



August, 27-28-29, 2018 - Simon Fraser University B.C., Canada

### Programme

**Monday, August 27<sup>th</sup> 2018** ([Blusson Hall, Lecture Hall 9660 - Burnaby Campus – Simon Fraser University](#))

- 8.30 am Registration
- 9.00 am [Dongya Yang](#) (Simon Fraser University)  
*“Welcome from the Faculty of Environment’s Associate Dean”*
- 9.15 am [Mike Richards](#) (Simon Fraser University) - **Keynote Address**  
*“Recent Trends in Archaeological Science”*
- 10.00 am Coffee Break
- 10.30 am [Kate Britton](#) (University of Aberdeen) - **Invited Presentation**  
*“Where is this going? Taking 'a stable relationship' to the next level”*
- 11.00 am [Christina Cheung](#) (Simon Fraser University)  
*“In search of early migrants in the South Pacific: Identifying residential mobility in Sigatoka, Fiji, using strontium isotope analysis”*
- 11.30 am [Joe Hepburn](#) (Simon Fraser University)  
*“A Multi-Isotope, Multi-Proxy Isoscape of Southern British Columbia”*
- 12.00 pm Lunch Break
- 1.30 pm [Gideon Hartman](#) (University of Connecticut)  
*“Post-charring diagenetic alteration of archaeological lentils by bacterial degradation”*
- 2.00 pm [Hannah Herrick](#) (University of Arizona / Simon Fraser University)  
*“Applying <sup>87</sup>Sr/<sup>86</sup>Sr Analysis to Anthropogenic Charcoal: In Theory and Practice”*
- 2.30 pm Tea Break
- 3.00 pm [Camilla Speller](#) (University of York) - **Invited Presentation**  
*“Small molecules - Big questions: How advances in DNA are transforming Archaeological Science”*
- 3.30 pm [Elena Zavala](#) (Max Planck Institute for Evolutionary Anthropology)  
*“Preservation of Ancient DNA in Pleistocene Sediments”*
- 4.00 pm Poster Session Opening  
+ Raman Spectroscopy Demonstration by *Mohammed Ibrahim (Thermo Fisher Scientific)*

Sponsored by:



SFU ARCHAEOLOGICAL ISOTOPE LABORATORY  
SFU ARCHAEOBOTANY LABORATORY  
JON AND CATHY DRIVER FUND  
THE BERTHA AND LOUIS WEINSTEIN RESEARCH FUND





August, 27-28-29, 2018 - Simon Fraser University B.C., Canada

## Programme

**Tuesday, August 28<sup>th</sup> 2018** ([Blusson Hall, Lecture Hall 9660 - Burnaby Campus – Simon Fraser University](#))

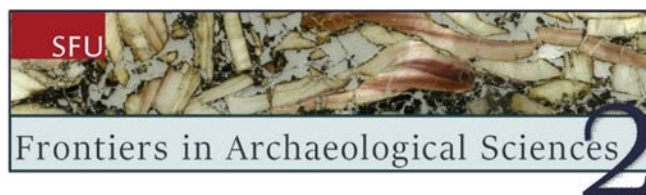
- 9.00 am **[Michael Buckley](#)** (University of Manchester) - **Invited Presentation**  
*“Advances in the use of proteomics in archaeological science”*
- 9.30 am **[Matt Sponheimer](#)** (University of Colorado)  
*“Saving Old Bones: a non-destructive method to determine bone suitability for radiocarbon dating and proteomic analyses”*
- 10.00 am **[Katherine Bishop](#)** (University of Alberta)  
*“Sheep, Teeth, and Isotopes: An investigation of animal management practices during the Classical and Hellenistic periods in Thessaly, Greece”*
- 10.30 am Coffee Break
- 11.00 am **[Brandi McDonald](#)** (University of Missouri) - **Invited Presentation**  
*“Microbes and Microanalysis: Advances in Pacific Northwest Rock Art Research”*
- 11.30 am **[Filipe Natalio](#)** (Weizmann Institute of Science) - **Invited Presentation**  
*“The hidden secrets of flint”*
- 12.00 pm **[Jose Peña](#)** (University of South Florida)  
*“Using Ceramic Paste Analysis and Compositional Analysis in the Study of Household Pottery Production”*
- 12.30 pm Lunch Break
- 1.30 pm **[Shannon Croft](#)** (University of York)  
*“Lithic Residue Analysis at Starr Carr”*
- 2.00 pm **Mohammed Ibrahim and Erik S. Haddadine** (Thermo Fisher Scientific)  
*“Raman Spectroscopy Demonstration”*
- ([Segal Graduate Building, 500 Granville Street – Downtown Campus – Simon Fraser University](#))*
- 5.30 pm Workshop’s Reception (Open to the Public upon Registration)
- 6.30 pm **[Rudy Reimer](#)** (Simon Fraser University) - **Public Talk**  
*“A New Form of Indigenous Archaeology: The Wild Archaeology TV Series Experience”*
- ([Nuba – Gastown](#), 207 West Hastings Street, Vancouver, B.C.)*
- 8.00 pm Workshop Dinner (by Invitation only)

Sponsored by:



SFU ARCHAEOLOGICAL ISOTOPE LABORATORY  
SFU ARCHAEOBOTANY LABORATORY  
JON AND CATHY DRIVER FUND  
THE BERTHA AND LOUIS WEINSTEIN RESEARCH FUND





August, 27-28-29, 2018 - Simon Fraser University B.C., Canada

## Programme

**Wednesday, August 29<sup>th</sup> 2018** ([Blusson Hall, Lecture Hall 9660 - Burnaby Campus – Simon Fraser University](#))

---

- 9.00 am [Zenobia Jacobs](#) (University of Wollongong) - **Invited Presentation**  
*"Optical dating in archaeology: current progress and future prospects"*-.  
9.30 am [Nathan Jankowski](#) (University of Wollongong)  
*"Novel approaches to providing sedimentary context to OSL dating samples"*  
10.00 am Coffee Break  
10.30 am [Michael Toffolo](#) (Université Bordeaux Montaigne):  
*"Anthropogenic carbonates: a new material for radiocarbon dating in archaeology"*  
11.00 am [Chris Carleton](#) (Simon Fraser University)  
*"Chronological uncertainty severely complicates the identification of cyclical processes in radiocarbon-dated time-series"*  
11.30 am [Robert Gustas](#) (University of Victoria)  
*"How Much Food on a Beach: Modelling Shellfish Densities in British Columbia"*  
12.00 pm [Rob Rondeau](#) (Simon Fraser University)  
*"Beyond Beringia: The Search for New Archaeological Sites Underwater"*  
12.30 pm Lunch Break  
2.00 pm [Carla Lancelotti](#) (Universitat Pompeu Fabra) - **Invited Presentation**  
*"Phytolith analysis: a tool to understand past land use in drylands"*.  
2.30 pm [Emily Purcell](#) (Simon Fraser University)  
*"Island Built Environments: Characterizing Anthropogenic Phytolith Assemblages"*  
3.00 pm Tea Break  
3.30 pm [John Welch](#) (Simon Fraser University)  
*"Archaeological Science in Service to Preservation Ethics: Forensic Sedimentology and the Prevention, Investigation, and Prosecution of Cultural Heritage Crime"*  
4.00 pm [Christina Giovas](#) (Simon Fraser University), [Catherine D'Andrea](#) (Simon Fraser University)  
*Discussants' Notes*  
4.30 pm [Francesco Berna](#)  
*Concluding Remarks*

Sponsored by:



SFU ARCHAEOLOGICAL ISOTOPE LABORATORY  
SFU ARCHAEOBOTANY LABORATORY  
JON AND CATHY DRIVER FUND  
THE BERTHA AND LOUIS WEINSTEIN RESEARCH FUND





August, 27-28-29, 2018 - Simon Fraser University B.C., Canada

## Programme

### Poster Presentations

(9000 Level Atrium - Blusson Hall - Burnaby Campus – Simon Fraser University)

**Francesco Berna** (Simon Fraser University)

*“Advancements in Fourier transform infrared micro-spectroscopy (mFTIR) mapping of archaeological materials”*

**Emma Betz** (University of Oxford)

*“Broad Temperature Changes on the Western Cape Coast in the Late Holocene using Cymbula granatina”*

**Nicolas Bourgon** (Max Planck Institute for Evolutionary Anthropology) *et al.*

*“Zinc isotopes in fossil teeth and their use as dietary tracer: evidences from a multi-isotopes study”*

**Rebecca Gerdes** *et al.* (Cornell University)

*“Organic residue analysis and compound-specific 14C dating of ceramics and plaster floors at two Cypriot Late Bronze Age urban centers”*

**Eric Guiry** (University of British Columbia) *et al.*

*“Which fish? A simple method for differentiating kokanee and sockeye salmon”*

**Emma Lowther** (Simon Fraser University) *et al.*

*“Sediment Analysis from Landscape Modification for Capturing Salmon at Babine Lake, British Columbia”*

**Deborah Merrett** (Simon Fraser University)

*“Population health: assessing of dental microstructure age and ages from bone growth and development: An Early Neolithic - Chalcolithic comparison from the Zagros Mountains”*

**Thomas Royle** (Simon Fraser University) *et al.*

*“DNA-Based Sex Identification of Atlantic Salmon (Salmo salar) Remains from the Middle Iroquoian (ca. AD 1250-1300) Antrex Site, Ontario, Canada”*

**Alessandria Testani, Jon Driver** (Simon Fraser University)

*“Human Ecology through Zooarchaeology at Tse’K’wa (Charlie Lake Cave), British Columbia”*

Sponsored by:



SFU ARCHAEOLOGICAL ISOTOPE LABORATORY  
SFU ARCHAEOBOTANY LABORATORY  
JON AND CATHY DRIVER FUND  
THE BERTHA AND LOUIS WEINSTEIN RESEARCH FUND

