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2018

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ARCHAEOLOGICAL SOCIETY OF ALBERTA

50
CALGARY
CENTRE
years

APRIL LECTURE AND AGM

WEDNESDAY APRIL 18, 2018

UNIVERSITY OF CALGARY

TOM OLIVER ROOM, ES 162, 7:30pm

Using Reality Capture Technologies to Monitor the Brooks Aqueduct
National/Provincial Historic Site

Dr. Peter Dawson, Department of Anthropology and Archaeology, University
of Calgary

Abstract: The Brooks Aqueduct National/Provincial Historic site contains the remains of a 3.2-kilometer-long reinforced concrete flume designed to carry water east from Lake Newell, in eastern Alberta. It was built between 1912 and 1914 and it's located to the northeast of the lake and just east of the town of Brooks. The site is significant due to its civil engineering achievement and because of its unusual design, materials, sheer size and scale, built in a time when the use of reinforced concrete construction was still in its early stages.

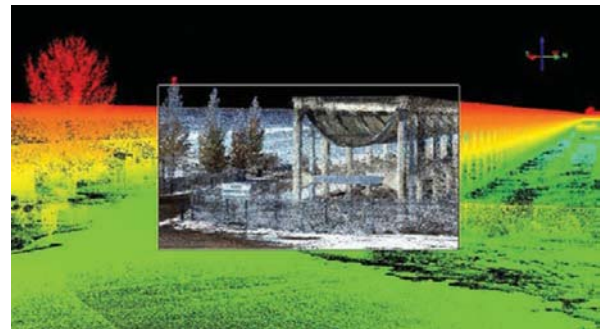


Photo Credit: Dr. Peter Dawson

During its operating life, the Brooks Aqueduct suffered from the effects of a series of design flaws. The removal of a 122m section to permit the construction of Range Road 142 has also had deleterious effects in the structure. In response to these deficiencies, the Province has engaged in numerous interventions to ensure the preservation of the Aqueduct.

Reality capture technologies, such as terrestrial and airborne LIDAR, provide a means for a more thorough monitoring and tracking of past interventions and their success, as well as identifying present and future areas of concern. A particularly innovative and important component of the project is the proposed use of Change Detection Analysis to monitor processes that may be negatively impacting the Brooks Aqueduct. Specifically, the digital data from the Brooks Aqueduct will be used to explore how Change Detection Analysis can accurately identify and track natural and human-related processes, as well as their potential impacts on specific sections of the structure over time. In this presentation, I explore how we are using 3D digital data to develop advanced heritage monitoring programs for historic structures and sites in the Province of Alberta, with specific reference to the Brooks Aqueduct Project.



Bio: Dr. Peter Dawson is a Professor in the Department of Anthropology and Archaeology at the University of Calgary. His research interests include digital archaeology, arctic archaeology, and heritage at risk. Dawson and his research team helped to pioneer the use of reality capture technologies like 3D laser scanning in the Canadian Arctic, where many heritage sites are at risk due to climate change. He has recently begun working with Alberta Culture and Tourism to digitally preserve heritage sites in the

Province of Alberta. Dawson's research is currently funded through the Andrew W. Mellon Foundation and Parks Canada's National Cost Sharing Program. He and his research group have recently completed an open access digital archive/repository of Alberta heritage sites that is hosted by the Taylor Family Digital Library.

March Lecture Review:



Our March lecture was put on by Dr. Max Friesen from the University of Toronto. Dr. Friesen has worked in the Arctic since 1986 and is interested in the interaction between social organization, economy, architecture and the effects of erosion on coastal sites. He has recently been working on the Arctic Cultural Heritage At Risk Project (Arctic CHAR) which works to understand and mitigate the destruction of archaeological sites due to climate related change. His work has recently been focused in the Mackenzie Delta which is experiencing the worst effects of climate related change anywhere in the Arctic. This project has involved GIS modeling of threats to archaeological sites, survey, and excavation. This excavation took place at Kuukpak where 2 cruciform houses were uncovered. Kuukpak was occupied between AD 1400- 1870 and was a major beluga hunting village. This site is unique because of its size as it spans over 1 km and at its peak is projected to have contained more than 40 large houses. The houses

were beautifully preserved and Dr. Friesen's many photos showed the individual building phases of the homes as well as their distinct cross-like design which were consistent with descriptions of multi-family cruciform houses provided in the ethnographic sources.

T-Shirt Contest:

ASA T-Shirt Competition

Looking for a way to express your love for Alberta archaeology? We invite all members to submit artwork/design (including "Archaeological Society of Alberta – Calgary Centre") for our new t-shirt. All submissions will be considered and the winner will be chosen through a vote by the membership. Winner will receive a free ASA membership next year. Please email submissions to: info@arkycalgary.com.



INTRODUCTION TO FLINTKNAPPING AND STONE TOOLS WORKSHOP 2018

Back for the seventh consecutive year, we are offering the workshop over two days at the **Nose Creek Valley Museum in Airdrie**.

On Saturday **April 14th** we will be offering an **Introduction to Flintknapping**. This course will be beneficial to those new to making stone tools, as well as those just looking for a little extra practice and a few pointers. A basic introduction to techniques involved in the production of chipped stone tools will include: platform preparation, hard hammer and soft hammer percussion and pressure flaking. **The course runs 9 am to 3 pm, at the Nose Creek Valley Museum in Airdrie.**

On Sunday **April 15th**, we will be holding a full day **Knap-In**. This course is aimed at those with a strong desire to improve their existing flintknapping and prehistoric technology skills. The workshop will take the form of instructor led discussion and demonstration on platform preparation and thinning, followed by the numerous techniques utilized in the hafting of arrowheads and spear points to tool shafts (notching, raw hide, sinew, hide glue etc..) As in previous Knap-Ins, we encourage participants to bring their own projects to share experience, skills, and techniques with others. Projects in the past have included slate knives, multi component tools, fluting and the fletching of arrows. **The course runs 9 am to 3 pm at the Nose Creek Valley Museum in Airdrie.** Please note, that in order to take the second day, you must have taken the first day or an equivalent course (experience with flintknapping is required).

\$35.00 for one day / \$50.00 for both days

*Special one day discount rate for students (\$30.00)

Includes instructions, material and lunch. Space is limited!

Priority will be given to Archaeological Society Members.

Please contact Brent Murphy for more information or to register at info@arkycalgary.com



STONES and BONES WEEKEND

The Archaeological Society of Alberta - Calgary Centre
is hosting an **artifact and fossil identification** weekend at the

Nose Creek Valley Museum
1701 Main St S.W., Airdrie, AB

Saturday, April 14, 2018 - 10 am to 4 pm
Sunday, April 15, 2018 - 10 am to 3 pm

**This Family Fun Event is
FREE of CHARGE**

Bring your **arrowheads** and **other artifacts**, as well as any **fossils** or **bones** you may have for identification. Archaeologists and a Paleontologist from the **Royal Alberta Museum** will be available to discuss your discoveries.

www.arkycalgary.com
www.nosecreekvalleymuseum.com

Partial funding for this event has been provided through the Alberta Historical Resources Foundation and the Alberta Gaming and Liquor Commission.

ASA Provincial AGM & Volunteers



Amiskwaciwâskahikan Edmonton from Time Immemorial

2018 Archaeological Society of Alberta
Annual General Meeting and Conference



The conference will explore the rich history of Edmonton and area, highlighting major themes from the last glacial maximum to modern Indigenous perspectives. The conference will run from April 26th to 29th at The Lodge Snow Valley, full of amazing speakers, social events, public lectures, and field trips!

Registration is also open for the conference, so please visit our website to sign up and to find more information. Registration for the full weekend is only \$60, and students / low income registration is \$30. Banquet tickets are \$55.

Schedule:

Thursday Evening: Opening Reception

Friday: Submitted Talks

Friday Evening: Public Lecture - Todd Kristensen

Saturday: Edmonton History talks, including Elder Jerry Saddleback, Chris Jass, Alwynne Beaudoin, Gerry Oetelaar, Nathalie Kermaal, Chief Calvin Bruneau, and more

Saturday Evening: Banquet with Keynote Nancy Saxberg

Sunday: Field Trip - Guided Walking Tour of Strathcona Site



Visit our website for more info and to register
<https://sites.google.com/view/2018asaconference>



Come help us out (and get free admission to the conference!)

The Archaeological Society of Alberta: Edmonton Centre (ASAEC) is hosting the annual Archaeological Society of Alberta AGM and Conference on Thursday, April 26th through Sunday, April 29th, 2018. The Conference is being held at The Lodge at Snow Valley in one of Edmonton's gorgeous ravines.

Volunteers are needed during the day Friday and Saturday to help with registration, posters, and set up/take down. Additional volunteers will be needed to help with the Public Talk on Friday night (located at the Telus Centre on the University of Alberta Campus) and the Banquet Saturday night (located at The Lodge at Snow Valley).

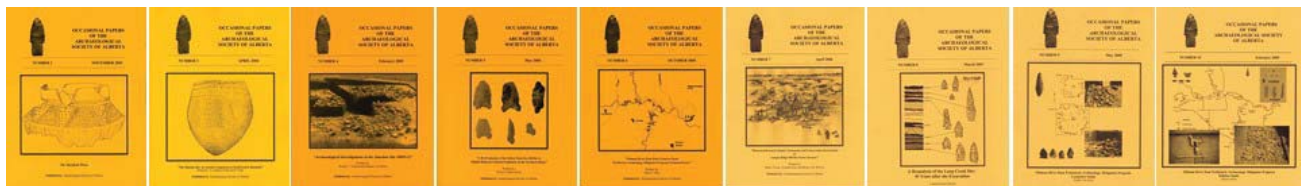
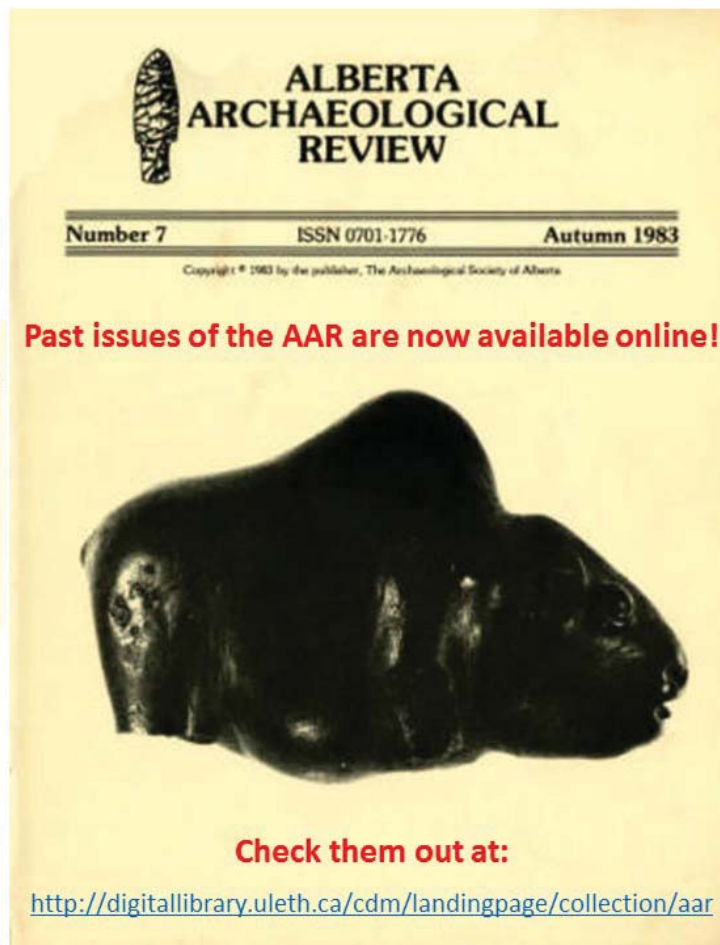
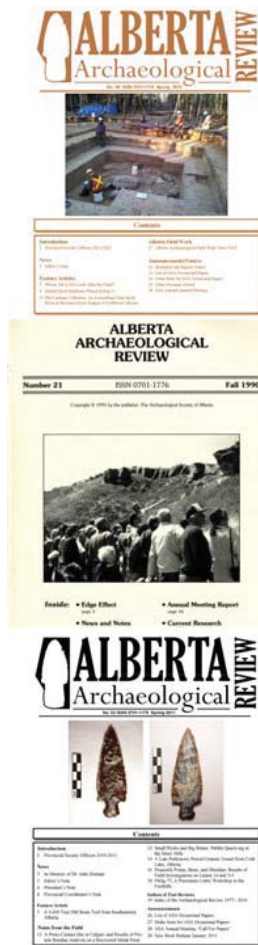
Volunteers who undertake eight hours of time or more are eligible for free admission to the Conference. Volunteers who are able to help out for less than eight hours are eligible for the low income rate of admission.

Volunteer Orientation to be held on Saturday, April 21st, 2018, 1:00pm at the Institute of Prairie Archaeology (HUB Mall, University of Alberta Campus).

Orientation will be held the week prior to the Conference and we will be preparing the Conference packages at this time. Come out and socialize while we get ready for the week ahead and get some hours of volunteering in towards free attendance to the Conference!

Contact asa.agm.2018@gmail.com with any questions you may have and to sign up to volunteer with us!!

Alberta Archaeological Review & Occasional Papers



Occasional Papers of the Archaeological Society of Alberta Bundle/new pricing!*

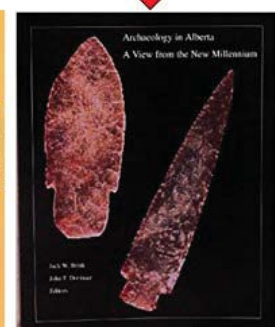
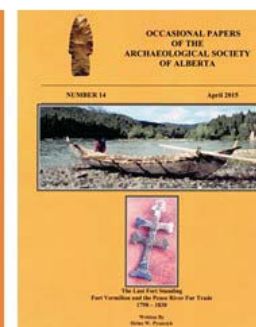
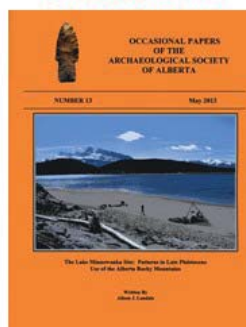
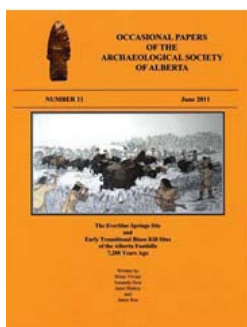
Volume 2 – 10 Bundle \$50 or \$10 each (Volume 1-SOLD OUT)

Volume 11 – 14 Bundle \$75, Volume 11 – 13 \$ 20 each and Volume 14 \$35

Purchase a bundle and receive a complimentary copy of:

Archaeology in Alberta: A View from the New Millennium (regular \$10)!

while supplies last



Archaeological Society of Alberta - Lethbridge Center
Volunteer Event

STONE CIRCLE MAPPING



ASA - Lethbridge Center requires volunteers to aid in the mapping and recording of approximately 50 stone circles at a previously recorded site along the Little Bow River. Dr. Peter Dawson from the University of Calgary will be joining and demonstrating the use of drones with multispectral imaging to map the site and help locate other rings that may be hidden.



MAY 26-27, 2018 | 8AM-5PM

Meet @ Little Bow Reservoir Day Use Area



Archaeological Society of Alberta - Lethbridge Center Volunteer Event

We will meet daily at Little Bow Reservoir Day Use Area and then carpool from there to the site. The site is about 8km from the day use area. Lunch will not be provided so please bring a lunch and pack enough water for the day.

Directions from Coaldale to Little Bow Reservoir:

- Turn north off Highway 3 onto Highway 845
- Follow 845 for approximately 52.5km
- Turn left at blue sign for Little Bow Reservoir then park in Day Use area



Accommodations:

There are provincial campgrounds at Little Bow Reservoir and Travers reservoir. These cost \$20-22/night and are not serviced (No Power/Sewer). There are many options for hotels in Coaldale and Lethbridge. The site is approximately 40min from Coaldale and 55min from Lethbridge.

*Please note that you must be an ASA member to attend. If you haven't bought your membership yet, the cost is \$10 for students and \$20 for individuals or families. Please email arky.lethbridge@gmail.com to RSVP



MAY 26-27, 2018 | 8AM-5PM

Meet @ Little Bow Reservoir Day Use Area



Upcoming Events, Lectures and Conferences:

Archaeological Society of Alberta Cluny Fortified Village Site Field Trip Saturday, June 16th, 2018



On Saturday, June 16th, 2018, the University of Calgary Public Archaeology Program will be offering a tour of the famous Cluny Fortified Village Site to ASA members.

We will meet at 10:00 AM in the parking lot at Blackfoot Crossing Historical Park. If we receive a high number of registrations, we will work with the staff of the Interpretive Centre to see if they will open it for us (\$12.00 + GST entrance fee). After touring the museum, we will walk down to the Cluny site where Dr. Dale Walde will lead us in a guided tour and speak about the results of the recent excavations. The site tour will take one hour; if the museum and Interpretive Centre tour is added, it will contribute an additional two hours.

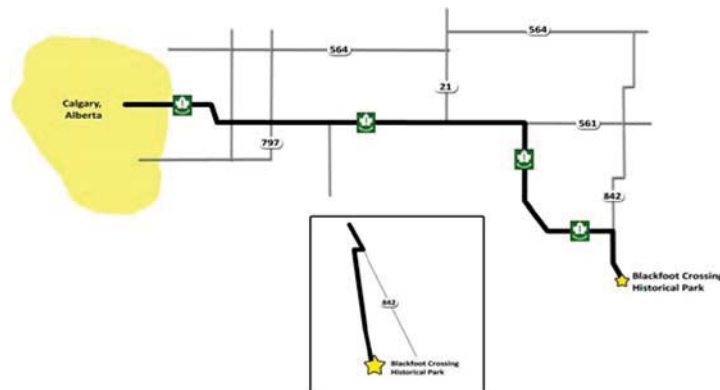


Participants are encouraged to bring their own lunch, water and water bottles, sun screen, bug repellent, hats, and should wear weather appropriate clothing. Please check the weather forecast and plan accordingly. There are porta potties on site which may be used by society members. Please note that the walk to the site includes rough terrain and a steep incline.



Aerial photograph by Harrison Boss.

If you are interested in attending, please register through the University of Calgary Public Archaeology Program by emailing pubarky@ucalgary.ca.



The Public Archaeology Program, the Department of Anthropology and Archaeology, and the University of Calgary are not responsible for cancellations as the result of severe weather conditions. Changing weather conditions in the field may require cancellation while at the site. In either case, no refunds of the Blackfoot Crossing Historical Park admission fee or costs relating to travel to the park will be provided.

ARCHAEOLOGICAL SOCIETY OF ALBERTA HEAD-SMASHED-IN BUFFALO JUMP BUS FIELD TRIP



Please join the Archaeological Society on a field trip to the UNESCO World Heritage Site **Head-Smashed-In (HSI) Buffalo Jump** on **Saturday, June 2nd**. Bus will depart from the south end of Calgary at **7:45am**. Expect to be back in Calgary around **5:30pm**. The field trip will include a walking tour of the drive lanes at HSI we encourage wearing sturdy footwear and to dress appropriately for the weather conditions. There is no cost for the field trip thanks to a generous donation from Plains Midstream.

*To register please e-mail: info@arkycalgary.com

The trip is limited to 48 participants and registration will be on a "first registered first served" basis.

Preregistration is required to attend. A wait list will be compiled if necessary.

Once registration is confirmed a map will be provided to the bus meeting place.

**Please note that lunch or water will not be provided.

***We suggest bringing a bag lunch as we will be touring the drive lanes over lunch.