Shallow Pasts, Endless Horizons

Sustainability & Archaeology

48TH Annual Chacmool Archaeology Conference

University of Calgary

November 11-14, 2015
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Conference Committee Members

Conference Chairs
Robert Bird and Julien Favreau

Faculty Advisors
Dr. Charles Mather and Dr. Geoffrey McCafferty

Graduate Advisors
Adam Benfer and Robert Patalano

Department Volunteers
Adrien Caddick and Tracy Wyman

Venue Coordinator
Ana Castro

Fundraising Coordinator
Patrick Querin

Volunteer Coordinator
Scott Graham

Conference Program Design
Julien Favreau

Logo Design
Alexa Lacroix

Webmaster
Scott Graham

Chacmool Archaeological Association
President- Scott Graham
Vice President- Mikaela Radford
Social Coordinator- Lorraine Jewan
Treasurer- Holly Fleming
Letter of Welcome


This year’s conference is hosting a diverse set contributions spanning from sustainable methods, to the CRM industry, to heritage management, to past ritual practices, to the digital age of archaeology, and everything in between. It is our hope that this conference will provoke discussion and ideas that all attendees can take back to their respected positions to help promote sustainable archaeology in all its practices.

On behalf of everyone from the planning committee, we would like to thank all presenters, plenaries, and our keynote speaker for taking the time out of their busy lives to make this conference what it is! We truly appreciate your support and participation.

Thank you to everyone on the planning committee and our volunteers who worked hard behind the scenes, know that we couldn’t have done it without you!

A special thanks goes out to our faculty advisors Dr. Charles Mather and Dr. Geoffrey McCafferty for their indispensable knowledge and wisdom. Also, a big thank you to our graduate advisors Adam Benfer and Robert Patalano who helped in a variety ways. A big thank you goes out to all our sponsors whose donations made a big difference.

We’re looking forward to seeing you all at the conference and we hope everyone enjoys their time in Calgary.
Ps: Keep warm!

Sincerely,

Robert Bird and Julien Favreau
Chacmool Conference Chairs
Information

Registration

- The registration desk will be located at the entrance of the Rozsa Centre.
  - Those who have not already registered online need to stop by the registration desk to pay and pick up their name tags. Please note that the registration desk will only accept Canadian funds and Visa.
  - There is an ATM machine inside Rozsa Centre.
- Attendees who have already paid for registration via PayPal will need to stop by the registration desk to pick up their printed name tags.
- On Wednesday November 11th from 6-9pm, conference presenters and attendees will be able to register at our Department Reception being held on the 8th floor of the Earth Sciences building on campus. We recommend registering at this event rather than the morning of the conference.

Presentations

- Presenters will be allocated 15 minutes for their talk followed by an extra 5 minutes to allow for questions.
- In every room, there will be a PC computer with a USB port. We ask that every presenter loads his or her presentation on the computer before the session commences.
  - Mac users need to save their PowerPoint presentations in a PC compatible format. It is recommended that you bring a PDF version of your presentation if any technical glitches are encountered.
- Session chairs will introduce each speaker before their presentations and are required to follow as closely as possible the planned schedule. We ask that presenters please respect the time limits allowed for their presentations.

Coffee Breaks and Lunch

- There will two coffee breaks over the course of the day. Coffee, tea, and snacks will be provided.
- Lunch is not provided. Conference attendees can purchase food at the MacEwan Hall lunch court.

Social Media

- Follow us on Twitter to receive live updates during the conference:
  - Chacmool Archaeology@ChacmoolARKY
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## Schedule

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Conference Banquet

- The Chacmool conference committee invites you to attend the conference Banquet on Saturday November 14th
  - Location: MacEwan Hall Ballroom
  - Time: 6:00-9:00pm (Doors open at 6pm, Dinner served at 6:30pm)
  - 7:20 – 7:30pm: Introductory speech by Peter Dawson (University of Calgary)
  - 7:30 – 8:30pm: Keynote speech by Neal Ferris (University of Western Ontario)
  - Price: $50 per ticket (To purchase a ticket, email us at: 2015chacmool@gmail.com)
  - Buffet style food. The menu will be available online at: https://antharky.ucalgary.ca/chacmool2015/
  - Our 50/50 prize winner will be announced at the Banquet

Thursday Pub Night

- On Thursday November 12th, join us for some drinks at Kilkenny’s Pub (see location on p. 37)
- Special discount available to all Conference attendees

ANARKY Department Collections Tours

The Department of Anthropology and Archaeology at the University of Calgary houses several archaeological and ethnographical museum collections in teaching/research laboratories, most of which has been collected by members of the department or through long-term loan from the Glenbow Museum in Calgary. Items in the collection include ceramics, lithics, faunal remains, and bioanthropology casts which originate from near and far. These collections are actively utilized for hands-on learning experiences in various courses and are the subjects of several honors theses and numerous on-going research projects.

All Chacmool Conference attendees are invited to participate in one of two organized tours of these collections with our Curatorial Technician.

- 1st Tour: Wednesday, November 11 at 6:00pm meeting in Earth Sciences 859 (during the registration event)
- 2nd Tour: Friday, November 13 at 5:00pm meeting in the Rozsa Centre in front of the registration tables
PARTICIPANTS NEEDED FOR A STUDY OF WOMEN ARCHAEOLOGISTS IN CANADA

DID YOU KNOW:

In Norway between 2012-2014, 75% of leadership positions in private sector archaeology were held by men? (Lazar et al. 2014)

In the USA, although women are being increasingly equally represented in academia, they are more likely to hold non-tenure track positions? (Zeder 1994)

*****WHAT’S THE SITUATION IN CANADA?*****

I am looking for volunteers to take part in a study of women archaeologists working in Canada. Your participation would involve 1 interview session about ~15 minutes long.

For more information about this study, or to volunteer for this study, please contact:

Catherine Jalbert, PhD Candidate
Department of Archaeology
832-375-9552 or
Email: catherine.jalbert@mun.ca

The academic supervisors for this project are Dr. Lisa Rankin and Dr. Meghan Burchell of Archaeology, Memorial University. They can be reached at lrarkin@mun.ca or mburchell@mun.ca or by telephone (Dr. Burchell: 1-709-864-8865/ Dr. Rankin: 1-709-864-8192).

The proposal for this research has been reviewed by the Interdisciplinary Committee on Ethics in Human Research (ICEHR) and found to be in compliance with Memorial University’s ethics policy. If you have ethical concerns about the research (Such as the way you have been treated or your rights as a participant), you may contact the Chairperson of the ICEHR at icehr@mun.ca, or by telephone at 1-709-864-2861.
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
48th Annual Chacmool Conference

Thursday November 12th

Plenary Session
Session Chairs: Robert Bird¹ and Julien Favreau¹ (¹University of Calgary)
Location: Husky Oil Great Hall

9:00 – 9:40am Patricia A. McAnany (Kenan Eminent Professor, University of North Carolina, Chapel Hill)
Maya Cultural Heritage: How Archaeologists and Indigenous Peoples Create and Conserve the Past

Abstract: Indigenous Maya peoples of southern México and northern Central America have diverse perspectives on the much valorized but distant past of their ancestors. While archaeologists traditionally draw upon the practices of contemporary peoples to interpret the past, the subjectivities of contemporary ethno-linguistic peoples and their relationship to the past is ground tread less frequently by archaeologists. Heritage research and participatory programs collaboratively initiated by InHerit—a University of North Carolina program—are situated at the intersection of cultural heritage and local community. These grass-root efforts have been located in southern México, Guatemala, Belize, and western Honduras and were implemented over the past eight years. This initiative emphasizes participatory research methods and a style of pedagogy that de-centers the production of archaeological knowledge. The cultivation of a closer relationship between local communities and the practice of archaeology (as well as the objects of archaeological study) is central to this effort. A compelling need for this kind of local approach is augmented by the ineffectiveness of top-down heritage conservation initiatives. Initial results suggest that dialogue encouraged by heritage programs is building new epistemic communities of archaeological practice in which collaboration between indigenous Maya peoples and archaeologists can result not only in the creation of the past but also its conservation.

9:40 - 10:20am Arlene Rosen (University of Texas at Austin)
‘River of Sorrow’: Sustainability and Uncertainty of Agricultural Systems from the Neolithic to the Han Empire, Northern China

Abstract: Northern China was central to the rise of complex societies from early Neolithic through to early states and the Han Empire. These cultural developments brought with them rising populations and increasing intensity of land-use. Some of the land-use practices utilized throughout this history were remarkably sustainable in spite of episodes of deforestation and soil erosion, others had devastating effects on landscapes and human populations. Geoarchaeological research from the middle reaches of the Yellow River and eastward to the Si River drainage of Shandong Province provides an important record of these episodes and events. Mid-Holocene Neolithic deforestation, soil erosion, and increased alluviation led to a build-up of moist floodplains allowing Neolithic farmers to intensify their production with sustainable paddy farming. However, later period Bronze and Iron Age land-use practices led to unsustainable systems and devastating floods during the period of the Han Empire.
10:20 – 10:40am  Coffee Break

10:40 – 11:20am  Elisabeth Hildebrand (Stony Brook University)

*Monuments to Dilemmas in Sustainability: Pillar Sites around Lake Turkana 5000 bp and Today*

**Abstract:** Megalithic pillar sites built in NW Kenya 5000 years ago required cooperation by large groups of people in a short period as they negotiated environmental and social challenges in a frontier setting. These visually stunning examples of monumental architecture by mobile herders raise diverse questions about sustainability in the archaeological record. How sustainable were herding practices that spread through the Turkana Basin into eastern Africa? How did pillar sites help people cope with dilemmas in their new environment and social scene? Why was use of the pillar sites – and accompanying material culture like Nderit pottery – so short-lived? What happened to the descendants of the pillar site builders? Attempting to answer these questions generates metaphors for quandaries in NW Kenya today catalyzed by interaction with new technologies, labor opportunities, and environmental changes. Even as NW Kenyans anticipate serious lake level/water table drops due to damming of the Omo and its tributaries in Ethiopia, the discovery of oil in Turkana is providing new opportunities for wage labor that are transforming economic and social roles. Because Kenya’s new constitution has devolved substantial power and financial resources from the national to the county level, local officials look forward to establishing Turkana as a tourist destination. Amidst this push for cultural and natural heritage development, pillar sites are showing obvious recent damage due to both natural and human impacts. As archaeologists, officials, and local community members together try to devise workable conservation plans, the pillar sites stand as a profound metaphor to dilemmas in sustainability across five millennia of human endeavor.
Thursday November 12th

The ANARKY Session: The (Sustainable) Archaeology of Sustainability
Session Chair: Adam Benfer (University of Calgary)
Location: Evans Room

1:00 – 1:20pm  John M. McCullough (University of Utah), Kathleen M. Heath (Indiana State University), and Christine S. McCullough (Independent)
*The Failure of Success in Colonial New England: The Unsustainability of Unfettered Reproduction in a Finite Environment*

1:20 – 1:40pm  Benjamin Vis (University of Kent)
*Distinguishing Big Open Spaces in Chunchucmil*

1:40 – 2:00pm  Guy Duke (University of Toronto)
*The Taste of Change is Oddly Familiar: Culinary Differences and Similarities at two Late Moche sites in the Jequetpeque Valley*

2:00 – 2:20pm  Tamara Cottle (University of Calgary)
*Guerilla Garbology as a Critical Anthropological Method: Convenience Food Waste in a Calgary Public School*

2:20 – 2:40pm  Erin Ray (University of California Merced), and Holley Moyes (University of California Merced)
*All in Good Time: Shifting Methodologies Toward a More Sustainable Archaeology*

2:40 – 3:00pm  Coffee Break

3:00 – 3:20pm  Paulo H. Medina (Boston University)
*Archaeology, Tourism, and Nationalism in Guatemala*

3:20 – 3:40pm  Juan José García-Granero1, Francesc C. Conesa2, Andrea L. Balbo3, Carla Lancelotti2, and Marco Madella1, 2, and P. Ajithprasad4 (1Spanish National Research Council), (2Universitat Pompeu Fabra), (3University of Hamburg), (4University of Baroda)
*Long-Term Sustainable Land-Use Strategies in Monsoonal Semi-Arid Regions: The Case of North Gujarat (India)*
Thursday November 12th

Student Session
Session Chair: Laura Tucker (University of Calgary)
Location: Scotiabank Milling Area

1:00 – 1:20pm
Lauren Rennie (University of Calgary)
*A Preliminary Study of Charcoal Identification from Nicaragua*

1:20 – 1:40pm
Kathleen Forward (St. Francis Xavier University)
*Investigating Household Activities at Site 174 and the Nature of Social Hierarchy in the Parita Valley, Central Region of Panama*

1:40 – 2:00pm
Meghann Livingston (St. Francis Xavier University)
*Mortuary Patterns and Attitudes Towards Death and Dying in Nova Scotia: An Analysis of the Historic Laurel Hill Cemetery, Pictou*

2:00 – 2:20pm
Patrick Lee¹, Julio Mercader¹, Makarius Itambu¹, Robert Patalano¹, Petroula Christakis¹, Laura Tucker¹, Julien Favreau¹, and Sambeta Ikayo²
(¹University of Calgary), (²University of Dar Es Salaam and Ngorongoro Conservation Area Authority)
*The Failure of Stone Age Science to Attract African Scholars*

2:20 – 2:40pm
Petroula Christakis¹, Julio Mercader¹, Robert Patalano¹, Makarius Itambu¹, Laura Tucker¹, Julien Favreau¹, Patrick Lee¹, and Robert Bird¹
(¹University of Calgary)
*New Digging Protocols and Advanced Contamination Controls at Olduvai Gorge*

2:40 – 3:00pm
Coffee Break

3:00 – 3:20pm
Holly Fleming (University of Calgary), and Neha Gupta (Memorial University of Newfoundland)
*Using Geographic Information Systems to Analyze and Visualize the Temporal Aspect in Archaeological Data*
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
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Friday November 13th

Ethnoarchaeology, Heritage Management, and Community Outreach
Session Chairs: Tatyanna Ewald (University of Calgary)
Location: CIBC Hub Room

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<th>Time</th>
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<td>9:00 – 9:20am</td>
<td>Sarah Howard (University of Birmingham)</td>
<td>The Discourses of Sustainability in Archaeological Heritage Management</td>
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<tr>
<td>9:20 – 9:40am</td>
<td>Camina Weasel Moccasin (Simon Fraser University)</td>
<td>Continuing Writings on Stone</td>
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<td>9:40 – 10:00am</td>
<td>Alice B. Kehoe (Independent)</td>
<td>Sustaining a Quality of Life</td>
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<td>10:00 – 10:20am</td>
<td>Billy Ó Foghlú (Australian National University)</td>
<td>Sustaining Cultural Identity through Environmental Sustainability: Earth Mounds in Northern Australia, c2200BP to present</td>
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<td>10:40 – 11:00am</td>
<td>Paulette Steeves (University of Massachusetts Amherst)</td>
<td>Sustaining a Meaningful Archaeology; Through Ceremonies of Research</td>
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<td>11:00 – 11:20am</td>
<td>Margaret Patton (University of Calgary)</td>
<td>Continuing Public Archaeology at Cluny Fortified Village (EePf-1)</td>
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Friday November 13th

Destroying our Past? Destructive Methods in Bioarchaeology
Session Chair: Bjorn Pearce Bartholdy\textsuperscript{1} and Krystyna Hacking\textsuperscript{1} (\textsuperscript{1}University of Calgary)
Location: CIBC Hub Room

1:00 – 1:20pm Bjorn Peare Bartholdy (University of Calgary)
\textit{I C(T) Dead People}

1:20 – 1:40pm Michael Buckley (University of Manchester)
\textit{Species Identification of Faunal Remains by Collagen Fingerprinting – Damaging or Enhancing Archaeological ‘Bioarchives’?}

1:40 – 2:00pm Meaghan Mackie\textsuperscript{1}, Anita Radini\textsuperscript{1, 2}, and Camilla Speller\textsuperscript{1} (\textsuperscript{1}University of York), (\textsuperscript{2}University of Leicester Archaeological Services)
\textit{The Sustainability of Dental Calculus for Archaeological Research}

2:00 – 2:20pm Tyler James Murchie (McMaster University)
\textit{The Viability of Degraded, Cryogenic Wood as a Target Tissue for Ancient DNA Analysis}

2:20 – 2:40pm Katherine Bishop (University of Alberta)
\textit{Examining Animal Husbandry and Landscape Use in Roman Italy: A Different Approach to Old Faunal Stable Isotope Data}

2:40 – 3:00pm Coffee Break

3:00 – 3:20pm Priscilla Mollard (University of Massachusetts Amherst)
\textit{Incorporating the Bioarchaeology of Children into Biocultural Studies of Violence}

3:20 – 3:40pm Bjorn Peare Bartholdy (University of Calgary), Krystyna Hacking (University of Calgary), and Tyler James Murchie (McMaster University)
\textit{Give a Dog a Bone: Evaluating the Sustainability of an aDNA Analysis of Canid Bones from the Canadian Plains}
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
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Friday November 13th

**Inspiring Endless Horizons: The Presentation and Engagement of Archaeology**
Session Chairs: Meaghan Peuramaki-Brown (Athabasca University) and Shawn Morton (University of Calgary)
Location: Scotiabank Milling Area

9:00 – 9:20am  Meaghan Peuramaki-Brown (Athabasca University)
*Engaging Diversity in the Presentation and Promotion of Archaeology*

9:20 – 9:40am  Michael Ruggeri (City Colleges of Chicago)
*Spreading the Word of the Ancient Americas in the 21st Century: Listservs, Web Pages and Social Media*

9:40 – 10:00am Jay A. Frogel (Ohio State University and World Images)
*Frederick Catherwood – The Artist and Visual Promoter*

10:00 – 10:20am Cassandra Bullis (University of Calgary)
*The Quiet Revolution; Archaeology, Fiction and Feminism*

10:20 – 10:40am  **Coffee Break**

10:40 – 11:00am Stanley Guenter (Independent)
"What Are We Trying To Sustain?: The Allure and Risks of Sustainability Studies in Maya Archaeology"

11:00 – 11:20am Andrej Vasko (Autonomous University of Yucatan)
*Listening to the Voiceless: Community Perspectives on Sustainable Archaeo-Tourism from Maya Ruins of Uaxactun, Guatemala*

11:20 – 11:40am Alejandra Alonso-Olvera (Instituto Nacional de Antropologia e Historia, Mexico)
*Archaeological heritage conservation and public outreach strategies within Mexico’s institutional framework: compensating for the current commodification and misconception of the archaeological Maya past*

11:40 – 12:00pm Leah McCurdy (University of Texas at San Antonio), and Jason Yaeger (University of Texas at San Antonio)
*Succotzéños & Archaeology: A Long History and New Ideas for Local Engagement*

12:00 – 1:00pm  **Lunch**
1:00 – 1:20pm  Kathryn Reese-Taylor (University of Calgary), and Julia Guernsey (University of Texas at Austin)
Engaging the Public through Words and Deeds: a Critique of the Writings and Workshops of Linda Schele

1:20 – 1:40pm  Sarah M. Rowe (University of North Carolina, Chapel Hill), and Patricia A. McAnany (Kenan Eminent Professor, University of North Carolina, Chapel Hill)
Maya Heritage Curriculum: Interventions in Guatemalan Primary School Classrooms

1:40 – 2:00pm  Jon Voelkel (Lerner Publishing), and Pamela Voelkel (Lerner Publishing)
Bringing the Maya to Middle Schools

2:00 – 2:20pm  C. Mathew Saunders (Davidson Day School - American Foreign Academic Research)
Uncovering a New Path: Archaeological Sustainability with Non-Traditional Participants

2:20 – 2:40pm  Mat Saunders’ High School Students

2:40 – 3:00pm  Coffee Break

3:00 – 3:20pm  Thomas H. Guderjan (University of Texas at Tyler)
Insights into Alternative and Non-Traditional Funding Sources

3:20 – 3:40pm  Sarah Whitcher Kansa (The Alexandria Archive Institute / Open Context)
Data as Professional Practice in Archaeology

3:40 – 4:00pm  Harri Kettunen (University of Helsinki)
Corpus Epigraphic Methods in Maya Studies: Implications and Applications

4:00 – 4:20pm  Tomás Barrientos (Universidad del Valle de Guatemala), and Matilde Ivic (Universidad del Valle de Guatemala)
The Mayanization of Guatemala and the Practice of Archaeology
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
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Friday November 13th

Jane Holden Kelley: A Sustaining Force in Archaeology
Session Chairs: Adrianne Offenbecker (University of Calgary) and Kyle Waller (University of Missouri)
Location: Evans Room

9:00 – 9:20am  Danny Zborover (Brown University)
*Back to the Calderón Site: Social Memory Below and Above the Ground*

9:20 – 9:40am  Michael Searcy (Brigham Young University), and Todd Pitezel (Arizona State Museum, University of Arizona)
*Recent Explorations in Viejo Period Archaeology at the Vista del Valle Site in Chihuahua, Mexico*

9:40 – 10:20am  Jerimy Cunningham¹, Art MacWilliams², Richard Garvin³, and Danny Zborover⁴
(¹University of Lethbridge), (²Independent), (³University of British Columbia), (⁴Brown University)
*Jane in the Field: Tales from the Proyecto Arqueológico Chihuahua (PAC)*

10:20 – 10:40am  Coffee Break

10:40 – 11:00am  M. Anne Katzenberg¹, Kyle Waller², Adrianne Offenbecker¹, Courtney McConnan Borstad¹, and Ana Morales¹
(¹University of Calgary), (²University of Missouri),
*Jane’s Influence: Violence, Mobility, and Social Organization at Casas Grandes*

11:00 – 11:20am  Fabiola E. Silva (Cherokee Nation Management and Consulting), and Jane H. Kelley (University of Calgary, Professor Emerita)
*Hechizas: A History of Looting and Ceramic Fakes in Northwest Chihuahua*

11:20 – 11:40am  Richard Garvin (University of British Columbia)
*Environmental Variability in the PAC Region*

11:40 – 12:00pm  Stephen H. Lekson (University of Colorado Boulder)
*We Get the Southwest We Deserve: Historiography of SW Archaeology*
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
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Saturday November 14th

Escaping the Grey Literature: Recent Contributions from Cultural Resources Management
Session Chairs: Laura Nuttall (Stantec Consulting Ltd.) and Michael Turney (Golder Associates Ltd.)
Location: CIBC Hub Room

1:00 – 1:20pm  Laura Nuttall (Stantec Consulting Ltd.), and Matthew Munro (University of Calgary)
Surviving an Edmonton Winter 4,000 years ago: Evidence from two McKean Complex sites

1:20 – 1:40pm  Margarita de Guzman (Circle CRM Group), and Christian Thomas (Heritage Resources Unit, Government of Yukon)
Early Human Occupation in the Britannia Creek Valley: Preliminary Results of Exploratory Excavations at KfVi-3

1:40 – 2:00pm  Dale Elizabeth Boland (Stantec Consulting Ltd.)
Do you Hear What I Hear? Sounding off about Sounding Creek CRM

2:00 – 2:20pm  Brent Murphy (Golder Associates Ltd.)
Field Level Electronic Data Collection; Lessons Learned

2:20 – 2:40pm  Amanda Dow (Amec Foster Wheeler)
Colouring the Grey: An Artist's Perspective

2:40 – 3:00pm  Coffee Break

3:00 – 3:20pm  Michael Turney (Golder Associates Ltd.)
Toolstone Studies in Alberta: Prospect and Retrospect
The Past, Now Showing in 3D: The Application and Ethics of Using 3D Technologies for the Dissemination of Archaeological Data
Session Chair: Jared Katz (University of California Riverside)
Location: Scotiabank Milling Area

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tr>
<td>9:00 – 9:20am</td>
<td>Sorin Hermon (The Cyprus Institute) (Presenting via Fuze)</td>
<td>Total Dissemination – Data Transparency, Uncertainty and 3D Research in Archaeology: Santa Cristina Archaeological Site (Italy) as a Case-Study</td>
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<td>9:20 – 9:40am</td>
<td>Heather Richards-Rissetto (University of Nebraska-Lincoln) and Jennifer von Schwerin (German Archaeological Institute, Bonn)</td>
<td>A Catch 22: 3D Archaeological Data--Access to what and by whom?</td>
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<tr>
<td>9:40 – 10:00am</td>
<td>Alexandre Tokovinine (Harvard University)</td>
<td>From Stucco to Digital: Topometric Documentation of Classic Maya Facades</td>
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<tr>
<td>10:00 – 10:20am</td>
<td>Stephanie Miller (University of California Riverside)</td>
<td>New Technology, Old Problems: 3D Virtual Models and the Challenge of Authentic Representation</td>
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<td>10:20 – 10:40am</td>
<td>Coffee Break</td>
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<tr>
<td>10:40 – 11:00am</td>
<td>Katherine McCusker (Duke University)</td>
<td>Disseminating Data: Creating Online Platforms for Scholars and the Public</td>
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<tr>
<td>11:00 – 11:20am</td>
<td>Mary Compton (University of Western Ontario)</td>
<td>Where do we go from here? Innovative Technologies and Heritage Engagement with the MakerBus</td>
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<tr>
<td>11:20 – 11:40am</td>
<td>Susan Hazan (The Israel Museum) (Presenting via Fuze)</td>
<td>Performing the Museum in an Age of Digital Reproduction</td>
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<tr>
<td>11:40 – 12:00pm</td>
<td>Billy Ó Foghlú (Australian National University)</td>
<td>3D Technologies can help to break the Silence of Irish Iron Age Musical Horns</td>
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<tr>
<td>12:00 – 1:00pm</td>
<td>Lunch</td>
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1:00 – 1:20pm  Jared Katz (University of California Riverside)
Digitized Maya Music: The Creation of a 3D Database of Maya Musical Artifacts

1:20 – 1:40pm  Nicola Lercari (University of California Merced)
3D Visualization and Reflexive Archaeology: The Virtual Reconstruction of Çatalhöyük History Houses
Jane Holden Kelley: A Sustaining Force in Archaeology
Session Chairs: Adrianne Offenbecker (University of Calgary) and Kyle Waller (University of Missouri)
Location: Evans Room

9:00 – 9:20am Alice B. Kehoe (Independent)
Inferences to the Best Explanations

9:20 – 9:40am Marc Thompson (Friends of Tijeras Pueblo)
JHK: A Scholar for All Seasons

9:40 – 10:20am Nic David¹, Brian Kooyman², Kathryn Reese-Taylor³, and Scott Raymond¹,
(¹University of Calgary, Professor Emeritus), (²University of Calgary, Professor), (³University of Calgary, Associate Professor)
The Many Faces of Jane: Tributes

10:20 – 10:40am Coffee Break

10:40 – 11:00am Geoff McCafferty (University of Calgary), and Sharisse McCafferty (Mi Museo, Granada, Nicaragua)
Spinning in the Grave: Gender Symbolism and Mortuary Patterns on Mesoamerica's Southern Frontier

11:00 – 11:20am Doyle Hatt (University of Calgary, Associate Professor Emeritus)
Jane Holden Kelley’s Yaqui Life Histories: Between Ethnography and Narrative

11:20 – 12:00pm Video Tributes and Closing Remarks by Jane Kelley
Sustaining Cultural Identity through Ritual: Responses to Conflict and Catastrophe
Session Chair: Marieka Arksey (University of California Merced)
Location: Evans Room

1:00 – 1:20pm Marieka Arksey (University of California Merced)
*Late Classic Maya Cave Use: Ritual Transformation as a Strategy to Maintain Order*

1:20 – 1:40pm Shawn Morton (University of Calgary)
*Cave Ritual as a Stabilizing Force in Central Belize*

1:40 – 2:00pm Patrick Wilkinson (University of California Merced)
*Cave Vodou in Haiti: An Ethno-Archaeological Approach*

2:00 – 2:20pm Holley Moyes (University of California Merced)
*Pilgrimage and Social Solidarity on the Eve of the Maya Collapse*

2:20 – 2:40pm Gabriel Wrobel (Michigan State University)
*Conflict and Catastrophe in Models of Maya Mortuary Cave Use: A Bioarchaeological Perspective*

2:40 – 3:00pm Coffee Break

3:00 – 3:20pm Thomas H. Guderjan (University of Texas at Tyler)
*Early to Late Classic Maya Transformations at Blue Creek, Nojol Nah and Tulix Muul, Belize, and What They Mean*

3:20 – 3:40pm Brenda Prehal (University of New York), Adolf Friðriksson (Institute of Archaeology Iceland), and Howell Roberts (Institute of Archaeology Iceland)
*Strange Ritual in Viking Age Iceland: A Sign of Stress?*

3:40 – 4:00pm Erik Johannesson (Independent)
*New Stones on the Steppe: Mortuary Ritual, Stone Monuments, and Identity during the Xiongnu Empire in Mongolia (200 BCE-200 CE)*
**Shallow Pasts, Endless Horizons: Sustainability & Archaeology**  
*48th Annual Chacmool Conference*

**Saturday November 14th**

**Banquet and Keynote Speech**
Session Chairs: Robert Bird¹ and Julien Favreau¹ (¹University of Calgary)  
Location: MacEwan Hall Ballroom

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<tr>
<td>6:00pm</td>
<td>Doors Open</td>
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<tr>
<td>6:30 – 7:15pm</td>
<td>Dinner</td>
</tr>
</tbody>
</table>
| 7:15 – 7:20pm | Robert Bird¹ and Julien Favreau¹ (¹University of Calgary)  
                  *A few words*                                               |
| 7:20 – 7:30pm | Peter Dawson (University of Calgary)  
                  *Introducing Neil Ferris*                                    |
| 7:30 – 8:30pm | Neil Ferris (Lawson Chair of Canadian Archaeology, Museum of Ontario  
                       Archaeology/Department of Anthropology, University of Western  
                       Ontario)  
                  *Sustaining Future Archaeological Pasts?*                      |

**Keynote Abstract:** Archaeology by any definition – assuming it can still fit in a single definition – is not what it used to be. Trowel and brush evoke an antiquated sense of scale and means of data recovery in an age of geophys, gradalls, and massive scales of information accumulation. Artifact description and macro comparative analyses across one or two assemblages seem painfully limiting in a time of micron-level analyses, compositional studies, and Big Data capabilities. And accessing collections by looking at static objects under glass or as deemed appropriate to do so by curators seems quaint in an age of digital imaging and virtual archaeology.

At the same time, the archaeological profession is also not what it used to be. The notion of pursuing a tenured place in the academy seems increasingly a lottery of poor odds, while academic archaeologists become an ever shrinking constituency in light of rapid and continuous growth of commercial, bureaucratic, and other forms of making a living from archaeology. More notably scholarship continually diversifies along a plethora of conceptual and interpretive frames, and the narratives we tell and foci of research we pursue seem so scattered across the spectrum that it is difficult to think of archaeology as a singular discipline or common set of values. Moreover, any notion that archaeology is of relevance beyond itself in society purely through the pursuit of knowledge and intellectual curiosity seems at best naïve given that archaeology now primarily operates in the service of capitalist enterprise, State-managed policy, or Descendant/community heritage – social processes and constituencies of the archaeological heritage at best only mildly sympathetic to our internalist processes of meaning-making.
Within such a fractured and shifting world it is daunting to think about where archaeology goes from here. Indeed, any attempt to consider the question “can archaeology be sustainable through the 21st century” invites in response “what kind of archaeology” and “sustained for what purpose?” Oddly enough, thinking about these questions has been precisely the continual state of being for those of us who have worked for the last five years to form a Sustainable Archaeology – as a place and as a way of being archaeology. The insecurity and angst that comes from constant reflexivity and questioning, beyond erasing nostalgic impulses, has tended to underscore that many of the assumptions driving 20th century archaeological sensibilities are increasingly unsustainable. Instead, at least from where we sit, future strengths of archaeology seem to lay in the value-added potential of exploring the foundational work and massive accumulated output of the past century of archaeology in new ways, and to advance a notion of archaeological research and archaeological heritage of value both within and beyond archaeology. In this way, we learned to stop worrying and love what archaeology is becoming, and so offer here a glimpse of at least what one sustainable form of practice could be through the 21st century.
1. **The ANARKY Session: The (Sustainable) Archaeology of Sustainability**  
Session Chair: Adam Benfer (University of Calgary)  
Anthropological inquiries into sustainability and sustainable practices can be conducted using many methods and theories, by all subdisciplines, and on any population, past or present. The environmental issues that currently confront us are also found in the past; the archaeological record contains numerous examples in which societies developed long-term sustainable practices to cope with changing environments, but it also contains many more situations in which populations failed to respond to environmental stress. Taking a reflexive approach, we can also consider sustainable archaeological research methods and practices to mitigate negative impacts on the communities in which we study and the environment in which we live. Using diverse methods and approaches, the papers in this session explore sustainability among a variety of populations distributed across time and space, including Classic Maya city dwellers, Moche communities of Jequetpeque Valley, early European colonists in New England, elementary school children in Calgary, and modern archaeologists.

2. **Destroying our Past? Destructive Methods in Bioarchaeology**  
Session Chair: Bjorn Bartholdy (University of Calgary)  
Over the last century, there has been a significant development in the technology associated with the analysis of past human societies. These novel methods - such as stable isotope analysis, ancient DNA sequencing, radiocarbon dating and histology - provide valuable information on the diet, health, migration patterns, phylogenetics, and antiquity of material culture with increasing accuracy. A fundamental component of these methods, is that they often require the partial or complete destruction of the archaeological specimen examined, which themselves represent a finite resource. In this session, the concept of sustainability will be approached in terms of the ever-expanding arsenal of techniques that are available to the bioarchaeologist. Does the information obtained from these methods justify the process of destruction? Is it possible, with a growing assortment of non-destructive techniques, to obtain similar information without jeopardizing the possibility of future analysis? These questions and many more will be addressed, by scholars employing both destructive and non-destructive methods, in a dialogue on preserving material culture for future analysis.

3. **Escaping the Grey Literature: Recent Contributions from Cultural Resources Management**  
Session Chairs: Laura Nuttall (Stantec Consulting Ltd.) and Michael Turney (Golder Associates Ltd.)  
Cultural Resources Management (CRM) in Canada has been proven to be a viable, sustainable employment alternative to academic archaeology. In a time where academic careers are growing increasingly scarce, students graduating with archaeology degrees have turned to CRM for long-term employment. Driven by client timelines and budgets, CRM archaeologists, in conjunction with provincial regulating archaeologists strive to maintain best practices, and produce data that is of high interpretive value. Due to the inherent nature of the job, CRM archaeologists have the opportunity to record and excavate a wider variety of sites, in more remote locations than most
academic archaeologists. Through their experience they have tried numerous methods and methodologies, ever increasing their data recovery. This session will focus on recent contributions to Canadian archaeology made by CRM archaeologists including, new field methods and methodologies, as well as highlighting significant sites that may be otherwise lost to the grey literature.

4. Ethnoarchaeology, Heritage Management, and Community Outreach
Session Chair: Tatyanna Ewald (University of Calgary)
Community members, local residents, or individuals with ancestral ties to archaeological sites often question the sustainability of archaeological field practices. It is often challenging to demonstrate how archaeological research is relevant and beneficial to non-academic circles and contemporary societies. However, multiple platforms have been forwarded to mitigate such issues, including field schools, public archaeology programs, preserving traditional ecological knowledge and heritage, and community outreach. The Ethnoarchaeology, Heritage Management, and Community Outreach session presents an opportunity to discuss the inadvertent barriers archaeological research sometimes erects for the non-academic public. In addition, this session would like to consider ideas on how to best communicate our research with those individuals who question the sustainability of archaeology as a discipline. To accomplish this, presenters in this session will discuss sustainable approaches to heritage management and land use, cultural preservation, the coupling of archaeometry with ethnographic studies, creating meaningful partnerships with local communities, and encouraging public participating in in excavations and laboratory analysis.

5. Inspiring Endless Horizons: The Presentation and Engagement of Archaeology
Session Chairs: Meaghan Peuramaki-Brown (Athabasca University) and Shawn Morton (University of Calgary)
Archaeology is not sustainable; it is a resilient discipline. In order to survive, we have appeased the needs of our many stakeholders by continually modifying our engagement with a diverse audience through diverse media/mediums. Part of this modification involves expanding and encouraging non-traditional voices, as viewed through a Western Academic lens, in the development and promotion of our knowledge. In light of increasing economic scarcity, these ever-changing methods of engagement also include the pursuit of research funding through non-traditional channels. This session delves into such resilient activity by showcasing individuals in the Maya archaeological community (and beyond), who are exploring and promoting the endless, yet constantly evolving, horizons of presentation and engagement; their successes and failures highlight the importance of this discussion and should be of interest to those in all culture areas of the discipline.

Session Chairs: Adrianne Offenbecker (University of Calgary) and Kyle Waller (University of Missouri)
Over her long career, Jane Kelley has made significant contributions to the discipline of archaeology. Her extensive research spans from Yaqui life history to Southwestern archaeology, and from invaluable fieldwork in Mexico to influential treatments of archaeological theory. Her contributions are not limited to her own impressive accomplishments, but are also reflected in the generations of archaeologists she inspired. As a tribute to Jane’s wide range of influence, this
session consists of a mix of papers and panels from colleagues, former students and friends who have come together to celebrate Jane’s life and career. These talks highlight Jane’s influence on Northwest/Southwest archaeology, archaeological method and theory, and her substantial contributions to the Department of Archaeology at the University of Calgary. The presenters will demonstrate not only the strength of her influence on current generations of archaeologists, but how the legacy of her work and mentorship will continue long into the future.

7. **The Past, Now Showing in 3D: The Application and Ethics of Using 3D Technologies for the Dissemination of Archaeological Data**
   Session Chair: Jared Katz (University of California, Riverside)
   New technologies are allowing archaeologists to document and interact with the past in ways that were previously impossible. The potential impacts of the effective implementation of this new tool are dramatic and exciting. Applications range from allowing archaeologists to stand in a virtual recreation of an excavation while writing their interpretations, to emailing and then 3D printing copies of artifacts. 3D scanned monuments and vessels facilitate epigraphic and iconographic analysis by allowing scholars to freely rotate the object and view the image from any angle. The usefulness of 3D models is not solely academic in scope, as this new technology allows for different forms of interactions with the public. Students can do a virtual walk-through of an archaeological site in their classroom and museums can allow people to touch and play with 3D printed replicas of objects they have on display. This change in how we relate information to the public can bring the past to life for people, and make the field of archaeology more accessible to a broader audience. With this new technology, though, comes many potential ethical issues centered around questions of ownership and access. This panel seeks to discuss not only how 3D technology can be used as a tool for archaeological investigation, but also how to use it responsibly. By discussing both the various uses and the ethics of this tool now, we can begin to take full advantage of it while mitigating the potential of harmful practices in the future.

8. **Student Session**
   Session Chair: Laura Tucker (University of Calgary)
   This session will feature presentations from seven students focusing on a wide variety of archaeological methods and topics. Rennie will discuss the identification of tree species used for charcoal found in Nicaragua based on cellular structure and the implications that this research has for future archaeological and ecological work. As well, Forward will explore evidence of social inequality and community organization in the Rio Parita Chiefdom of central Panama. Livingston will discuss how various characteristics of tombstones were used to explore changing attitudes towards death and dying over time in Nova Scotia. Also, Lee will discuss the lack of interest from African scholars regarding paleoanthropological work in Africa based on his observations from a research project in the Olduvai Gorge. Christakis will explore novel excavation and laboratory methods that reduce the risk of modern contamination when dealing with phytoliths and starches from residues on ancient artifacts. Finally, Fleming will discuss eleven Geographic Information Systems (GIS) scripts in ArcGIS® and the limitations associated with them regarding temporal and visual information.

9. **Sustaining Cultural Identity through Ritual: Responses to Conflict and Catastrophe**
   Session Chair: Marieka Arksey (University of California Merced)
   The theme of Sustainability provides the opportunity to address both failures and successes in
past sustainability practices, while at the same time, acting as a forum to openly discuss the benefits archaeological research can have on promoting sustainable living today. One of the fundamental means by which groups sustain a sense of community identity and solidarity, especially in the face of conflict and change, is through ritual practices. This session seeks to address the theme of ritual sustaining identity along two inextricable and complementary veins:

1. Archaeological analyses which explore the diverse ways that past ritual activities from around the world have been used to express dissatisfaction, sustain identity, raise awareness, and effect change in response to conflict and catastrophic events.
2. The ways in which modern archaeological practice engages with modern local and global communities about these past ritual practices to support a sustainment of identity through an active collaborative production of heritage.

Because ritual practices are often one of the more ephemeral practices to search for in the archaeological record, the theme of ritual also provides an ideal opportunity for further discussion of the sustainability of anthropology as a discipline by looking at the diverse ways in which archaeologists approach the challenge of preserving, disseminating, and communicating the relevance of these often “invisible” findings to others.
# Points of Interest in Calgary (See maps below)

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<th>On Campus (Map A)</th>
<th>Downtown (Distance from the closest C-train station) (Map D)</th>
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<tr>
<td><em>Black Lounge/The Den</em>&lt;br&gt;Pub food $$&lt;br&gt;MacEwan Student Centre</td>
<td><em>The Palomino</em>&lt;br&gt;Smokehouse $$&lt;br&gt;100 m from Centre Street St.</td>
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<tr>
<td><em>Last Defence Lounge (LDL)</em>&lt;br&gt;Pub food $$&lt;br&gt;MacEwan Student Centre</td>
<td><em>Craft Beer Market</em>&lt;br&gt;Pub food $$&lt;br&gt;1 km from 3rd Street St.</td>
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<tr>
<td><strong>Stadium Shopping Centre</strong>&lt;br&gt;(Map B)</td>
<td>Sky 360 (Calgary Tower)&lt;br&gt;Restaurant and lounge $$ $$&lt;br&gt;500 m from Centre Street St.</td>
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<td><em>Moose McGuire's</em>&lt;br&gt;Pub food $$&lt;br&gt;&amp;$$&lt;br&gt;1 km</td>
<td><em>Pampa Brazilian Steakhouse</em>&lt;br&gt;Brazilian $$$&lt;br&gt;1 km from 3rd Street St.</td>
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<tr>
<td><em>The Keg Steakhouse &amp; Bar</em>&lt;br&gt;Steak $$$&lt;br&gt;1 km</td>
<td><em>One18 Empire</em>&lt;br&gt;Whiskey Bar and Restaurant $$&lt;br&gt;500 m from Centre Street St.</td>
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<tr>
<td><em>Redwater Rustic Grille</em>&lt;br&gt;Seafood, Steak $$ $$&lt;br&gt;1 km</td>
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<td><strong>Brentwood (Map C)</strong>&lt;br&gt;<em>Jameson's Pub</em>&lt;br&gt;Pub food $$&lt;br&gt;1.5 km</td>
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<tr>
<td><em>Kilkenny Irish Pub</em>&lt;br&gt;Pub food $$&lt;br&gt;1.5 km</td>
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Shallow Pasts, Endless Horizons: Sustainability & Archaeology
48th Annual Chacmool Conference

Map A

Map B
Shallow Pasts, Endless Horizons: Sustainability & Archaeology
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Map C

Map D