

Spring 2014



Western



sustainablearchaeology.org



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Notes From The SA

The Sustainable Archaeology Newsletter

CAA 2014: London Ontario



On behalf of the Steering Committee for the 2014 Canadian Archaeological Association conference in London, Ontario, (May 14-18, 2014) I would like to take this opportunity to share some of the inter-

esting directions that this conference is headed. Additionally, I would like to extend an invitation to join us to participate in some of these exciting discussions.

CAA conferences generally do not have themes for their sessions, but this year the sessions, papers, and forums have definitely taken a technological flavour. As a growing number of archaeologists

are engaged with new and ever changing technologies, there is a greater population of Canadian archaeologists who are interested in discussing how these technologies can be incorporated into existing field methodologies, adopted to develop new field techniques, and fundamentally shift what it means to 'do archaeology'.

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Sustainable Archaeology: In Pictures



Top (left to right): An OAS conference attendee tries out the Lawson simulation with the Oculus Rift in October; camera stations at SA: Western in December; Western University work study student Branwen applies labels to the mobile shelving units



Bottom: (left to right): Winter sunset at SA: Western in December; artifact cabinets in the SA: Western repository arrived in January 2014

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Paper sessions like *Geophysical Survey Applications to Archaeology, Modernization and Archaeological Practice*, and *Virtual Archaeology* demonstrate that these themes and questions are at the forefront of peoples' minds and promise to be exciting discussions about how various people are engaged in this discussion.

In addition to paper sessions, we are also highlighting some new technologies and their applications to

archaeology. Private companies from around the world who are demonstrating the archaeological applications of various technologies are filling our display room. We are also hosting a reception at the [Museum of Ontario Archaeology](#) and [Sustainable Archaeology](#) to showcase some of the new applications of digital archaeology and collections management ongoing here in London.

Everyone is welcome to join us for the conference and details are available on the

[conference webpage](#). The conference webpage also has a full list of the sessions and forums, as well as conference events. If you have any questions feel free to [contact us](#), or you can follow us through our [Facebook page](#) or through Twitter [@CAA2014ACA](#) to get the latest conference related news.

We hope to see you in London!

Matthew Beaudoin

Programme Chair

Spring 2014 at Sustainable Archaeology: Western

2014 promises to be an exciting year for Sustainable Archaeology: Western. Since our last newsletter in October 2013, we've received new equipment at the facility, and are looking forward to the upcoming Canadian Archaeological Association conference in London in May.

January saw the arrival of not only a great deal of snow, but of our much an-

anticipated Projet 660 Pro 3D printer.



Front and back views of our first 3D print: a bone comb from the Lawson Site in London, ON.

Using powder and binder as the materials for its

build process rather than a plastic extruded method, the Projet 660 allows for life-like colour reproductions of objects. Thus far we have completed only test prints, and are still experimenting with the software, as well as methods of infiltration, the process by which the completed prints are hardened, and finalized.

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3D printer in the Ancient Images Laboratory



Print in progress in the build envelope

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In addition to our 3D printer, we received our photography equipment, including Nikon D5200 HDR cameras, light tents, and studio lights. The photography stations will be used primarily to capture images of artifacts that will accompany each artifact record in the database. The stations will also be used to capture of high quality images for texture/colour overlay for 3D scans.

This winter we have welcomed a number of new students to the facility, including our Western work study students, tours by the

Western Anthropology undergraduate and graduate societies, and students from both the Anthropology and Earth Studies departments who have used the white light 3D scanners to complete scanning projects.

Throughout the spring, we look forward to more test prints with the 3D printer, as well as additional steps toward the setup of the facility. In April we look forward to welcoming back the Art Gallery of Ontario, who will be using the Micro-CT scanner for additional studies of wooden prayer beads in their collec-

tion

In May we will join with archaeologists in London, Ontario and the surrounding area to welcome the Canadian Archaeological Association's annual conference. As seen in the front half of this newsletter, the conference promises to be an exciting few days, with several interesting sessions and social events –including a tour night for Sustainable Archaeology on the Thursday evening. We look forward to meeting our colleagues, and to establishing new partnerships. See you in May!

Update on Sustainable Archaeology: McMaster

Catherine Paterson

Sustainable Archaeology: McMaster has welcomed many facility users and visitors to tour the lab and repository over the last year. Several researchers have accessed the collections housed on-site, including a PhD candidate from Memorial University who col-

lected faunal samples from thirty-one Ontario sites as part of her dissertation on the mobility of past populations throughout the province.

We have also had researchers bring material to the facility where we have aided in artifact identification and have created high reso-

lution images with our Zeiss AxioZoom microscope. To date, the smallest items we have imaged are the archaeological and modern tobacco seeds that Rudy Fecteau brought by in December that we captured at a magnification of 112x.

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We have also had the opportunity to give multiple tours of our facility at McMaster Innovation Park to groups interested in Ontario archaeology, collections management, and materials conservation, including members of the Ontario Archaeological Society Hamilton Chapter, a Museums and Anthropology class from McMaster, conservators from the Canadian Conservation Institute in Ottawa, and local high school students who took part in McMaster Innovation Park's "Bring Your Kids to Work" day last fall.

McMaster Work Study students have been busy preparing legacy collections from McMaster's Department of Anthropology to adhere to SA policies and procedures. This also involves reintegrating collections such as the Walker site that have been separated over time for use in teaching collections, research projects, and artifact displays. This process has given us great insight into how Ontario ar-

chaeological collections have been used in the past and is helping us to plan future collaborations.

SA McMaster has recently been in the news regarding discussions of the long-term storage and accessibility of the artifacts excavated from land that was developed into the Red Hill Valley Parkway, which opened in 2007. A joint stewardship board was created in 2002 with members from the Six Nations community and Hamilton City Council to plan for the future of the impacted area that spans the Niagara escarpment to Lake Ontario. Recently, discussion has centred on the option of transferring the estimated 400 boxes of archaeological material currently stored by the various archaeological companies involved in excavation to Sustainable Archaeology McMaster.

You can read the most recent Hamilton Spectator article here: www.thespec.com/news-story/4357936-civic-safekeeping-sought-for-red-hill-treasures/



Left and right images: on-going collections work and repackaging in the Dry Lab by McMaster work study students

Research Grant Opportunities

Note: Please verify all application criteria and deadlines with the appropriate granting organization.

MITACS Accelerate Research Internship Program

Through Mitacs Accelerate, graduate students and postdoctoral fellows from over 50 universities apply their specialized expertise to business-related research challenges.

Interns spend approximately half of the time on-site with the industry partner; the remainder is spent at the university advancing the research under the guidance of a faculty supervisor.

The program is open to all disciplines and all industry sectors.

Each 4-month internship project receives \$15,000 in direct funding, with the partner organization and Mitacs each providing \$7,500

Application Deadline: Applications are accepted throughout the year, and

projects may begin at any time.

For specifics on the program, funding, application criteria and more, visit www.mitacs.ca/accelerate

MITACS Elevate

Mitacs Elevate supports postdoctoral fellows and Canadian companies and partners to collaborate on cutting-edge research projects and build capacity for the next generation of R&D management leaders.

The two-year program provides fellows with an opportunity to lead a long-term research project with a partner organization while developing professional skills and benefiting from leadership training.

Application Deadline: The next call for applications is tentatively scheduled for Spring 2014.

For more information on

eligibility, how to apply, and more, visit www.mitacs.ca/elevate

The Leakey Foundation Research Grants

The Leakey Foundation funds research related to human origins, including paleoanthropology, primate behavior, & studies of modern hunter-gatherer groups.

Research Grants to doctoral student are in the \$3,000-\$13,500 range; larger grants to senior scientists and post-doctoral students may be funded up to \$22,000. No citizenship restrictions.

Application Deadline: July 15 and January 5 yearly

For more information visit www.leakeyfoundation.org/grants/

Research Grant Opportunities

Note: Please verify all application criteria and deadlines with the appropriate granting organization.

Ruggles-Gates Fund for Biological Anthropology

Fund administered by the Royal Anthropological Institute that provides grants for graduate research in biological anthropology. No nationality restriction.

Application Deadline:

March 31 yearly

For more information on the nature of the award, and how to apply, visit www.therai.org.uk/awards/research-grants/ruggles-gates-fund-for-biological-anthropology/

Sigma Xi Grants-in-aid of Research Program

Grants of up to \$1,000 to students from all areas of the sciences and engineering. Grants are used to pay for travel expenses to and from a research site, or for the purchase of non-standard laboratory equipment. Membership of Sigma Xi is not a require-

ment. No citizenship restrictions.

Application Deadline:

March 15 and October 15 annually.

For more information on the program, and how to apply, visit

www.sigmaxi.org/programs/giar

Raymond Davis Scholarship

This scholarship is given to an advanced level undergraduate or graduate student with an academic and/or research focus in a field related to imaging.

The applicant must be an undergraduate who has completed two academic years of study or a graduate level student, and must be a full-time student at an accredited institution.

A certificate and grant of at least \$1,000 are given to recipients of this award.

One or more awards are made annually, depending

on available funds.

For more information, visit: www.imaging.org/ist/membership/davis.cfm?AwardCode=RS

Wenner-Gren Foundation

A variety of the Foundation's grants support students enrolled in doctoral programs leading to a Ph.D. (or equivalent), including grants for dissertation research.

For more information on specific grants available, the application criteria and application deadlines, visit www.wennergren.org/programs/, or contact the Wenner-Gren Foundation by email: inquiries@wennergren.org

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For more information, contact Dr. Rhonda Bathurst,
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www.sustainablearchaeology.org

Sustainable Archaeology: McMaster
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For more information, contact Dr. Catherine
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Sustainable Archaeology's Mission Statement

Sustainable Archaeology is dedicated to advancing a transformative practice of archaeology that integrates the many forms of the discipline – commercial, academic, avocational – by consolidating the extensively recovered archaeological record from a region of the world and converting that material and contextual data into broadly accessible and integrated digital information. This compiled and converted record will allow for ongoing and innovative research advancing the knowledge, conception, appreciation, and engagement of this compiled and rich archaeological heritage left by the countless previous generations of those who loved, lived, and died in this place, by all those today who draw awareness, meaning, value, and identity from this human heritage.

Upcoming Events and Conferences

Events

March and April meetings of the Ontario Archaeological Society: London Chapter. Second Thursday of each month, Museum of Ontario Archaeology, London.

www.ssc.uwo.ca/assoc/oas/

Conferences

American Association of Physical Anthropologists 83rd Annual Meeting, April 8-12, Calgary, Alberta. <http://physanth.org/annual-meeting/83rd-annual-meeting-2014>

Society for American Archaeology 79th Annual Meeting, April 23-27, Austin, Texas. www.saa.org

Computer Applications & Quantitative Methods in Archaeology Annual Conference, April 22-25, Paris, France. caa2014.sciencesconf.org

Canadian Anthropology Society (CASCA) 2014: “Promising Uncertainties— unsettling the future of anthropological terrain”, April 30-May 3, York University, Toronto, Ontario. casca2014.apps01.yorku.ca

Canadian Archaeological Association Annual Meeting, May 14-18, London, Ontario. canadianarchaeology.com/caa/annual-meeting. Follow on Twitter [@CAA2014ACA](https://twitter.com/CAA2014ACA) and [#CAA2014ACA](https://twitter.com/CAA2014ACA)

Ontario Heritage Conference 2014: “Bridging the Past, Crossing Into the Future”, May 23-25, Cornwall, Ontario. ontarioheritageconference.ca

North American Theoretical Archaeology Group (TAG): “Convergence”, May 23-25, University of Illinois at Urbana-

Champaign, Illinois. www.tag-usa.org

Digital Humanities 2014, July 8-12, Lausanne, Switzerland. dh2014.org

Ontario Archaeological Association 2014 Symposium, October 24-26, Peterborough, Ontario. www.ontarioarchaeology.on.ca/ for updates, or follow on Twitter: [@OnArchSoc](https://twitter.com/OnArchSoc)

Conference on Cultural Heritage and New Technologies: “Urban Archaeology”, November 3-5, Vienna, Austria.

www.stadtarchaeologie.at/

Chacmool 2014: “Breaking Barriers”, November 7-9, University of Calgary, Calgary, Alberta.

arky.ucalgary.ca/chacmool2014/

Call for abstracts: deadline is March 21