowelBlazers: Raising Horizons for a Diverse Digital Archaeology 11:10 AM Corley, Hugh, Privilege and Digital Archaeology 11:30 AM Richardson, Lorna-Jane, Digital Archaeology and Digital Inequalities: A View from a Sociology Department 11:50 AM Discussion Urbanism at the Micro, Meso and Macro Scales: Advances in **Computational and Quantitative** Methods to Study Cities and their **Built Environments** GIS **Room: SCE Auditorium** Organizers: Eleftheria Paliou, Adrian Chase 9:50 AM Cabaniss, Andrew, Diversity from the Bottom Up: Modeling Cities as Communities of Diverse Households 10:10 AM Cesaretti, Rudolf, Re-Evaluating Settlement Population Estimation: An Analogue-Based Method for Modeling
- Patterned Variation in Population Density 10:30 AM Levine, Evan, Daniel Plekhov, Patterns of Urbanism in Bactria: Reevaluating a Paradigm Through Remote Sensing Hermitt, Elijah, Erika Maxson, Kirk 10:50 AM French, Damien Marken, Derek Shaffer, Timothy Murtha, Hydrologic Design in Three Maya Cities: Using Regional Topographic Data, Hydrologic Analysis in GIS and Archaeology for a Comparative Analysis of Palengue. Tikal, and El Peru 11:10 AM Baumanova, Monika, Ladislav Smejda, Heinz Ruther, The Streets of Timbuktu Old Town. Moving Goods,
- People and Ideas on the Coast of the Sahara
- 11:30 AM Shpuza, Ermal, The Effect of Gridiron Street Pattern on the Urban Growth of Adriatic and Ionian Coastal Cities 1800-2010

- 11:50 AM Crawford, Katherine, Unravelling Urban Religious Landscapes: Modelling Processions at Ostia
- 12:10 PM Klassen, Sarah, Jonathan Weed. Damian Evans. Discerning the Urban Morphology of Angkor Using a Semi-Supervised Algorithm for Manifold Learning

The Creation of Big Data Labs for Archaeology, Heritage, and Global **Initiatives**

Broader View - Digital Archaeology and the Humanities Room: SCW 460/462

Organizers: Thomas Levy, Michael Decker

- 9:50 AM Decker, Michael, Thomas Levy, Maurizio Forte, Ethan Watrall, Introduction
- 10:00 AM Decker, Michael, CVAST: The USF Center for Virtualization and Applied Spatial Technologies
- 10:20 AM Levy, Thomas, Margie Burton, The UC San Diego Center for Cyber-Archaeology and Sustainability
- 10:40 AM Forte, Maurizio, The Dig@Lab at Duke University
- 11:00 AM Watrall, Ethan, MATRIX: The Center for Digital Humanities & Social Sciences
- 11:20 AM Tanasi, Davide, Learning Through Objects: 3D Digital Imaging, 3D Printing and Haptic Technology for Public Outreach in Archaeology
- 11:40 AM Colobran, Miguel, Juan Antonio Barcelo, Igor Bogdanovic, Reusing Archeological Information to Improve Modeling and Research: An Interoperability Data Schema
- 12:00 PM Watrall, Ethan, Mbira: A Platform to Build, Serve, and Manage Mobile Heritage Experiences

NEH Roundtable on Advanced Challenges in Theory and Practice in 3D Modeling

3D Acquisition / Object Modeling Room: SCW 464

Organizers: Alyson Gill, Heather Richards-Rissetto, Lisa Snyder

- 9:50 AM Carter, William, The Life of Attributes: Meta and Paradata as 3D Point and Object DNA for Heritage Providence
- 10:10 AM Clinton, Miriam, A Workflow to Integrate 3D Data Acquisition with Traditional Artifact Study? Lessons from Mouliana

10:30 AM Ulguim, Priscilla, 3D Digital Models 10:10 AM Filippucci, Marco, Fabio Bianconi, and Bioarchaeology: Challenges and Federica Magi Meconi, Models and Proposals for Practice Parameterization of the Five Orders of Architecture 10:50 AM Massari, Lauren, William Rourk, Shavne Brandon, Jama Coartney, 10:30 AM Eve, Stuart, Guy Hunt, Michael Worthy Martin, Chip German, Johnson, Jessica Ogden, John Layt, Challenges in Processing, Delivering, 10 Years of Online Archaeological and Archiving Large Amounts of 3D Databases - Revolution, Convolution, Data **Evolution** 11:10 AM 10:50 AM Empler, Tommaso, 3D Modeling to Mudge, Mark, Computational Photography, Scientific Imaging, and the Reconstruct a Paleontological Site: Preservation of 3D Digital Museum of Casal de' Pazzi in Rome Representations 11:10 AM Senatore, Luca, Michela Cigola, 11:30 AM Richards-Rissetto, Heather, Arturo Gallozzi, New Methodologies for Knowledge and Valorization: The Digital Challenges of Peer-Review: Where Survey Made by Remote-Controlled Does 3D Archaeological Scholarship Mobile Platform: The Case Study of the Fall under the Umbrella of Digital Humanities Scholarship? Roman Casinum City 11:50 AM 11:30 AM Richards-Rissetto, Heather, Alyson Caldarone, Adriana, 3D Printing and Gill, Roundtable Augmented Reality: Integration, Methods and Communication for Cultural Heritage. Rip - Model - Learn: Towards the 11:50 AM Bercigli, Monica, Stefano Bertocci, **Total Model** Digital Documentation of Masada Fortress in Israel: Integrated Broader View - Digital Archaeology and Methodologies of Survey and Representation the Humanities Room: SCW 466/468 12:10 PM Carnevali, Laura, Marco Carpiceci, Organizers: Carlo Bianchini, Alfonso Ippolito, Carlo Andrea Angelini, Problems Concerning Inglese, Luca Senatore Elaboration and Representation in

9:50 AM

Sole.

Luce, Fabio, Digital Surveying and Ideal Reconstruction for Total Hybrid Model: The Case of Fort Presanella in Val di Italian Rock-Hewn Architecture

TUESDAY AFTERNOON

Digital Archaeology - Where are We and How do We Fit In? / SIG **Education and Outreach**

Critical Reflections Room: SCE 216

Organizers: Paul Reilly, John Pouncett, Stephen Stead

12:45 PM Brin, Adam, Francis Pierce-

McManamon, Leigh Anne Ellison, The

Archaeological Data Lifecycle

1:05 PM Verhagen, Philip, Education, Training,

and Outreach: A Call to Arms

Archaeology In and Out of the **Classroom: Digital Approaches to Archaeological Instruction**

Education and Dissemination Room: SCE 216

Organizer: Jeffrey Emanuel

2:00 PM Gandolfi, Eleonora, Public

> Engagement in Compulsory-Age Education with MOOCs: A Case Study from the Italian and English Context

2:20 PM Rourk, Will, Andrew Johnston,

Lauren Massari, Shayne Brandon, Arin Bennett, Jama Coartney, Worthy

Martin, Cultural Heritage Data Synthesis for Architectural History Field

Methods

2:40 PM Golubiewski-Davis, Kristina,

> Samantha Porter, Matt Edling, John Soderberg, Gilbert Tostevin, The Use and Reuse of 3D Scanned Lithic Refits

3:00 PM Galvin, Elizabeth, Jennifer Wexler,

Virtual Viewing: Engaging Audiences with the African Rock Art Digital Collection at The British Museum

Ground-penetrating Radar Advancements in the Americas

Geophysics/Remote Sensing Room: SCE 217

Organizer: Peter Leach

2:00 PM Morris, Isabel, Today's Surveys and

Tomorrow's Inversions: GPR Attribute

Analysis

2:20 PM Sturm, Jennie, Ground-Penetrating

Radar in Chaco Canyon, New Mexico: 40 Years of Mapping Chaco's Buried

Past

2:40 PM Lowry, Sarah, Shawn Patch,

> Mississippian Villages in East Tennessee: Geophysical Case Studies at Five Sites to Examine Community

Lavout and Land Use

3:00 PM Leach, Peter, Richard Boisvert, High-Frequency GPR for Real-Time 'Digital

Bisection' of Archaeological Features

Urbanism at the Micro, Meso and Macro Scales: Advances in **Computational and Quantitative** Methods to Study Cities and their **Built Environments**

Room: SCE Auditorium

Organizers: Eleftheria Paliou, Adrian Chase

2:00 PM Chase, Adrian, Erasing the Garden City: Interpolation of Architectural Volume from LiDAR Derived DEMs

2:20 PM Prufer, Keith, Amy Thompson, Processes of Urban Development Among the Ancient Maya of Uxbenká and Ix Kuku'il, Southern Belize

2:40 PM Hare, Timothy, Mapping and 3D Modeling at the Household, Neighborhood, and Regional Levels Using UAVs, Photogrammetry, and

LiDAR

3:00 PM Forte, Maurizio, Nevio Danelon, David Johnston, Katherine McCusker, Everett Newton, Vulci3000 Project - A Digital Challenge

3:20 PM Landeschi, Giacomo, Stefan Lindgren, Jesper Blid Kullberg, Henrik Gerding, Alcestis Papadimitriou, Jenny Wallensten, Nicolò Dell'Unto, Angeliki Kossiva, Integrated Digital Methods for Investigating a Hidden Cityscape: The

Case of Ancient Hermion

3:40 PM Coffee Break

4:00 PM Kubicka, Anna, The Metrological Research of Machu Picchu Settlement: Application of a Cosine Quantogram Method for 3D Laser Data

4:20 PM Vadala, Jeffrey, Brian Denham, Virtual Reality as a Tool for Spatial Analysis at Cerro Maya, Belize (Cerros)

4:40 PM Goodwin, Graham, Heather Richards-Rissetto, Modeling Acoustics in Ancient Maya Cities: Moving Towards a Synesthetic Experience Using 3D Simulation

5:00 PM Hanus, Kasper, Understanding Urban Pattern of Silk Road Oasis-Cities Using Archival Aerial Images.

The Creation of Big Data Labs for Archaeology, Heritage, and Global Initiatives

Broader View - Digital Archaeology and the Humanities Room: SCW 460/462

Organizers: Thomas Levy, Michael Decker

2:00 PM	Johnson, Andrew, Steve Savage, Tom Levy, The ASOR Cultural Heritage Initiative-TerraWatchers Collaborative: Crowd-Sourced Monitoring of At Risk Cultural Heritage Sites in the Middle East
3.30 DM	Banasak kukasa Kamila Olaá

- 2:20 PM Banaszek, Łukasz, Kamila Oleś,
 Making Use of the Publicly Available
 Spatial Data and Bringing the Past to
 the People: A Case Study of the
 Pomeranian Wall, Poland
- 2:40 PM McCusker, Katherine, Maurizio Forte,
 David Johnston, Everette Newton,
 Adding the Aerial Multi-Spectral
 Perspective: A Holistic View of Vulci
 through Multi-layered Data Sets
- 3:00 PM Harrison, Laura, Mobilizing a Salvage Archaeology Dataset to Build a 3D Interpretive Visualization
- 3:20 PM Smitheram, Craig, George Pavilidis, Thomas Levy, The Center for Cyber-Archaeology and Sustainability (CCAS): Pedagogy and Student Engagement in At-Risk World Heritage Initiatives
- 3:40 PM Coffee Break
- 4:00 PM Lercari, Nicola, Jeffrey Weekley, Leveraging the UC Merced WAVE and Pacific Research Platform to Create At-Risk Global Cultural Heritage Networks
- 4:20 PM **Frey, Jon**, From Analog to Digital in Archaeological Archives
- 4:40 PM Spring, Adam, Solutions in Photogrammetric Selectivity: Optimizing High Fidelity Meshes from Casual Photography-The Trajan's Forum Project Examples
- 5:00 PM Forte, Maurizio, Nevio Danelon, Julia Liu, The Trajan's Forum Project:
 Dig@lab and the Framework of Big Data.
- 5:20 PM Liss, Brady, Matthew Howland,
 Thomas Levy, Running on Autopilot:
 Testing Google Earth Engine for the
 Automatic Identification of
 Archaeological Features in Satellite
 Imagery

Methods, Tools, Disruption ...: From Information Delivery to Interaction

Broader View - Digital Archaeology and the Humanities Room: SCW 464

Organizer: Ian Johnson

- 2:00 PM Gunn, Scott, Archaeological Field Data Collection Using Ruggedized Android Tablets and Free and Open Source Software
- 2:10 PM Brennan, Matthew, Bernard Frischer, Photomodeling for Rapid Documentation and Survey of Complex Urban Spaces and Archaeology
- 2:20 PM Laugier, Elise, Jesse Casana, Cultural Heritage Monitoring Using Time-Sequenced Satellite Imagery: A Case Study from the Syrian Civil War
- 2:30 PM Casana, Jesse, Jackson Cothren, The CORONA Atlas Project:
 Orthorectification and Analysis of Declassified, Cold War-Era Satellite Imagery
- 2:40 PM Meyer, Dominique, Eric Lo, Thomas Wypych, Dominique Rissolo, Falko Kuester, From Air to Model- A Workflow for Automated UAV Surveying, Data Transmission and Rapid Cloud Distributed Photogrammetry Processing
- 2:50 PM **Tolle, Karsten, David Wigg-Wolf**, Improving Data Quality by Rules – A Numismatic example
- 3:00 PM Discussion

Rip – Model – Learn: Towards the Total Model

Broader View - Digital Archaeology and the Humanities Room: SCW 466/468

Organizers: Carlo Bianchini, Alfonso Ippolito, Carlo Inglese, Luca Senatore

- 2:00 PM Mancini, Matteo Flavio, Leonardo Baglioni, Integrated Surveying Techniques for Analysis of Archaeological Artifact
- 2:20 PM Gallozzi, Arturo, Leonardo Paris, Wissam Wahbeh, 3D Models and Interactive Comunication for Archaeology: The Nymphaeum Ponari in Cassino
- 2:40 PM Carpiceci, Marco, Carlo Inglese,
 Andrea Angelini, Survey,
 Representation, Analysis and
 Cataloguing of the Rock-Hewn
 Architecture in Cappadocia

3:00 PM	3:00 PM Chiavoni, Emanuela, Daniela Esposito, The Archaeological Park of the Porto of Traian: Knowledge, Preservation and Fruition		Non Invasive Methods to Assess Above and Underground Spatial Pattern		
3:20 PM	Piumatti, Paolo, Rosa Tamborrino, 3D Digital Modelling and Digital Urban History: A Methodology for Studying the Processes of Transformation of Nubian			Geophysics/Remote Sensing Room: SCE 217 nizers: Michael Märker, Christian Sommer	
	Temples and Landscape in the Site of	4:00	_	Märker, Michael, Ivano Rellini, Luigi	
3:40 PM	Lake Nasser. Coffee Break	4.00	I IVI	Mucerino, Volker Hochschild, Assessment of Subsurface Neolithic/	
4:00 PM	Pirinu, Andrea, Graphic Analysis of Historic Documents, Architectural			Palaeolithic Sites in the Southern Gargano Area, Apulia, Italy	
	Survey, Applied Geophysics in Support of Archaeological Investigation: The Urban Wall of Cagliari (Sardinia, Italy)	4:20	4:20 PM	Stavilă, Andrei, Bronze Age Tell or Not? Research Methods for Revealing the Internal Habitation Pattern of Alioş –	
4:20 PM	Attenni, Martina, Alfonso Ippolito, Representing Intangible Heritage:			"Valea Alioşu" Site, Timiş County, Romania	
4:40 PM	Alfonso Ippolito, Martina Attenni,		PM	Pihokker, Matthew, Determining Spatial Relationships between Domestic Sites and Cemeteries of the Central Peloponnese	
	Valeria Caniglia, Tradition and Innovation: From Worksite Plans to Digital Models	5:00	5:00 PM	Hegyi, Alexandru, Petru Urdea, 2D and 3D Electrical Resistivity	
5:00 PM Porfiri, Francesca, Carlo Bianchini, The Microcosm of Tiberius's Cave in Sperlonga: Analysis, Investigation and Digital Reconstruction of the Ancient "Sculpture's Theatre"				Tomography Imaging of Archaeological Structures - Case Studies from Romania	
		Geographic Relations in Databases on Cultural Heritage			
5:20 PM	Bianchini, Carlo, Alessandro Viscogliosi, giorgia potestà, Gaia Lisa Tacchi, <i>Tradition and Hi-Tech in the</i>			Networks/Modeling Room: SCW 464	
	Construction of a Total Model: The Complex of Pietrabbondante	Or	ganize	rs: Michael Märker, Volker Hochschild, Espen Uleberg, Mieko Matsumoto	
The Technology Lag: A Panel Discussion Regarding the Use of the Computing Technologies Toolkit For Cultural Resource Compliance Projects		4:00	PM	Perucchetti, Laura, Peter Bray, Mark Pollard, The Use of GIS to Understand the Circulation of Metal in the Prehistoric Alps.	
		4:20 PM		Uleberg, Espen, Mieko Matsumoto, Display matters? Enhanced Visualization for Unique Aspects of	
0.00	Critical Reflections Room: SCE 216	4:40	РМ	Norwegian Stone Age Site Distribution Willmes, Christian, Daniel Becker, Yasa Yener, Olaf Bubenzer, Georg	
Organizers: Brian Seymour, Michael Scafuri, Sarah Kessick, Timothy Dodson				Bareth, Open Science, e-Science and	

5:00 PM

5:20 PM

Discussion

Geospatial Data Management to

Support Research in Archaeology

Märker, Michael, Volker Hochschild, Christian Sommer, How to Integrate and Illustrate Aspects of Landscape Evolution and Human Evolution

4:00 PM Seymour, Brian, Introduction / Roundtable

TUESDAY EVENING

Poster Sessions: 5:40 PM - 7:30 PM Room: SCE House

Posters from The Creation of Big Data Labs for Archaeology, Heritage, and Global Initiatives

Elliott Smith, Rosemary, Carolyn Breeze, Taylor Harman, Arkin Gupta, Franklin Reece, Margie Burton, Thomas Levy, ArchaeoSTOR: A User-Friendly Archaeological Database

Lu, Qin-Qin, Zhengyao Jin, Scientific Database and the Big Data Approach for the Bronze Age of China

Du Vernay, Jeffrey, 3D Mapping and Visualizing the Galerie de Paléontologie et d'Anatomie Comparée at the Muséum National d'Histoire Naturelle, Paris

McLeod, James, Three-Dimensional Documentation and Examination of a Medieval Period Cistern at Alarcos in the Castilla-La Mancha Region of Spain

Howland, Matthew, Developing a Standardized Workflow for Digital Preservation and Analysis of Archaeological Ceramics

Banaszek, Łukasz, Kamila Oleś, Data Hub for Early Medieval Architecture? Crossing the Borders of an Unfriendly Tradition

General Posters

Bergervoet, Michael, Geospatial and Ethnographic Analysis of the Red Wing Stone Cairns

Brenningmeyer, Todd, Documenting Ephemeral Settlements of Modern Greece

Canela Grácia, Joan, Núria Otero Herraiz, Cultural Heritage preservation through Open Data and GIS: A methodological proposal for North-eastern Iberian Peninsula.

Dennis, L. Meghan, Reclaiming "Ethics" in a Post-GamerGate World: Participatory Standards and the Establishment of an Ethical Framework of Practice in Archaeogaming

Harper, Charlie, Jeremy Vause, Batten Down the Hatches! Digitizing and Displaying Finds from the Spanish Plate Fleet Wrecks

Holmes, Rachael, Ashely Green, Accounting for Environmental Factors: Approaches to enhancing horizontal resolution and interpretability in geophysical surveys Jones, Steven, Eileen Ernenwein, Towards A More Efficient Approach To Grave Detection: Experiments Using Microtopography, Ground Penetrating Radar, Magnetometry, And Electromagnetic Induction

Lockhart, Jami, Timothy Mulvihill, Jeffrey Mitchem, A Multiscale Geospatial Analysis of a Protohistoric Mississippian Landscape.

Menzer, Jeremy, Jay Franklin, Geophysical Survey of Mississippian Mound Sites on the Upper Cumberland Plateau, Tennessee

Muccigrosso, John, Creating a Database of Roman Temples

Nicu, Ionut Cristi, Cultural heritage landscape vulnerability using analytical hierarchy process and geographic information systems. An approach to historical maps

Sea, Claiborne, Eileen Ernenwein, Landscape Scale Geophysical Survey of the Singer-Hieronymus Site Complex in Scott County, Kentucky: Determining the Development of Village Infrastructure Using Non-Invasive Techniques

Smith, Tyler, Greg Lewis, Allison Mueller, 3D Scanning and Printing Ancient Greek Vases: From Deep Storage to Rapid Prototyping

Smith, Karen, Jun Zhou, Haoshou Yu, Song Wang, Colin Wilder, SnowVision 1.0: Toward the automatic matching of stamped pottery sherds to carved wooden paddle designs

Tankersley, William, An Approach to Digital Data Collection for Cultural Resource Management

Traviglia, Arianna, Automating detection of landscape patterning: a similarity-based approach

Velandria, Yoly, *Pre-Hispanic agricultural* technologies and water control systems in northwestern Venezuela

Whitmore, Deidre, Seeking Context: Archaeological Practices Surrounding the Reuse of Spatial Information

Wright, Holly, Gabriele Gattiglia, Michael Remmy, Archaeological Automatic Interpretation and Documentation of cEramics (ArchAIDE)

Yang, Yunyun, A Study of the Cultural Development and Landscape Distribution of the Majiayao Culture in Gansu and Qinghai Provinces in China







WEDNESDAY MORNING

Mechanics, Mods and Mashups: Games of the Past for the Future **Designed by Archaeologists**

Education and Dissemination Room: SCE 216

Organizers: Erik Champion, Michael Nitsche

8:30 AM Booker, Emily, "I Don't Want to Set the World on Fire": Ruin Interactions and

Attitudes in Fallout 4

9:00 AM Bryant, Robert, Sandra Blakely, Joanna Mundy, Cole Furrh, Sailing with the Gods: Argonauts and

Samothracians in an Ancient Sea

9:30 AM Eve, Stuart, How Waterloo was Won

10:00 AM Linde, Lennart, Blur the Lines - Games as Tools for Archaeological Research

10:30 AM Coffee Break

10:50 AM Underberg-Goode, Natalie, Arpilleras and Ayni: Roleplaying Reciprocity

11:20 AM Hiriart, Juan, Designing and Using Game Environments as Historical Learning Contexts

11:50 AM Discussion

> **Automation is Here to Stay! The** Hitch-hiker's Guide to Automated **Object Detection and Image Processing in Remote Sensing**

Geophysics/Remote Sensing Room: SCE 217

Organizers: Arianna Traviglia, Dave Cowley

8:30 AM Cowley, Dave, Arianna Traviglia,

Hitching the Right Ride? Concepts and Issues for Developing Automated Object Detection and Image Processing in Remote Sensing Archaeology

8:50 AM Kramer, Iris, Creating a Future for Automation by Targeting Models to their End-Users

Zambanini, Sebastian, Simon 9:10 AM

Brenner, Robert Sablatnig, Adapting to the Problem at Hand: Image Registration and Object Detection for

Automatic WW2 Aerial Photograph

Processina

9:30 AM Green, Ashely, Paul Cheetham,

> Timothy Darvill, Information Systems and Ad Hoc Workflow Models as Viable Applications to Improve the Preexcavation Detection of Characteristic

Human Interments

9:50 AM Ramel, Jean-Yves, Clément Laplaige,

> Xavier Rodier, Shuo Bai, Extraction of Linear Structures from LIDAR Images Using a Machine Learning Approach

10:30 AM Coffee Break

10:50 AM Discussion

General - Data Management and **Textual Analysis**

General Room: SCE 218

8:30 AM Bischoff, Robert, Moving Forward with

Digital Databases: Current Opinions and

Potential Solutions

8:50 AM Schroer, Carla, Mark Mudge, Digital

> Lab Notebook Creation for Computational Photography

9:10 AM Casey, Christian, Digital Demotic:

Opportunities and Challenges

10:30 AM Coffee Break

10:50 AM Gad, Moataz, Yasmin Mohamed,

> Treatment of Lime Stone Colored with Egyptian Blue Pigment Using Different

Techniques of Documentation

11:10 AM Bray, Peter, Mark Pollard, The

> Characterisation Hypothesis for Scientific Metallurgy: Classes of

Structure in Chemical Datasets and their

Visualisation

11:30 AM Sonnemann, Till, Jason Laffoon,

Termeh Shafie, Enhancing Archaeological Material Provenance

Studies by Manipulating Isoscapes

11:50 AM Foreman, Penelope, The Colour Out of Space: Digital Media as Mouthpieces for Material Agency

From Physical to Digital, From Interactive to Immersive: Uses of Three–Dimensional Representation, Mixed Reality, and More in the Sharing and Exploration of Archaeological Data

VR Room: SCE Auditorium

Organizer: Jeffrey Emanuel

8:30 AM	Vurpillot, Damien, Making Virtual
	Reality Real: What Can We Learn by
	Bringing Together Virtual Reality and
	Visual Attention Analysis?

- 8:50 AM Bremer, Thomas, Sebastian Plesch, Kay Kohlmeyer, Susanne Brandhorst, Arie Kai-Browne, Timo Falke, VR:TA -A Virtual Reality Toolset for Archaeologists
- 9:10 AM Hollis, Luke, MorgantinaVR: Cityscale Handheld AR and Cross-Platform VR for Visualizing Georeferenced Datasets as a Part of a Microservices Software Architecture
- 9:30 AM Burns, Bryan, Jordan Tynes, Excavation Progress and Artifact Manipulations in a Virtual Environment
- 9:50 AM Kamash, Zena, Digital Digestion: Roman Food and Digital Objects at Corinium Museum
- 10:10 AM Wescoat, Bonna, Arya Basu, On the Dynamics of Interactive Exploration over Animation as Methods of Experiential Simulation in the Sanctuary of the Great Gods on Samothrace
- 10:30 AM Coffee Break
- 10:50 AM Rudov, Ivan, Combined Method of 3D Model of Archaeological Objects Optimization for a Mobile App.
- 11:10 AM Löwenborg, Daniel, John Ljungkvist, Daniel Westergren, Sebastian Wiberg, Staffan Hagberg, Augmented History A Virtual "Window to the Past"
- 11:30 AM Gonzalez-Perez, Cesar, Martin
 Pereira-Fariña, Chris Reed, Toward an
 Argument Evaluation System on Cultural
 Heritage Based on Anchoring Inference
 Theory
- 11:50 AM Discussion

Women in CAA

Critical Reflections Room: SCW 460/462

Organizers: Katie Simon, Sara Gale, Lisa Fischer

Organiz	ters. Natie Simon, Sara Gale, Lisa Fische
8:30 AM	Simon, Katie, Introduction
8:40 AM	Ernenwein, Eileen, Implicit Gender Bias? What's That?
8:50 AM	Rocks-Macqueen, Doug, Is Equality Enough?
9:00 AM	Wendrich, Willeke , Bringing out the Best: Mentoring Women in Digital Archaeology
9:10 AM	Wallrodt, John , <i>Increasing Academic Approaches to CAA</i>
9:20 AM	Discussion
9:50 AM	Fredrick, David, Collision Detection: Reflections on Gender from Game Space to Other Spaces
10:00 AM	Gonzalez-Tennant, Edward, Cyberfeminist Perspectives on the Future of Digital Archaeology
10:10 AM	Discussion
10:30 AM	Coffee Break
10:50 AM	Sturm, Jennie , <i>Women in Business in the CAA fields</i>
11:00 AM	Lowry, Sarah, Technical Women in Cultural Resource Management: Amplifying the Importance of Non- Traditional Skill Sets in Modern Archaeology
11:10 AM	Simon, Katie , <i>That Was Not OK. Now What?</i>
11:20 AM	Discussion
11:40 AM	Gale, Sara, How to Maintain an A-Game!: The Importance of Continued Education for Women in Technical Fields
11:50 AM	Fischer, Lisa, A "Digital Divide": Working to Close the Gender Gap

Data, Theory, Methods, and Models. Approaching Anthropology and Archaeology through Computational Modeling

12:25 PM Fischer, Lisa, Closing Remarks

12:00 PM Discussion

Networks/Modeling Room: SCW 464

Organizers: Stefani Crabtree, Iza Romanowska, undefined undefined, Philip Verhagen

8:30 AM	Crabtree, Stefani, An Introduction to Modeling	3D Di	gitization of Sculpture	
8:50 AM	Allison, James , Agent-Based Modelling of the Relationships Among Kinship, Residence, and Exchange	3D Acquisition / Object Modeling Room: SCW 466/468		
9:10 AM	•	Organizers: Bernard Frischer, Gabriele Guidi		
9. 10 AW	Weaverdyck, Eli, Military Markets in Moesia Inferior: Using Location Analysis and Comparative Modelling to Identify	8:30 AM	Frischer, Bernard, Digitizing Sculpture: Where We've Been, Where We're Going	
	Market Places on Rome's Lower Danubian Frontier	8:50 AM	Vassallo, Valentina, Nicolò Dell'Unto, Sorin Hermon, A Quantitative Approach	
9:30 AM	Coto-Sarmiento, Maria, Simon Carrignon, Xavier Rubio-Campillo, José Remesal, Identifying Social Learning Mechanisms in the Amphorae Production within Roman Empire		Using 3D Models for a Typo- Technological and Manufacturing Study of Terracotta Statuettes: The Case Study of the Ayia Irini (Cyprus) Small Figurines	
9:50 AM	van Havre, Grégoire, The Dynamics of Brazilian Rock Art Landscape: An Agent-based Modelling Approach to	9:10 AM	Brennan, Matthew , The Prado Muses - Rethinking the Unity of a Statue Group with the Help of 3D Models	
	Theories	9:30 AM	Kubicka, Anna, Aleksandra	
10:10 AM	Riris, Phil, Experiments in Modelling Environmental Impact: A Case Study of Post-Contact Piaroa (Wothuha) Land Use Patterns		Brzozowska, 3D Models of Architecture Remains in Archaeological Context: Visualisation as a Tool in Interdisciplinary Research of Polish Archaeological Mission in Kato Paphos on Cyprus.	
10:30 AM	Coffee Break			
10:50 AM	Kruse, Kristin, Spatial Pressure on Alpine Settlements? An Equation Based Case Study in the Silvretta Massif	9:50 AM	Varner, Eric , Digitizing Ancient Sculpture at the Michael C. Carlos Museum, Emory University	
44 40 414	(Switzerland, Canton of Grisons)	10:10 AM		
11:10 AM	Strategies in Central Asian Nomadic		Practices and Metrological Issues in Massive 3D Digitization of Sculptures	
		10:30 AM	Coffee Break	
		10:50 AM		
11:30 AM	Romanowska, Iza, Hominin Dispersal, Environmental Change and the Evolution of Behavioural Plasticity		Alexis loannakis, Christodoulos Chamzas, Incorporating Texture in the Retrieval Process of 3D Models Exploiting Spatial-Consistency of	
11:50 AM	Hölzchen, Ericson, Christine Hertler,		Texture Maps	
	Modeling Resource-Driven Out of Africa Hypotheses – Potential and Challenges	11:10 AM	Christiaisen, Leif, Seymour: Image- based Rendering Solution for High-	
12:10 PM	Davies, Benjamin, Simon Holdaway, Making Sense of the Surface: Using	44.00.444	resolution, Browser-based 3D Graphics	
40.05.75	Spatial Simulation to Understand Stone Artifact Scatters	11:30 AM	Burns, Bryan, Jordan Tynes, 3D Models for Curatorial Dialogue and Undergraduate Education	
12:30 PM	Barceló, Juan, When All Agents Die: Analyzing the Possible Failures of Agent-Based Models.	11:50 AM	Sherman, William, High-Throughput Computing for Large-Scale Digitization	
	•	12:10 PM	Discussion	

WEDNESDAY AFTERNOON

Computer Applications in Archaeological Pedagogy: Best Practices for Teaching and Learning

Education and Dissemination Room: SCE 216

Organizers: Anna Agbe-Davies, Julia Chyla

2:00 PM Watrall, Ethan, Building Scholars and Communities of Practice in Digital Heritage and Archaeology
 2:20 PM Bollwerk, Elizabeth, Lynsey Bates, Leslie Cooper, Jillian Galle, Lessons

Learned from Teaching and Training with the Digital Archaeological Archive of Comparative Slavery (DAACS)

2:40 PM Lockyear, Kris, Flippin' R

3:00 PM Martin-Rodilla, Patricia, Cesar Gonzalez-Perez, Educational Experiences in Archaeological Information Modelling with the Mind Maps and Object-Oriented Paradigms

3:20 PM Lambers, Karsten, Fulco Scherjon, Iza Romanowska, A Small Private Online Course on 'Modelling and Simulation in Archaeology' at Leiden University

3:40 PM Coffee Break

4:00 PM McMichael, A.L., Jon Frey, Tommy Truong, Eric Martin, Augmenting Art History: AR in the Survey Classroom

4:20 PM **Pikov, Nikita**, Augmented Reality (AR) and Digital Photogrammetry as a Way of Preserving and Popularization of Archeological Collections

4:40 PM Freeman, Mark, Jeanne Moe, Project Archaeology: Assessing Paper and Digital Approaches to Online Learning

5:00 PM Discussion

Differing Perspectives: The Wide World of Geophysical Prospection

Geophysics/Remote Sensing Room: SCE 217

Organizers: Christine Markussen, Petra Schneidhofer

2:00 PM Kalayci, Tuna, Meropi Manataki, Apostolos Sarris, The More the Merrier? Two Conflicting Stances on Multi-Array Sensors

2:20 PM Casana, Jesse, Austin Hill, Elise Laugier, Advancing Methodologies for Archaeological Aerial Thermography 2:40 PM **De Smedt, Philippe**, The Interpretive Potential of Geophysical Landscape Archaeology: An Electromagnetic Perspective.

3:00 PM Herrmann, Jason, What to do with Ambiguous Anomalies?

3:20 PM Ernenwein, Eileen, Jeremy Menzer, 3D Ground Truth: Integrating Above Ground Photogrammetry, Ground Penetrating Radar, and Subsurface Laser Scans of a Medieval Tunnel, Mouriou. France

3:40 PM Coffee Break

4:00 PM Cooper, Lorna, Relocating a Forgotten
Asian Market Garden in Historic Perth
(1833-1936): Using GIS to Integrate and
Interrogate Excavated, Archival and
Geophysical Information

4:20 PM Cannon, Cayla, Eileen Ernenwein, Jay Franklin, In Search of the People Who Lived Here Before: From Historic to Prehistoric Significance at a Tennessee State Historic Site

4:40 PM Miszk, Łukasz, Martina Seifert, Nikola Babucic, Ewdoksia Papuci-Władyka, Old or New? Human Impact and the Mapping of Ancient Nea Paphos

5:00 PM Grap, Rachel, Eileen Ernenwein, Big Geophysics with Small Tools: Looking for the Big Picture One Step at a Time at Tel Shimron

5:20 PM Discussion

General - 3D Modeling

General Room: SCE 218

2:00 PM Johnson, Adam, Shifting Stones and Data Points: Using Terrestrial Laser Scanning to Assess Damage to Monumental Architecture in Hawai'i

2:20 PM Guidi, Gabriele, Laura Micoli, Sara Gonizzi Barsanti, Diachronic 3D Reconstruction of Historical Sites in Urban Context

2:40 PM Cennamo, Gerardo Maria, The Giusso Castle and the Foundation Area of Sicignano degli Alburni (SA): Survey and 3D Modeling for Social and Territorial Valorization Strategies

Visualization as Analysis in Archaeology

Broader View - Digital Archaeology and the Humanities Room: SCW 460/462

Organizers: Neha Gupta, Michael Carter

2:00 PM Dallas, Costis, Curation at the Sensor's Gaze: Connecting Representation and Performance in Archaeological Visualization 2:05 PM Gupta, Neha, Rodolphe Devillers,

Geographic Visualisation as Knowledge Generation in Archaeology

2:10 PM Huggett, Jeremy, Continuous Interactivity in Archaeological Visualisation

2:15 PM Carter, William, Making and Meaning-Making in Virtual Archaeology

2:20 PM Higginbottom, Gail, Vincent Mom, Place: The Physical Embodiment of Collective Information

2:25 PM Denham, Brian, Applied Technological Approaches in Heritage and Heritage Management: The Black Butte River Mapping Project

Kansa, Eric, Neha Gupta, Visualizing 2:30 PM and Navigating Chronology in Large Digital Collections

2:35 PM Triplett, Edward, Emma Buckingham, Recontextualizing Decades-Old Excavation Materials through 3D Visualization

2:40 PM Kubicka, Anna, Aleksandra Brzozowska-Jawornicka, 3D Models of Architecture Remains in Archaeological Context: Visualization as a Tool in Interdisciplinary Research of Polish Archaeological Mission in Kato Paphos on Cyprus.

2:45 PM Kotoula, Eleni, David Robinson, Matthew Baker, Clare Bedford, Devlin Gandy, David Wheatley, James Miles, Jennifer Perry, The Gordian Knot Project: An Integrated Approach for Rock Art Visualization

2:50 PM Pattee, Aaron, Analyzing the Medieval Landscape of the Pfalz—Castles in the Area of Kaiserslautern

2:55 PM Pattee, Aaron, Effie Athanassopoulos, Kami Ahrens, Cole Juckette, Campus Archaeology and 3D Modeling: An Archaeological Collection of Historic Artifacts from the University of Nebraska-Lincoln

3:00 PM Juckette, Cole, Effie Athanassopoulos, Aaron Pattee, Kami Ahrens, Campus Archaeology and Digital Mapping: Urban Space and Commerce in Lincoln Nebraska. 1870-3:05 PM Kulhanek, Karin, Andreas Pastoors, Tracking in 3D 3:10 PM Discussion 3:40 PM Coffee Break 4:00 PM Kulhanek, Karin, Andreas Pastoors, Roundtable

The Ups and Downs of **Archaeological Simulation**

Networks/Modeling Room: SCW 464

Organizers: Iza Romanowska, Juan Barceló

2:00 PM Rocks-Macqueen, Doug, The Long Road Ahead for Simulations in Archaeology

2:20 PM Linde, Lennart, Think Different! - Why "Model Thinking" Shaped the Archaeological Thought Beyond the Hype on ABM

2:40 PM Discussion

2:00 PM

Quality Assurance and Quality Control in Image-Based Modeling

3D Acquisition / Object Modeling Room: SCW 466/468

Organizers: Adam Spring, George Bevan

Sherman, William, Introduction 2:20 PM Bryan, Paul, Structure-from-Motion (SfM) - A Reliable Survey Tool for Archaeology or an Unreliable Black-Box?

2:40 PM Bevan, George, Jason Birch, Some Considerations on Semi-Global Matching for High-Accuracy Heritage Recording Applications

3:00 PM Seguin, Maxime, Training with Free and Open-Source Photogrammetric Softwares: One of the Answers to Rectify the Situation?

3:20 PM Bevan, George, Jones Kristen, An Analytical Stereoplotting Workflow for Archaeological Excavation: Reviving a 20th-Century Photogrammetric Technique for the 21st.

3:40 PM Coffee Break 4:00 PM Meyer, Dominique, Danielle Mercure, Eric Lo, Jamie Hodgkins, Dominique Rissolo, Falko Kuester, Evaluating Photogrammetric Reconstructions of Faunal and Lithic Artifacts Compared to Traditional Microscopic Observation, Structured Light Imaging, Laser Scanning, Magnetic Resonance Imaging and Computerized Tomography Scanning

4:20 PM Kleinkemper, Larry, The Key to Creating a GREAT Model from Laser Scanning and Photogrammetry

4:40 PM Liu, Julia, Adam Spring, From Scan to Sculpture: Ensuring Quality Control in Digital Restoration.

5:00 PM Peters, Caradoc, Using Inscribed Stone Surfaces To Examine Low Cost 3D imaging

Decolonising Digital Archaeology

Critical Reflections Room: SCE 218

Organizers: Andrew Dufton, Jessica Ogden

4:00 PM Sheldrick, Nichole, Accessing
Archaeology: Creating an Open-Access
Heritage Database for the Endangered
Archaeology in the Middle East & North
Africa (EAMENA) Project

4:20 PM Huntsman, Theresa, Eric Kansa,
Context and Community: Accountable,
Open Presentation of Digital
Archaeology

4:40 PM Kamash, Zena, 'Postcard to Palmyra': Exploring Visitor Responses to the Replica of the Triumphal Arch from Palmyra in Trafalgar Square, London 5:00 PM Bianchini, Carlo, Mohammed El Khalili, Nizar Al Adarbeh, Alekos Diacodimitri, Survey, 2D and 3D Modelling of the Roman Nymphaeum in Amman: a Multilateral, Cooperative Research Experience

5:20 PM **Heitman, Carrie**, Decolonizing an Archive of Archives?

Path Modelling and the Materiality of Movement

GIS Room: SCE Auditorium

Organizers: Philip Verhagen, Laure Nuninger, Axel Posluschny

4:00 PM Caswell, Edward, Michelle De-Gruchy, James Edwards, Walking Across
Beach Sand is Hard and Other
Discoveries: First Results of Assessing the Time Cost of Moving through
Various Terrains

4:20 PM Kalayci, Tuna, The Volume of Ancient Movement: A Satellite Remote Sensing Approach

4:40 PM Field, Sean, Least Cost Path Modelling: Computing Functional Correlations in Chacoan Road Systems

5:00 PM Rothenberg, Miriam, Do All Roads Really Lead to Rome? Modelling Mobility in the Ager Veientanus and the Sangro Valley, Italy

5:20 PM Discussion







THURSDAY MORNING

Web-based Infrastructure as a Collaborative Framework across Archaeological Fieldwork, Lab Work, and Analysis

Collaborative Data Management Room: SCF 216

Room: SCE 216 Organizers: Fabrizio Galeazzi, Heather Richards-Rissetto 8:30 AM Johnson, lan, Building Web-Based Integration from Data Model through Tablet Data Collection to Analysis 8:50 AM Jensen, Peter, Semantically Enhanced 3D: Introducing a Web-Based Platform for Spatial Integration of Excavation Documentation 9:10 AM Cuy, Sebastian, Jan Wieners, Daniel de Oliveira, iDAI.Field 2.0 - A Modern & Open Framework for Field Recording 9:30 AM Landeschi, Giacomo, Danilo Marco Campanaro, Nicolò Dell'Unto, A 3D Web-Aided Resource for Pompeian Studies (3D WARPS) 9:50 AM Zerbini, Andrea, Building a Heritage Management Platform for Endangered Archaeology in the Middle East and North Africa 10:10 AM Lang, Matthias, Michael Derntl, Spacialist - A Virtual Research Environment for the Spatial Humanities 10:30 AM Coffee Break 10:50 AM Pouncett, John, Chris Green, Chris Gosden, Mark Pollard, A Tale of Two Projects: The Role of Web-GIS in Collaborative Research 11:10 AM Karenowska, Alexy, What do Web-Based Platforms Mean for the Ambitions of Archaeology? 11:30 AM Wright, Holly, One Size does not Fit All: Reflections on Online Research Infrastructures 11:50 AM Opitz, Rachel, Publishers and Archives as Fieldwork Collaborators

12:10 PM Discussion

3DVR Caveats and Accomplishments

VR Room: SCE 217

Organizer: Willeke Wendrich

8:30 AM	Wendrich, Willeke , 3DVR Caveats and Accomplishments - Introduction
8:50 AM	Elgewely, Eiman, Evaluation and Enhancement of the Virtual Experience: The Case Study of the "Reviving Karanis in 3D" Project
9:10 AM	Mezzano, Michela, Noemi Mafrici, Saving the Nubian Temples: The Study of the History through Digital Tools
9:30 AM	Champion, Erik, PublicVR and its Relevance to 3DVR and Virtual Heritage
9:50 AM	Payne, Angie, Vance Green, Fred Limp, History Erased and History Recovered: (Re)Creating the Rohwer Japanese Interment Camp
10:10 AM	Wolter, Thomas , <i>Photogrammetric</i> Feature Documentation and Cave Modelling
10:30 AM	Coffee Break
10:50 AM	Vurpillot, Damien , Exploring Massive Point Clouds: How to Make the Most Out of Available Digital Material
11:10 AM	Kuester, Falko, Vid Petrovic, Giga- Point Rendering for 3D VR
11:30 AM	Follett, Forrest, Kyle Urquhart, A 3D Visualization of Ceramic Materials form Gabii, Italy
11.50 AM	Discussion

Mobile GIS and Field Survey - Current Possibilities, Future Needs

GIS Room: SCE Auditorium

Organizers: Nazarij Buławka, Julia Chyla

8:30 AM Knoop, Peter, Best Practices for Mobile GIS and Information Technology in the Field

8:50 AM	Hill, Austin , Low Cost, High Accuracy Drone Survey Methods	11:30 AM	Johnson, Phyllis, How Can Something so Small Cost so Much? Cost- and	
9:10 AM	Chyla, Julia, Miłosz Giersz, Wiesław	44.40.414	Time-Efficiency in Microartifact Analysis	
	Więckowski, Patrycja Prządka-Giersz, Roberto Pimentel-Nita, One Step	11:40 AM	Eriksen, Kristin , 3D-models in Archaeology	
9:30 AM	Further beyond Field Survey	11:50 AM	Romanowska, Iza, Everything Wrong	
9.30 AIVI	Miszk, Łukasz, Wojciech Ostrowski, Weronika Winiarska, Urban sprawl vs.	40-00 DM	with Archaeological Models	
	Archaeological Site: A View from Paphos.	12:00 PM	Cooper, Catriona, Everything Wrong with Acoustical Modelling	
9:50 AM	Pethen, Hannah, Accessing the	12:10 PM	Discussion	
	Inaccessible: Detailed 'Off-Site' Archaeological Survey using Satellite			
	Imagery and GIS at the Hatnub	Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference		
	Travertine Quarries, Egypt			
10:10 AM	Buławka, Nazarij, Ancient Landscapes			
and Present-day Agriculture – On the Example of Tejen River (Turkmenistan)			Networks/Modeling Room: SCW 464	
F		Organizers: Tom Brughmans, Matt Peeples		
Every	thing wrong with	8:30 AM	Blair, Elliot, Social Networks of Mission	
Critical Reflections Room: SCW 460/462			Santa Catalina de Guale: Comparing and Contrasting Unimodal and Bimodal Approaches	
Organizers: Doug Rocks-Macqueen, Stefani Crabtree, Philip Riris		8:50 AM	Upton, Andrew, Frontier Networks:	
8:30 AM	Dennis, L. Meghan, Ethics? Ethics? Anyone?		Cultural Transmission and Multiple Relations at the Intersection of Mississippian and Oneota Worlds	
8:40 AM	Crabtree, Stefani, Communicating Archaeological Research to the Press and the Public	9:10 AM	Munson, Jessica, Viviana Amati, Habiba Habiba, Jonathan Scholnick, Matthew Looper, Yuriy Polyukhovych,	

		Room: SCW 464			
Every	Everything wrong with Critical Reflections Room: SCW 460/462		Organizers: Tom Brughmans, Matt Peeples		
			Blair, Elliot, Social Networks of Mission Santa Catalina de Guale: Comparing and Contrasting Unimodal and Bimodal Approaches		
Organize	rs: Doug Rocks-Macqueen, Stefani Crabtree, Philip Riris	8:50 AM	Upton, Andrew, Frontier Networks:		
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8:40 AM	Crabtree, Stefani , Communicating Archaeological Research to the Press and the Public	9:10 AM	Munson, Jessica, Viviana Amati, Habiba Habiba, Jonathan Scholnick, Matthew Looper, Yuriy Polyukhovych		
8:50 AM	Rocks-Macqueen, Doug, F*ck Public Archaeology		Martha Macri, Diffusion Networks and the Transmission of Dynastic Rituals in Classic Maya Society		
9:00 AM	Huggett, Jeremy, Everything Wrong With Digital Archaeology	9:30 AM	Golitko, Mark, Historical Contingency in Network Data: Examples from Museum		
9:10 AM	Gruber, Ethan , Challenges in Analysing Sensitive or Uncertain Data in a		Collections Research		
0.20 AM	Semantic Web Environment	9:50 AM	van Havre, Grégoire, Networks as a Theoretical Framework for Rock Art		
9:20 AM	Graham, Shawn, Everything Wrong with Bots: On Algorithmic Madness	10:10 AM	Studies in Northeast Brazil		
9:30 AM	Riris, Phil, "Twitter is Actually Stupid" - @fart	TO. TO AIVI	Analysis of Ancient Families: Exploring the Effects of Known Unknowns using		
9:40 AM	Layt, John , Open Source: You're Doing it all Wrong		Phenotypic Data from Documented Collections of Human Skeletal Remains		
9:50 AM	Discussion	10:30 AM	Coffee Break		
10:30 AM		10:50 AM	Crabtree, Stefani , Analyzing Trophic Networks among the Ancestral Pueblo		
10:50 AM	Newhard, James, Turning the Ship without Rocking the Boat: Establishing Archaeological GIS within an Undergraduate Experience	11:10 AM	Groenhuijzen, Mark, Philip Verhagen , Continuity and Discontinuity in Transport Networks of the Dutch Limes Zone		
11:00 AM	Brughmans, Tom, Everything Wrong with Exploratory Network Analysis of Archaeological Similarity Networks	11:30 AM	Prignano, Luce, Sergi Lozano, Ignacio Morer, Francesca Fulminante, Comparing Network Models for the Evolution of Terrestrial Connections in		
11:10 AM	Walthew, Jessica , The Aura as Metadata, The Aura of Metadata		Central Italy (950–500 BC ca)		
11:20 AM	Opitz, Rachel, How We Measure Shape	11:50 AM	Brandes, Ulrik, Tom Brughmans, New Methods for Visibility Networks in Landscape Archaeology		

Close Range 3D Data Acquisition, Processing, Querying and Presentation in Cultural Heritage

3D Acquisition / Object Modeling Room: SCW 466/468

Organizers: Dirk Rieke-Zapp, Vera Moitinho de Almeida, Diego Jiménez-Badillo

8:30 AM Kampel, Martin, Juraj Sarkisjan, Feasibility Study of Consumer Electronic Scanning Devices for Pottery Documentation

8:50 AM Filippucci, Marco, Fabio Bianconi, Sofia Catalucci, Gianluca Rossi, Drawing, Survey, Measure to Analyzing the Reliability of Photomodelling for Cultural Heritage

9:10 AM Kristensen, Steinar, Magne Samdal,
One Stone, Two Men, Three Methods:
Different Methods – Different Data?
Rockart Analysis Testing RTI,
Photogrammetry and Laserscan

9:30 AM Krohn, Anna, Miriam Clinton, Ian Roy, One Size Does Not Fit All: A Comparison of 3D Data Capture

9:50 AM Noble, Tommy, Neffra Matthews, Good Photogrammetry, Good Data, Good Science

10:10 AM Discussion

10:30 AM Coffee Break

10:50 AM Rossi, Maria Laura, Carlo Inglese, Antonio Pizzo, Leonardo Paris, Geometry as Matrix of Construction of Roman Stone Bridges. The Augustus Bridge in Narni. 11:10 AM Scafuri, Michael, The Integration of Multiple 3D Documentation Methodologies in the Modeling and Analysis of an American Civil War Submarine.

11:30 AM Mudge, Mark, Carla Schroer, Challenges and Insights from the Photogrammetric Capture of a Large-Scale Diego Rivera Fresco

11:50 AM **Johnson, Tyler**, 3D User Interfaces at the Nexus of Technical Processing and Creative Design in Digital Archaeology

12:10 PM Kai-Browne, Arie, Thomas Bremer, Kay Kohlmeyer, Julia Gonnella, Sebastian Plesch, Susanne Brandhorst, Contextualizing Cultural Heritage – The Cupola of the Torres de las Damas in the Alhambra

Contributions to Settlement Theory? Archaeological Location Analysis and Modelling

GIS Room: SCE Auditorium

Organizer: Kenneth Kvamme

10:50 AM Smith, Karl, Locations in Experience:

Visibility, Seafaring, and the Placement
of Pembrokeshire's Iron Age Coastal
Promontory Forts

11:10 AM Negre, Joan, A Geographically Based Ripley's Function to Assess Settlement Patterning

11:30 AM Zipser, Jan, Possible Strategy of Land
Use by the Przeworsk Culture People in
Widawa Basin (South-Western Poland)
and the Probable Settlement Processes

11:50 AM Micle, Dorel, Landscape and Economics: A GIS Location Analysis of Middle Age Water Mills from Banat Region (Romania)

12:10 PM Discussion

THURSDAY AFTERNOON

Corpus of Analysis in the Research on Ancient Eastern Mediterranean and Western Asia: Encoding, Information Collection, Digital Collaboration, and Investigating Strategies

Collaborative Data Management Room: SCE 216

Organizers: Vanessa Juloux, Alessandro di Ludovico

2:00 PM **Di Ludovico, Alessandro**, Data Description and Integrated Study of Ancient Near Eastern Works of Art: The Potential of Cylinder Seals

2:20 PM Ramazzotti, Marco, Landscape
Archaeology and Artificial Intelligence:
The Neural Hypersurface of the
Mesopotamian Urban Revolution

2:40 PM **Prosser, Miller**, Digital Philology in the Ras Shamra Tablet Inventory Project: Text Curation through Computational Intelligence

3:00 PM Eraslan, Doğu, Epigraphic
Interoperability in/of Encoded Ancient
Texts: Some Principals and Deliverables
at the Current State of our Encoding
Schemes Based on an Encoding of
Quadrilingual Vase of Darius I and
Some Prospects for the Future

3:20 PM Pagé-Perron, Émilie, Terhi Nurmikko-Fuller, Vanessa Juloux, Enhancing Collaboration between Digital Assyriology Projects Through Open Access Practices

3D Technologies Applied to Music and Sound

VR Room: SCE 217

Organizers: Bernard Frischer, Jared Katz

2:00 PM Till, Rupert, Integrating Accurate
Interactive Acoustics, Music and
Soundscapes into Interactive 3D Models
of Archaeological Sites and Landscapes

2:20 PM Kolar, Miriam, José Cruzado Coronel, Auralizing Ancient Spaces: Sonic Re-Presentation from Architectural Models, In-Situ Measurements, and Experimental Analogues

2:40 PM Katz, Jared, 3D Maya Music: Use of 3D Models for the Creation of Typologies and for Public Outreach

3:00 PM Puglisi, Julia, Acoustics of the South Theatre at Hadrian's Villa: A Preliminary Study using I-Simpa 3:20 PM Kimber. Andres. Sound and Vision of Cup-marked Stones in Rebala Heritage Reserve. Estonia 3:40 PM Coffee Break 4:00 PM Koller, Jared. Multi-Sensory Landscape Analysis of Spanish Mission Building Practices in the Philippines 4:20 PM Cooper, Catriona, Listening to the Commons: Acoustically Modelling the Pre-1834 House of Commons, Westminster

4:40 PM Discussion

Contributions to Settlement Theory? Archaeological Location Analysis and Modelling

GIS Room: SCE Auditorium

Organizer: Kenneth Kvamme

2:00 PM **Tsonev, Tsoni**, Complexity of Mesolithic Settlements in Northeastern Bulgaria

2:20 PM Higginbottom, Gail, Roger Clay, Human Scale and its Impact on Location Modelling

2:40 PM Whitley, Thomas, Blurring the Lines Between Prediction and Interpretation: Some Thoughts on the Contributions of Energetics, Mobility, and 3D Models to Settlement Theory.

3:00 PM Shaffer, Derek, Timothy Murtha, Charles Golden, Bruce Cook, Elijah Hermitt, Sites, Landscapes, and LiDAR in the Maya Lowlands: Leveraging High Resolution Regional LiDAR for Improved Predictive Models.

3:20 PM Hobbs, Elizabeth, Michael Bergervoet, Designing Locational Models to Test Settlement Theory

4:00 PM Discussion

4:20 PM Verhagen, Philip, Antonin Nüsslein, Laure Nuninger, To Boldly Go Where No One Has Gone Before: Integrating Socio-cultural, Environmental and Temporal Factors in Site Location Analysis and Predictive Modelling

4:40 PM Kvamme, Kenneth, The Dimensions of Settlement Choice

5:00 PM Cuthbertson, Patrick, A Landscape-Based Approach Assessing Hominin Occupation and Dispersal in Lower-Middle Pleistocene Central Asia

5:20 PM Discussion

Structural Analysis for Cultural Heritage

3D Acquisition / Object Modeling Room: SCW 460/462

Organizers: Falko Kuester, Michael Hess, Dominique

Organizei	Rissolo
2:00 PM	Ippolito, Alfonso, Carlo Inglese, Martina Attenni, Valeria Caniglia, Quantity vs Quality: Advantages and Disadvantages of Imaged Based Modelling
2:20 PM	Guidi, Gabriele, Sara Gonizzi Barsanti, A Novel Pipeline for the Structural Analysis of 3D Digitized Cultural Heritage
2:40 PM	Napolitano, Rebecca, Tim Michiels, Branko Glisic, Digital Workflow for Structural Analysis of Discontinuous Media
3:00 PM	Hess, Michael, Non-Destructive Techniques for the Structural Health Assessment of Historic Buildings
3:20 PM	Wittich, Christine, Tara Hutchinson, Seismic Response of Geologic and Heritage Structures: Geometry Acquisition, Numerical Modeling, and Probabilistic Interpretation
3:40 PM	Coffee Break
4:00 PM	Wood, Richard, M. Ebrahim Mohammadi, Lidar Damage Evaluation of Historic Temple after the 2015 Gorkha Earthquake
4:20 PM	Schubert, Lutz, Keith Jeffery, Interpreting Shell Middens through Physics Simulation
4:40 PM	Miles, James, The Potential of Structural Analysis in Archaeological Simulation and Interpretation: A Case Study of Medieval Winchester Cathedral Close
5:00 PM	Gil, Ana , A Methodology for Architectural Heritage's Digital Reconstructions: Lisbon Religious Houses as Case Study
5:20 PM	Meyer, Dominique, Gianmarco Guerra, Eric Lo, Michael Hess, Davide Forcellini, Falko Kuester, Comparing Measured Frequency Responses of the Third Tower of San Marino to Simulation Derived Frequency Responses from a Photogrammetry and LIDAR Acquired 3D Model
5:40 PM	Rissolo, Dominique, Michael Hess, Jose Huchim Herrera, Eric Lo, Vid Petrovic, Dominique Meyer, Falko

Kuester, Fabio Amador, Preliminary

Structural Assessment of a Unique

Maya Building Platform at Oxkintok,

Yucatan

Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference

Networks/Modeling Room: SCW 464

Organizare:	Tom	Brughmans	Matt Peeples
Organizers:	IOM	Bruanmans.	Matt Peebles

Organizers: Tom Brughmans, Matt Peeples		
2:00 PM	Rivals, Cécile , The Modeling of Urban Spatial Dynamics in Long Time Spans	
2:20 PM	Habiba, Habiba, Viviana Amati, Jessica Munson, Jonathan Scholnick, Yuriy Polyukhovych, Matthew Looper, Martha Macri, Inferring Influence Networks of Grapheme Innovation in Classic Maya Hieroglyphic Writing	
2:40 PM	Gjesfjeld, Erik , Centrality Measurements and their Application to Archaeological Data	
3:00 PM	Peeples, Matthew, John Roberts, Bootstrap Methods for Assessing Variability in Archaeological Networks	
3:20 PM	Cardinal, James, Unscrambling the Egg: Quantitative, Assemblage-Based Component Consociation Methods for Densely Mixed or Disturbed Contexts	
3:40 PM	Coffee Break	
4:00 PM	Collins-Elliott, Stephen, Accounting for Sample Size: Measuring Cultural Distinction through Monte Carlo Approximations of Hellinger Distances	
4:20 PM	Gauthier, Nicolas, Assessing the Impact of Parametric Uncertainty in a Simple Model of a Social-Ecological Network	
4:40 PM	Gravel-Miguel, Claudine, Using an ABM to Evaluate the Impact of Missing Links on our Interpretation of Social	

Close Range 3D Data Acquisition, Processing, Querying and **Presentation in Cultural Heritage**

Networks

Discussion

5:00 PM

3D Acquisition / Object Modeling Room: SCW 466/468

Organizers: Dirk Rieke-Zapp, Vera Moitinho de Almeida, Diego Jiménez-Badillo

- 2:00 PM Rieke-Zapp, Dirk, Quantitative Analysis Based on 3D data - Examples
- 2:20 PM Pakhunov, Alexander, Ekaterina Devlet, Alexander Popov, How Can We Trace Translocated Boulders with Petroglyphs at the Riverbank?
- 2:40 PM McKee, Arlo, A Glimpse at Site Formation Processes from 3D Laser Scanning Ceramic Sherds in East Texas

3:00 PM	Porter, Samantha, Morgan Roussel, Marie Soressi, A Comparative Analysis of Châtelperronian and Protoaurignacian Blade Core Technology Using Data	4:00 PM	Athanassopoulos, Effie, Kim Shelton, Archaeological Practice and 3D Modeling: A Medieval Ceramic Assemblage from Nemea, Greece
3:20 PM	Derived from 3D Models Murray, Michael, Practical Applications of Underwater Laser Scanning in Maritime Archaeology Compared to	4:20 PM	Isaksen, Leif, Rainer Simon, Elton Barker, Valeria Vitale, Rebecca Kahn, Supporting Community Annotation with Recogito 2
	Micro-Bathymetry Sonar and Photogrammetry	4:40 PM	Rabinowitz, Adam, Ryan Shaw, Patrick Golden, Elijah Fleming,
3:40 PM	Coffee Break	Lorraine Haricombe, In Search of	
4:00 PM	Jiménez-Badillo, Diego, Salvador		Common Ground: Time, Tradition, and Temporal Reconciliation in PeriodO2
	Ruíz-Correa, Mario Canul-Ku, Rogelio Hasimoto-Beltrán, Application of a 3D Morphing Technique to Analyze the Style of Archaeological Models	5:00 PM	Nathalie Kallas, Florian Thiery, Jan Wieners, Analyzing Reasons for
4:20 PM	Hanes, Laurence, Tim Collins, Sandra		Different Datings of Periods using the ChronOntology Time Gazetteer
	Woolley , Classifying the Surfaces of Virtual Cuneiform Tablet Fragments	5:20 PM	Kondo, Yasuhisa, Akira Saito, Nozomi
4:40 PM	Mara, Hubert, Revealing Degraded Script in High Resolution 3D Measurement Data with GigaMesh		Mizota, Tomoko Koyama, Synergistic Collaboration between Data Visualization Experts and Historians in Developing a Geodatabase of Forced
5:00 PM	Discussion		Resettlement in the Colonial Andes
		5:40 PM	Discussion

Exploring the Symbiotic Relationships of Archaeology and Spatial Humanities

Broader View - Digital Archaeology and the Humanities Room: SCE 216

Organizers: Armin Volkmann, Heather Richards-Rissetto