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 Burnaby BC
 Canada V5A 1S6

MEMORANDUM

ATTENTION: Senate

TEL

FROM: Peter Keller, Vice-President, Academic and Provost, and Chair, SCUP

A handwritten signature in black ink, appearing to read "Peter Keller".

RE: Full Program Proposal for the Certificate in Biological Anthropology (SCUP 17-27)

DATE: June 16, 2017

TIME

At its June 14, 2017 meeting, SCUP reviewed and approved the full program proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment, effective Spring 2018.

Motion:

That Senate approve and recommend to the Board of Governors the full program proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment, effective Spring 2018.

c: D. Burley



OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION	Senate Committee on University Priorities	DATE	June 2, 2017
FROM	Gordon Myers, Chair Senate Committee on Undergraduate Studies	PAGES	1/1
RE:	Faculty of Environment (SCUS 17-28a)		

Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of June 1, 2017, gives rise to the following recommendations:

Motion

That SCUP approve and recommend to Senate the Full Program Proposal for the Certificate in Biological Anthropology in the Department of Archaeology within the Faculty of Environment.

The relevant documentation for review by SCUP is attached.



SIMON FRASER UNIVERSITY
ENGAGING THE WORLD

Certificate in Biological Anthropology

Full Program Proposal

May 1, 2017

Department of Archaeology

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1. Credential to be awarded

Certificate in Biological Anthropology

2. Location

Burnaby campus

3. Department(s), School(s), Faculty(ies) offering program

Department of Archaeology

Founded in 1971, the Department of Archaeology has concentrated expertise in three areas – Archaeological and Environmental Science, First Nations Heritage and Resource Management, and Biological Anthropology, including Forensic sciences. We offer undergraduate BA honours, major, minor and joint major programs, an undergraduate Certificate in Cultural Resource Management, MA and PhD degrees, as well as a Professional MA in Heritage Resource Management. Housed within the Department are the SFU Museum of Archaeology and Ethnology, SFU Archaeology Press, the Human Evolutionary Studies Program, the Centre for Forensic Research (with Criminology), the joint SFU/Jilin University Centre for Bioarchaeology, and the SSHRC Major Collaborative Research Initiative on Intellectual Property Issues in Cultural Heritage (IPinCH). The Department has specialized laboratories dedicated to zooarchaeology, paleobotany, stable isotopes, geoarchaeology, geochemistry, human osteology, ancient DNA and forensic DNA.

4. Anticipated program start date

Spring 2018

5. Description of proposal program

5.1. Aims, goals and/or objectives

Biological anthropology (also known as “physical anthropology”) is the study of the biology and behaviour of humans and other primates. An evolutionary science with close links to Biology and Archaeology, it has five main areas of inquiry: paleoanthropology, primatology, bioarchaeology, human biology, and forensic anthropology. At SFU, students in Archaeology and other departments may have a significant concentration in biological anthropology courses that is not expressed in their transcripts. The Department of Archaeology has a strong group of faculty members with expertise in biological anthropology. Consequently, SFU students from various departments enroll in the biological anthropology courses offered by this group of faculty mem-

bers. The Department of Archaeology proposes a certificate in biological anthropology to be housed at the Burnaby campus, tailored to the educational and experiential needs of archaeology students and other students in the university who would like to see their concentration of studies in biological anthropology recognized.

5.2. Mandate and strategic plan

The certificate in biological anthropology is congruent with the SFU vision statement in that it will provide a multidisciplinary and holistic understanding of the biological and social dimensions of humans. This will allow students to be life-ready learners, to develop research skills for the benefit of society and adapt them to develop healthier and more equal communities. Additionally, the certificate will support the vision of the Faculty of the Environment by focusing on the interactions of humans and their environment—both the effects of the physical and social environment on the biology and behaviour of humans in the present and past, and the effects of human behaviour on the environment in the past and present. This will help to build an interdisciplinary approach to environmental issues.

5.3. Target audience

The target audience is students who seek recognition of a concentration of courses in biological anthropology. This may include students majoring in Archaeology, Anthropology, Criminology, Health Sciences, Kinesiology, Psychology, and Biology. Students working toward a joint major in Archaeology/Anthropology may be particularly inclined to pursue this certificate. The certificate will likely be sought by students seeking graduate opportunities in the field of biological anthropology, but also employment with government, museums, forensic consulting firms, conservation groups, international development agencies, and human rights organizations.

5.4. Content and summary of requirements for graduation

Core requirements are a minimum of 15 credits in general biology, human evolution, human skeletal anatomy, and quantitative methods. Additional coursework is a minimum of 12 credits with a focus on primatology, bioarchaeology, paleoanthropology, paleopathology and/or forensic anthropology.

5.5. Delivery methods

The program will be delivered face-to-face in the classroom.

5.6. Linkages between program outcomes and curriculum design

As well as a basic introduction to human evolution (through Arch 131:Human Origins) and a more advanced knowledge of the human skeleton (Arch 373:Human Osteology), we also emphasize basic introductory biology (through BISC 101 or 102), and a relevant upper level undergraduate quantitative/statistics course. We do not require any biology for our current undergraduate archaeology majors, and a statistics option is currently only required of our honours majors, so the certificate is distinctive from our major/minor requirements.

Four further “elective” courses are required for the certificate, selected from a broad list of courses drawn from the Departments of Archaeology, Biology, , Biomedical Physiology and Kinesiology, Criminology, Earth Sciences, Geography, Health Sciences, Molecular Biology, Sociology and Anthropology, and Psychology. Our intention is to encourage our majors who wish to attain the certificate to take one or more courses in another department related to the human-biological relationship. We also want to enable majors in related disciplines to undertake the certificate with some credit given for courses taken in their home department.

All the departments listed above have been consulted about the inclusion of their courses in this certificate. In all cases their responses were positive and in several cases the departments indicated which of their courses would be most appropriate. Details of consultations with the two most closely related programs, Anthropology and Criminology, are provided in Appendix B.

5.7. Distinctive characteristics

At SFU undergraduate students who currently focus on biological anthropology are not formally recognized. In most North American universities biological anthropology is taught through the anthropology department. For historical reasons, the Department of Sociology and Anthropology at SFU does not offer training in biological anthropology. Instead, biological anthropology courses are taught by members of the Department of Archaeology and the Faculty of Health Sciences. Archaeology majors as well as the other targeted students who have majored in other areas, would benefit from formal recognition of a concentration of studies in biological anthropology offered by the Department of Archaeology.

5.8. Anticipated completion time

The certificate could comfortably be completed in 2 to 4 terms, given the minimum total of 27 credits required and availability of courses, but it is in-

tended to integrate with a student specialization (e.g., Archaeology major, Biology major etc.) that they would undertake throughout their undergraduate degree.

5.9. Enrolment plan for the length of the program

We anticipate that 12-15 students would enroll in the program each year. We will encourage students to declare the certificate by the beginning of their third year, in order to avoid any last-minute trouble fulfilling its requirements. The certificate will be advertised through our lower division courses, and through student advisors in relevant departments.

5.10. Student evaluation

As per general regulations for undergraduate programs for the University and Faculty of the Environment.

5.11. Faculty appointments

The program can be offered using current staffing levels and course offerings.

5.12. Faculty members

The Department of Archaeology has a strong contingent of Biological Anthropologists who will teach the core ARCH courses and upper level ARCH and HSCI electives for this program. These include:

Dr. Hugo Cardoso, Assistant Professor (Human Osteology, Growth and Health)

Dr. Mark Collard, Professor (CRC in Human Evolutionary Studies)

Dr. Birute Galdikas, Professor (Primateology)

Dr. Deborah Merrett, Adjunct Faculty Member (Human Osteology)

Dr. Pablo Nepomnaschy, Assistant Professor (Environment and Human Health)

Dr. Dennis Sandgathe, Lecturer and Adjunct Faculty Member (Paleoanthropology/Paleolithic Archaeology)

Dr. Dongya Yang, Professor (Molecular Bioarchaeology)

This group of researchers and instructors are also involved in a range of ongoing research projects in which senior undergraduate students are often

given the opportunity to participate. In recent years, these have ranged from excavations at Neanderthal sites in France, and analyses of human remains from cemetery sites in Portugal to on-campus osteological analyses of archaeological skeletal remains and participation in the SFU Human Evolutionary Studies Program. In many cases involvement in these research projects has been influential in student's pursuit of honours degrees and graduate studies.

5.13. Program assessment

All academic units and programs at SFU are reviewed every seventh year.

5.14. Related programs

A Certificate in Forensic Studies is offered by the School of Criminology, which includes five of the courses included in the certificate in biological anthropology (ARCH 373, 383, 442, 452 and CRIM 357). The overlap, however, would not prevent students from completing both credentials, as both programs provide a large number of course options, and none of the common courses are *required* for *both* certificates. The two credentials are also quite distinct from one another. The forensics certificate is focused on developing skills associated with the detection of crime and the determination of cause and other circumstances of human death. The biological anthropology certificate has a much broader focus, beyond the forensic applications of biological anthropology. Instead the Certificate in Biological Anthropology would provide student with a depth of education into the health and evolution of humans and other primates. Indeed, a student who completed both certificates would be exceptionally well qualified to pursue a career or graduate studies in Forensic Anthropology.

In British Columbia students can take biological anthropology undergraduate courses in anthropology departments at UBC, UVic, UNBC, and VIU¹. The creation of an SFU Certificate of Biological Anthropology for our undergraduates would both recognize their specialization, and also create clarity for employers/graduate schools given that their degree will not necessarily be in anthropology.

5.15. Evidence of student interest

Student interest in having some sort of formal recognition of their education in Biological Anthropology is long standing in the Department of Archaeology at SFU. Over the last twenty years undergraduate students (at Depart-

¹ <http://www.capa-acap.net/resources/career-development/physical-anthropology-programs-canada>

ment retreats and other meetings) have repeatedly expressed the need for creating a 'stream' or certificate that would recognize, what for some students is the primary emphasis of their upper level undergraduate program. A recent (March 2017) poll of our undergraduate students indicates that this desire remains strong, with 19% (40 of 214 polled) of students in our lower division courses and 49% (40 of 82 polled) of students in upper division ARCH courses expressing interest in the credential. These values are consistent with the number of Honours Theses that have been completed in the department over the last 10 years, more than a third of which (15 of 37) have been on topics related to Biological Anthropology. Conservatively, we would expect to have 12 to 15 students per year complete the Certificate in Biological Anthropology. This is based on the level of student interest amongst students currently enrolled in archaeology courses and the potential for several undergraduates in other programs, particularly Criminology, Health Sciences, as well as Sociology and Anthropology to also be interested.

5.16. Benefits of earning the credential

Students who earn the Certificate in conjunction with a Major in a related discipline will be well prepared for graduate studies in the field of biological anthropology in departments of anthropology, archaeology, genetics, health sciences, biology, and zoology, but may also seek admission to medical school, and employment within a variety of government and private organizations. This includes government labs and research institutes, health and medical care institutions, museums, national and international conservation groups, zoos, international development agencies, human rights organizations, forensic and archaeological consulting firms and other private consulting businesses.

5.17. Resources

No new resources will be needed to offer the certificate. Students will enroll in courses already offered on a regular basis.

6. Contacts

Robert Muir, Undergraduate Program Chair, Department of Archaeology.
778.782.6773. bmuir@sfu.ca

Chris Papianni, Manager, Academic and Administrative Services, Department of Archaeology. 778.782.4687 papaiann@sfu.ca

Appendix A:
University Calendar Listing

SFU DEPARTMENT OF ARCHAEOLOGY
CERTIFICATE IN BIOLOGICAL ANTHROPOLOGY

Students complete at least 27 units as set out below, with a minimum 2.25 GPA calculated on grades in the certificate program courses.

Core Requirements (minimum 24 units):

All of:

ARCH 131 - Human Origins (3)

ARCH 373 - Human Osteology (5)*

* With a minimum grade of B.

And one of:

BISC 101 - General Biology (4)

BISC 102 - General Biology (4)

And one of:

ARCH 376 - Quantitative Methods in Archaeology (5)

STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

And three of:

ARCH 322 - Special Topics in Biological Anthropology I (3)

ARCH 323 - Special Topics in Biological Anthropology II (3)

ARCH 344 - Primate Behaviour (3)

ARCH 383 - Molecular Bioarchaeology (3)

ARCH 385 - Paleoanthropology (5)

ARCH 452 - Introduction to Paleopathology (5)

Additional Course (minimum 3 units):

Students must complete **one** additional course from the list below:

ARCH 322 - Special Topics in Biological Anthropology I (3)**

ARCH 323 - Special Topics in Biological Anthropology II (3)**

ARCH 344 - Primate Behaviour (3)**

ARCH 383 - Molecular Bioarchaeology (3)**

ARCH 385 - Paleoanthropology (5)**
ARCH 435 - Field Work Practicum (3,4,5,6)*
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)**
BISC 202 - Genetics (3)
BISC 300 - Evolution (3)
BISC 302W - Genetic Analysis (3)
BISC 316 - Vertebrate Biology (4)
BISC 333 - Developmental Biology (3)
BISC 410 - Behavioural Ecology (3)
BISC 422 - Population Genetics (3)
BISC 440/440W - Biodiversity (3)
BISC 441 - Evolution of Health and Disease (3)
BPK 105 - Fundamentals of Human Structure and Function (3)
BPK 110 - Human Nutrition: Current Issues (3)
BPK 303 - Kinanthropometry (3)
BPK 326 - Functional Anatomy (4)
BPK 375 - Human Growth and Development (3)
CRIM 357 - Forensic Anatomy (3)
EASC 310W - Paleontology (3)
GEOG 386 - Health Geography (4)
HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)
HSCI 324 - Human Population Genetics and Evolution (3)
MBB 222 - Molecular Biology and Biochemistry (3)
MBB 231 - Cellular Biology and Biochemistry (3)
MBB 462 - Human Genomics (3)
PSYC 280 - Introduction to Biological Psychology (3)
PSYC 385 - Evolution and Psychology (3)
SA 218 - Illness, Culture and Society (4)
SA 318 - The Anthropology of Medicine (4)
SA 418 - International Health: Global Policies and Local Realities (4)

** If not counted above.

* When topic is applicable to biological anthropology.

Students must complete a minimum of 12 units at Simon Fraser University. Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.

Certificate in Biological Anthropology

Consultation Record

Record of Consultation with Anthropology

From: Stacy Pigg <slpigg@gmail.com>
To: Bob Muir <bmuir@sfu.ca>
Sent: Mon, 14 Nov 2016 11:57:02 -0800 (PST)
Subject: Re: Certificate in Biological Anthropology

Dear Bob,

It's wonderful that Archeology is putting this certificate forward -- biological anthropology has tended to get lost in division between our two departments. I've had students in my own classes that were in the unofficial specialization you describe in the letter of intent.

SA has a number of courses that address human/biology/environment interactions -- I've included a full list at the end of this message.

The courses that are *most relevant* to this certificate are our *3 medical anthropology* courses:

SA 218, Illness Culture & Society (SA)
SA 318, Anthropology of Medicine (A)
SA 418, International Health: Global Policies & Local Realities (SA)

*SA asks that you add them to your list of electives, as they are equivalent to Geog 386 in providing a clear framework addressing health/body/biology from the perspective of social systems. *The prerequisite for all these courses is SA 101 (intro to Anthropology), SA 150 (Intro to Sociology) or SA 201 (Anthropology and contemporary life -- our 200 level theory course). I believe Arch majors are required to take SA 101, so certificate students would have easy access to these courses.

In your letter of intent, you could mention the *Archeo/Anthro joint major*, which creates a pathway for students to get a very solid, balanced (and in Canada, unique) training in *biocultural medical anthropology* (if students choose medical anthropology courses for their upper-level anthro electives).

<https://www.sfu.ca/sociology-anthropology/undergrad-studies/Academic%20Programs/anth-arch-joint-major.html>

*Would Archeo be interested in mapping out what this path would look like, so that both our departments could include this in our advising materials? *I

doubt that there will be enough students to make it worth formalizing this through SCUS but we can nonetheless make it easier for students to see how they could do this.

Please get in touch with me if there is more to discuss, especially if you see problems in adding our 3 courses to the electives list. In addition to being the UPC Chair in our Dept, I am the medical anthropologist who teaches those three courses (and I edited a medical anthropology journal for 6 years) so I "get" the certificate and how it is unlike and yet connected to what we do in our dept. In the longer run, it would be good to bring the SA, FHS, GEOG, and ARCH cluster together around something like medical anthropology.

Stacy

Here are all the SA courses with a human/biological environment element. Please note that the courses on aging may also be pertinent to your certificate. I excluded them because unlike the medical anthropology courses they do not include explicit attention to the concept of biocultural interaction.

SA 319, Culture, Ethnicity & Aging (A)
SA 420, Sociology of Aging (S) (taught by a gerontologist, online)

SA 326, Ecology and Social Thought (S)
SA 364, Urban Communities and Cultures (A)
SA 371, The Environment and Society (SA)

On Sat, Nov 12, 2016 at 5:40 PM, Bob Muir <bmuir@sfu.ca> wrote:

> From: Bob Muir <bmuir@sfu.ca>
> To: pigg@sfu.ca
> Sent: Mon, 07 Nov 2016 13:47:10 -0800 (PST)
> Subject: Certificate in Biological Anthropology
>
> Dear Dr Pigg,
>
> The Department of Archaeology has developed a draft proposal for an
> undergraduate Certificate in Biological Anthropology. We are in the
> process of finalizing our Notice of Intent and a preliminary draft of the
> program requirements (both attached), but before submission we are hoping
> to get some feedback for your department. In particular, we are wondering
> if you believe any of the SA courses offered by your program might be

- > appropriate to incorporate into this certificate.
- >
- > Any feedback you can provide will be much appreciated.
- >
- > Sincerely,
- >
- > Bob
- >
- > Robert J. Muir, PhD
- > Senior Lecturer
- > Undergraduate Program Chair
- > Department of Archaeology
- > Simon Fraser University
- > 8888 University Drive
- > Burnaby, British Columbia
- > Canada, V5A 1S6.
- > Telephone 778 782 6773
- > Facsimilie 778 782 5666
- >
- > <http://www.sfu.ca/archaeology/faculty/muir.html>
- >
- > I respectfully acknowledge that SFU is on unceded Tsleil-Waututh,
- > Skwxwú7mesh and Musqueam lands.

Record of Consultation with Criminology

From: David MacAlister <dmacalis@sfu.ca>
To: Bob Muir <bmuir@sfu.ca>
Sent: Fri, 31 Mar 2017 16:29:21 -0700 (PDT)
Subject: Re: Certificate in Biological Anthropology

Hi Bob,

As far as I can tell the certificates can co-exist. If students really want both there seems to be enough flexibility that they can do both without the overlap being an issue. I spoke to our forensics people (Lynne Bell and Gail Anderson) and they are fine with it.

Best wishes,

David MacAlister

David MacAlister
Associate Professor and Director
School of Criminology
Simon Fraser University
8888 University Drive | Burnaby, BC | V5A 1S6
tel: 778.782.4305 fax: 778.782.4140 cell: 604.396.7772

From: "Bob Muir" <bmuir@sfu.ca>
To: "David Macalister" <david_macalister@sfu.ca>
Sent: Monday, March 27, 2017 12:34:56 PM
Subject: Re: Certificate in Biological Anthropology

Dear David,

The Department of Archaeology's Notice of Intent to create a Certificate in Biological Anthropology was approved by the Senate Committee on University Priorities last week. One of the requests made by the committee was that prior to submitting the full proposal, Archaeology consult with Criminology with respect to the course overlap between our proposed certificate program and your department's Forensics Certificate.

As currently proposed, our certificate program (attached) includes five course that are also listed as electives for the Forensics Certificate. These are:

ARCH 373 - Human Osteology (5)
ARCH 383 - Molecular Bioarchaeology (3)
ARCH 442 - Forensic Anthropology (5)
ARCH 452 - Introduction to Paleopathology (5)
CRIM 357 - Forensic Anatomy (3)

The potential problem is that students can not apply a given course to more than one certificate program. However, our position is that despite the overlap it would still be possible for a student to complete both certificates, as there is enough flexibility in both programs to avoid conflicts.

Any feedback you can provide would be much appreciated.

Sincerely,

Bob Muir

Robert J. Muir, PhD
Senior Lecturer
Undergraduate Program Chair
Department of Archaeology

<http://www.sfu.ca/archaeology/faculty/muir.html>

I respectfully acknowledge that SFU is on unceded Tsleil-Waututh, Skwxwú7mesh and Musqueam lands.

From: Sheri Fabian <sfabian@sfu.ca>
To: Bob Muir <bmuir@sfu.ca>
Sent: Mon, 27 Mar 2017 13:42:21 -0700 (PDT)
Subject: Re: Certificate in Biological Anthropology

Hello Bob,

My apologies for not responding to your previous email. I received the same email from our Director and thought that he had responded to you. We don't have any objections to your proposed certificate and the potential overlap with our Forensic Certificate.

Sheri

--

Sheri Fabian, Ph.D.
Senior Lecturer

Associate Director, Undergraduate Programs
Academic Integrity Advisor
School of Criminology, Simon Fraser University
8888 University Drive, Burnaby, B.C. V5A 1S6
Office: Saywell Hall (ASSC1) 10330
Phone: 778 782-8136
Email: sfabian@sfu.ca

I respectfully acknowledge SFU is on unceded Coast Salish Territory, the traditional territories of the Musqueam, Squamish and Tsleil-Waututh Nations.

From: "Bob Muir" <bmuir@sfu.ca>
To: "Sheri Fabian" <sfabian@sfu.ca>
Sent: Monday, March 27, 2017 12:36:59 PM
Subject: Re: Certificate in Biological Anthropology

Dear Dr Fabian,

The Department of Archaeology's Notice of Intent to create a Certificate in Biological Anthropology was approved by the Senate Committee on University Priorities last week. One of the requests made by the committee was that prior to submitting the full proposal, Archaeology consult with Criminology with respect to the course overlap between our proposed certificate program and your department's Forensics Certificate.

As currently proposed, our certificate program (attached) includes five course that are also listed as electives for the Forensics Certificate. These are:

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The potential problem is that students can not apply a given course to more than one certificate program. However, our position is that despite the overlap it would still be possible for a student to complete both certificates, as there is enough flexibility in both programs to avoid conflicts.

Any feedback you can provide would be much appreciated.

Sincerely,

Bob Muir

Robert J. Muir, PhD
Senior Lecturer
Undergraduate Program Chair
Department of Archaeology

<http://www.sfu.ca/archaeology/faculty/muir.html>

From: "Sheri Fabian" <sfabian@sfu.ca>
To: "Ross Jamieson" <rossjami@sfu.ca>
Sent: Thursday, February 4, 2016 11:06:10 AM
Subject: Re: archaeology bioanthropology certificate

Hi Ross,

This is to confirm Crim has no issues with including 357 as an option. Thanks for letting us take a look.

Sheri

--

Sheri Fabian, Ph.D.
Senior Lecturer
Associate Director, Undergraduate Programs
Academic Integrity Advisor
School of Criminology, Simon Fraser University
8888 University Drive, Burnaby, B.C. V5A 1S6
Office: Saywell Hall (ASSC1) 10330
Phone: 778 782-8136
Email: sfabian@sfu.ca

From: "Ross Jamieson" <rossjami@sfu.ca>
To: "Sheri Fabian" <sfabian@sfu.ca>
Sent: Wednesday, January 27, 2016 11:58:03 AM
Subject: archaeology bioanthropology certificate

Hi Sheri,

I wanted to let you know that Archaeology is now creating a certificate in bioanthropology. We now have a draft of the certificate, and wanted to informally circulate it to other departments if we list their courses as part of the certificate.

For Criminology we have listed CRIM357 as one of the further options in the "take a few of" section at the end.

I am attaching the certificate draft. If you could take a look over the next week or so, and just get back to me with any concerns or questions from your department, that would be great.

Thanks so much,
Ross

Ross W. Jamieson

Associate Professor, Archaeology, Simon Fraser University

Burnaby, BC, Canada V5A 1S6

tel. 778.782.3087

rossjami@sfu.ca

skype ross.jamieson42

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