### Programme

**June 17th, 2019** - *“The Study”* Pub and Restaurant, SFU Burnaby Campus

- 4.30-6.30 Welcome Reception

**June 18th, 2019** - Room 10011, Bluson Hall, SFU Burnaby Campus

- 9.00-9.30 Registration
- 9.30-9.45 **Francesco Berna** and **George Nicholas** (Simon Fraser University) *Welcome Note*
- 9.45-10.15 **Charly French** (University of Cambridge) - **Keynote Address**
  - *Chronicling resilience of valley systems in semi-arid landscapes of southern Peru and East Africa*

**LANDSCAPE GEOARCHAEOLOGY I** (Chair: Francesco Berna)

- 10.15-10.45 **Joanna Walker** (University of Cambridge)
  - *Buried Indus Landscapes: Using Geoarchaeology to assess Human-Environment Interactions in northwest India*
- 10.45-11.00 Coffee Break
- 11.00-11.30 **Ailidh Hathway** (Simon Fraser University)
  - *A Microsedimentological Approach to Wetland Reconstruction: A Preliminary Case Study of Wonderwerk Cave, South Africa.*
- 11.30-12.00 **Michael C. Wilson** (Douglas College)
  - *Late Pleistocene to Early Holocene Trends in Landscape Stability: Geoarchaeological Findings from British Columbia and Alberta, Western Canada*
- 12.00-12.30 **Hasan Ahmadi-Karvigh** (University of Teheran)
  - *Zoroaster’s time based on new geoarchaeological findings in Seistan*
- 12.30-1.30 Lunch Break

**LANDSCAPE GEOARCHAEOLOGY II** (Chair: Brandi MacDonald)

- 1.30-2.00 **Shari Maria Silverman** (Washington State Parks and Recreation Commission)
  - *Landform Study to Understand its Sites: West Beach Barrier Berm, Whidbey Island, Washington state, United States (Puget Sound)*
- 2.00-2.30 **Christopher Carey** (University of Brighton)
  - *A geoarchaeological analysis of a Bronze Age roundhouse and reave system on Dartmoor, UK*
- 2.30-3.00 **Beatrice Fletcher** (McMaster University)
  - *Systematic Investigation of Anthropogenic Chemical Signatures at a 17th Century Huron-Wendat Village - Museum of Archaeology and Ethnology, SFU Burnaby Campus*
- 3.00-3.15 Coffee Break
- 3.15-4.15 Poster Session
- 4.30-5.30 Tour of The Department of Archaeology
  - *Nuba in Gastown* Lebanese Restaurant, 207 W Hastings St, Vancouver (Transfer from SFU by Bus 95)
- 6.45-9.00 **Conference Dinner**
## Programme

**June 19th, 2019 - Room 10011, Blusson Hall, SFU Burnaby Campus**

### GEOARCHAEOLOGY AND RAW MATERIALS SOURCING (Chair: Rudy Reimer)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9.00-9.30</td>
<td>Brandi MacDonald (Archaeometry Laboratory at MURR)</td>
<td><em>Geoarchaeological and Geochemical Approaches to Obsidian Source Distribution in Northwestern Patagonia</em></td>
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<tr>
<td>9.30-10.00</td>
<td>Aviad Agam (Tel-Aviv University)</td>
<td><em>Identifying Geologic origins of Flint at Acheulo-Yabrudian Qesem Cave, Israel: Results of an integrated study</em></td>
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<tr>
<td>10.00-10.30</td>
<td>Cornel Pop (Max Planck Institute for Evolutionary Anthropology)</td>
<td><em>Evaluating landscape knowledge and lithic resource selection at the French Middle Palaeolithic site of Bau de l’Aubesier</em></td>
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<td>10.30-10.45</td>
<td>Coffee Break</td>
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<tr>
<td>10.45-11.15</td>
<td>Peter Mears (University of New Brunswick - Saint John)</td>
<td><em>Weight versus the number of pieces: Do our interpretations of raw material use vary depending upon how we quantify use? A case study from the Middle Palaeolithic in the Vaucluse, southern France.</em></td>
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### GEOARCHAEOLOGY AND CHRONOMETRIC DATING (Chair: Charly French)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>11.15-11.45</td>
<td>Krista Gilliland (Western Heritage)</td>
<td><em>Illuminated from the Ground Up: An evaluation of luminescence dating methods for building a cultural chronology in Canada’s north</em></td>
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<tr>
<td>11.45-12.15</td>
<td>Jayde Hirniak (Arizona State University)</td>
<td><em>Discovery of cryptotephra at Middle-Upper Paleolithic sites Arma Veirana and Riparo Bombrini, Italy: A new link for broader geographic correlations</em></td>
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<td>12.15-1.30</td>
<td>Lunch Break</td>
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### GEOARCHAEOLOGY OF PREHISTORIC FIRE (Chair: Charly French)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1.30-2.00</td>
<td>Ximena Villagran (Universidade de São Paulo)</td>
<td><em>Invited Presentation</em> <em>On the evidence of hearths at Serra da Capivara (Brazil), the oldest human settlements in South America</em></td>
</tr>
<tr>
<td>2.00-2.30</td>
<td>Magnus Haaland (University of Bergen)</td>
<td><em>What’s in that black layer? A report on a 85,000 year old dark sedimentary feature in Blombos Cave, South Africa.</em></td>
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<tr>
<td>2.30-3.00</td>
<td>Candice Koopowitz (Simon Fraser University)</td>
<td><em>Evaluating the infrared 630cm⁻¹ O-H libration band in bone mineral as evidence of burning: an application to the Oldowan Fauna of Wonderwerk Cave</em></td>
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<tr>
<td>3.00-3.15</td>
<td>Coffee break</td>
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### GEOARCHAEOLOGY AND MATERIAL CULTURE (Chair: Lucy Wilson)

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<tr>
<td>3.15-3.45</td>
<td>Matthea Wiebe (Simon Fraser University)</td>
<td><em>Experimental strike-a-light fire-starting and its use as a starting point for identification of pyrogenic microdebitage in the archaeological record</em></td>
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<td>3.45-4.15</td>
<td>Géraldine Fiers (Ghent University)</td>
<td><em>Experimental alteration of flint used on prehistoric sites in NW Belgium</em></td>
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<td>4.15-4.45</td>
<td>Éva Halbrucker (Ghent University)</td>
<td><em>The impact of post depositional alterations on the preservation of microwear traces.</em></td>
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<td>4.45-5.15</td>
<td>Hannah Herrick (Simon Fraser University)</td>
<td><em>Best practices for analyzing archaeological lime production</em></td>
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**Image Details:**
- Image 32x31 to 180x64
- Image 110x716 to 399x785
- Image 377x38 to 512x59
- Image 372x59 to 471x781
Programme

June 20th, 2019 - Room 10011, Blusson Hall, SFU Burnaby Campus

**GEOARCHAEOLOGY FROM AND FOR THE INDIGENOUS PEOPLE OF B.C.** (Chair: Ximena Villagran)

9.00-9.30  **Rudy Reimer Yumks**, (Simon Fraser University)
_Sourcing pre-contact lithic materials in British Columbia: integrating traditional knowledge and geochemistry._

9.30-10.00  **Farid Rahemtulla** (University of Northern British Columbia)
_Smokehouse Island: an indigenous terra formed island on the Babine River, North Central British Columbia_

10.00-10.30  **Morgan Ritchie** (Sts’ailes & University of British Columbia)
_Multi‐scalar geoarchaeology study of Settlement of Riverine Islands and the formation of the Harrison‐Chehalis Confluence, SW, British Columbia._

10.30-10.45  Coffee break

10.45-11.15  **Francesco Berna** (Simon Fraser University)
_Microstratigraphic study of combustion features from short-lived intermittent occupation at a 1300-year-old Coast Salish rock shelter, British Columbia_

11.15-11.45  **Andrew Latimer** (Simon Fraser University)
_How Skwxwú7mesh Transformer Sites Convey and Encode Cultural and Geological Knowledge_

11.45-12.15  **Lucy Wilson** and **Brandi MacDonald**
_Prizegiving_

12.15-12.30  **Organizing Committee Members**
_Concluding Remarks_

12.30-1.30  Lunch break

- Room **TASC2 7530**, TASC-2 Building, SFU Burnaby Campus

1.30-4.30  Soil Micromorphology Workshop

June 21st, 2019 Field Trip led by **Rudy Reimer Yumks**

“Geological features and the epic battle between a Squamish Nation warrior and a two‐headed serpent”

9.00  Depart from SFU Burnaby Campus

10.15-10.30  Arrival and Visit Squamish Downtown

10.30-11.00  Transfer to Squamish Chief Parking Lot

11.00-11.30  Squamish Chief

11.30-11.45  Transfer to Murrin Park

11.45-12.30  Murrin Park

12.30‐1.00  Transfer to Porteau Cove

1.00-2.00  Porteau Cove (Picnic Lunch)

2.00-2.30  Transfer to Whyte Cliff Park

2.30-3.15  Whyte Cliff Park

3.30  Drop Off at Lonsdale Quay - Public Transit Sea-Bus to Downtown Vancouver

4.00  Return to SFU Burnaby Campus
Programme

Poster Presentations

**Museum of Archaeology and Ethnology**, SFU Burnaby Campus
Tuesday to Thursday 10am-12pm 1-4pm

**Ales Bajer** and **Lenka Lisá** (Mendel University in Brno)
“Archaeological Dark Earth as a marker of past landscape cultivation; case study from Moravia, Czech Republic”

**Megan Thibodeau** and **Francesco Berna** (Simon Fraser University)
“Wood ash in the Oldowan layers of Wonderwerk cave, South Africa”

**Emma Betz** (University of Oxford) and **Matthew McCarty** (University of British Columbia)
“Stylistic and Scientific Analysis of a Fortuna Statuette”

**Valentina Caruso** (University of Milan, Italy) et al.
“Microstructural and chemical degradation of archaeological and modern human bones: a new application of synchrotron radiation µCT and FT-IR spectroscopy”

**Emma Lowther** (Simon Fraser University) et al.
“Micro-stratigraphy of an anthropogenic island, Lake Babine, British Columbia”

**Emily Purcell** (Simon Fraser University) et al.
“Using biogenic Silica Microremains to understand Anthropogenic Deposits in Sts’ailes Territory, BC”

**Nicholas Riddick** (McMaster University) et al.
“Multi-proxy paleoenvironmental record of coastal uplift and abandonment (6th c. CE) of Lechaion’s inner harbour, Corinth (Greece)”

**Irini Sifogeorgaki** and **Gerrit Dusseldorp** (Leiden University)
“Stratigraphic assessment of Umhlatuzana Rock Shelter, KwaZulu-Natal, South Africa”

**Earl Stefanyshen** and **Francesco Berna** (Simon Fraser University)
“Microstratigraphic protocol to assess the wildfire impact to buried archaeological sites”

**Lucy Wilson** (University of New Brunswick – Saint John)
“Geochemical Characterisation of Flint from the Vaucluse, Southern France”