



NEWSLETTER

of the

ARCHAEOLOGICAL GEOLOGY DIVISION

Geological Society of America

Volume 30, Number 1

July, 2008



EARLY BIRD REGISTRATION CLOSING!

2008 GSA ANNUAL MEETING: October 5-9, Houston, TX

Registration: EARLY BIRD DEADLINE July 14, REGULAR DEADLINE Sep. 2

We have had wonderful representation of the Archaeological Geology Division in the last few Annual Meetings, and would like to continue that trend this year. Please consider attending! While the full program is not yet available, abstracts were submitted to the following AGD-sponsored sessions:

T25. Terrestrial Response to Climate Variability during the Medieval Warm Period: Lakes, Tree-Rings, and Human Adaptation *Conveners: David M. Miller, Kenneth D. Adams, Edward R. Cook* The Medieval Warm Period of ~1000 years ago provides an informative example of geomorphic response to rapid climate changes, as well as human adaptations. We encourage studies on the impacts of rapid climate change.

T34. Paleosol Records as Evidences of Environmental Change in Different Time Scales *Conveners: Elizabeth Solleiro-Rebolledo, Sergey Sedov* Paleosols are an important source of paleogeographical, paleoecological, and pedo-archaeological information, which helps us to understand the evolution of the biosphere-geosphere-society interactions in time and the input of paleopedogenic inheritance into the recent pedosphere.

T142. Soils as Components of Archaeological Landscapes *Conveners: Rolfe D. Mandel, E. Arthur Bettis, Vance T. Holliday* The session will address the use of soils in archaeological investigations. Topics will range from how soils can be used to reconstruct archaeological landscapes to how they provide physical and chemical evidence of human occupation.

T143. The Origin of Mima Mounds and Similar Micro-Relief Features: Multidisciplinary Perspectives *Conveners: Donald L. Johnson, Rolfe D. Mandel* The proposed topical session will focus on the origin of Mima mounds and similar micro-relief features. The latest findings from geomorphological, pedological, geoarchaeological, and biological investigations will be presented.

T144. Geochemical and Geoarchaeological Analysis of Shell Middens: Climate, Ecology, and Culture *Conveners: C. Fred T. Andrus, Bernd Schöne* Data derived from shell middens are employed to address diverse topics, including climate change, paleoecology, and site formation processes. This session will facilitate interdisciplinary discussion of this increasingly important approach to understanding human-environment interaction.

T145. From Quaternary Geology and Physical Volcanology to Geoarchaeology and Paleoanthropology: A Memorial to Harold E. Malde *Conveners: Joshua M. Feinberg, Robert Jarrett, Joseph Liddicoat* This interdisciplinary session in memory of Harold Malde encourages papers in Quaternary geology and geomorphology, physical volcanology, geoarchaeology, and environmental geology to provide an opportunity for presentation of new research inspired by Hal's multifaceted career.



To register, visit the Joint Meeting website at <https://www.acsmeetings.org/2008>

**ARCHAEOLOGICAL GEOLOGY DIVISION
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**Minutes: Geological Society of America
Archaeological Geology Division
2007 Business Meeting and Awards Ceremony
Monday, October 29, 2007, Colorado Convention Center
Room 401/402. Meeting convened at 5:45 pm.**

1. Gary Huckleberry, Chair Report

Huckleberry announced that the membership was up significantly in 2007 to 572. The Division has placed an emphasis on recruiting new student members and this increase hopefully reflects that effort. He thanked P. May and J. Meyer for organizing the very successful pre-meeting field trips to western Nebraska and Middle Park, CO. The five AGD sponsored sessions at the current meetings indicate the health of the division and discipline. G. Huckleberry (Arizona) and J. Woodward (Manchester, UK) are the new co-editors of *Geoarchaeology: An International Journal*. There will now be six issues per year, a new cover, and new Editorial Board members; the submission and review process continues to be conducted electronically through Manuscript Central.

2. Andrea Freeman, Vice Chair Report

In 2008 GSA will be meeting jointly with Tri-Societies including the Soil Science Society of America in Houston (Oct. 4-9). There will be an early deadline of December 4th for sessions and field trips. A field trip focusing on the sandy mantle and a session on soils and landscape evolution were proposed. GSA has established a theme for sessions in which CRM and geoarchaeology might fit. There will be an early deadline sometime in June for abstracts this year.

3. Russ Stafford, Secretary/Treasurer Report

As of 9/07 the general division fund total was at \$10,986 including \$1,834.44 in the Richard Hay Travel line item. The Ripp Rapp Archaeological Geology Award fund totaled \$68,894.03, up \$6,932 from 12/06. The Claude Albritton Student Award fund stood at \$27,327.21, up \$1708 from 12/06.

As of 12/31/06 membership in the Division was at 572, an increase of 80 from the previous year.

The election results (in which 14% of membership voted) for division officers were announced:

Andrea Freeman, Chair
Kathleen Nicoll, Vice-Chair
Russ Stafford, Secretary/Treasurer

Those who agreed to run for election and the Nominations Committee, chaired by Catherine Yansa were thanked.

4. G. Huckleberry Turned Over Chair of Meeting to A. Freeman

5. Open Floor for Announcements

Andrea Freeman announced that this is the 30th Anniversary of the AGD and thanked Ripp Rapp for all of his efforts in founding the Division. The 30th Anniversary T-shirt order form was distributed. A \$15 donation is suggested which covers the cost and shipping of the t-shirt as well as a small donation to the Richard Hay award fund. An announcement was made concerning GSA Section contacts. Volunteers are being sought to act as contacts for Section meetings and other business. Another division award that may be of interest to Division members is the History of Geology student award.

Rolf Mandel announced that the next AMQUA meeting would be held at Penn State June 5-8th, 2008. There will be pre- and post-meeting field trips. The meeting theme will be centered on Quaternary ice sheets.

Jen Smith (Newsletter Editor) indicated that news from the membership is always welcome. The T-shirt order form will be included in the next newsletter. The fanny pack thank-you gifts are still available when you make donations.

Andrea Freeman announced that the AGD web site would be revamped and updated during the coming year. Donations for the Hay and Albritton funds were solicited from the audience. One-hundred and ninety-eight dollars were collected for the Albritton fund and \$158 for the Hay fund.

6. Presentation of Awards

Andrea Freeman presented the Division awards:
AGD 30th Anniversary T-Shirt Contest Winner
Chris Lockwood (University of Washington)
Richard Hay Paper/Poster Award

Laura Murphy (University of Kansas), Geoarchaeology of the Burntwood Creek Rockshelter (14RW418), Northwest Kansas

Claude C. Albritton, Jr. Awards

*Cynthia Fadem (Washington University, St. Louis)
Geoarchaeology of the Danilo Bitinj and Pokrovnik Sites,
Dalmatia, Croatia: Paleoclimatic Evidence from Soil Organic
Matter $\delta^{13}C$ Values*

*Katie Adelsberger (Washington University, St. Louis)
Geochemical Characterization of Artifact-Bearing Spring-
Deposited Sediments, Dakhleh Oasis, Western Desert, Egypt*

Rip Rapp Archaeological Geology Award

Norm Herz (Department of Geology, University of Georgia)—Citationists Scott Pike and Erv Garrison
Meeting adjourned at 7:15 pm.

Respectfully submitted:
C. Russell Stafford, AGD Secretary/Treasurer

DIVISION SPONSORED AWARDS

CLAUDE ALBRITTON FUND FOR ARCHAEOLOGICAL GEOLOGY

Under the auspices of the Archaeological Geology Division, family, friends and close associates of Claude C. Albritton, Jr. have formed a memorial fund in his honor at the GSA Foundation (see item in March, 1991 Newsletter). Initially, the fund was set up with a gift of several thousand dollars.

Members of the GSA Archaeological Geology Division, GSA members, and those who knew Claude Albritton are being asked to consider contributing to this fund. The Albritton Fund will provide scholarships and fellowships for graduate students in the earth sciences and archaeology.

Recipients of these awards will be students who have (1) an interest in achieving a M.S. or Ph.D degree in earth sciences or archaeology; (2) an interest in applying earth science methods to archaeological research; and (3) an interest in a career in teaching and academic research. Awards will be given in support of thesis or dissertation research, with emphasis on the field and/or laboratory parts of this research.

Deadline for submission: ~**May 31, 2009**. (Check website for updated information).

RICHARD HAY STUDENT TRAVEL AWARD

The Archaeological Geology Division announces a \$650 travel grant for a student to attend the GSA's annual meeting. The grant is competitive and will be awarded based on the evaluation of the scientific merit of the research topic and the clarity of an expanded abstract for the paper prepared by a student for presentation in the Division's technical session at the meeting.

Deadline for submission: **September 20, 2008**

Submission of applications: Applications for both awards should be sent to archaeologicalgeology@hotmail.com. More information can be found at <http://rock.geosociety.org/arch/>. For further inquiries contact Awards Committee Chair Elizabeth Robertson at liz.robertson@usask.ca. To contribute to the Albritton Fund, send your gift to the GSA Foundation, designating the gift for this award.

OTHER FUNDING OPPORTUNITIES FOR GRADUATE RESEARCH

The **Student Funding Database** maintained by Ellery Frahm lists funding, grants, awards, and studentships for graduate students in geoarchaeology and related fields. The site has a straightforward interface, archive, and RSS feed.

Newsletter readers are also asked to please help to keep this list updated. If your institution has a relevant funding opportunity, please send it to Ellery Frahm at frah0010@umn.edu. Thank you again to all those who have contributed! Visit the database at web.mac.com/elleryfrahm/iWeb/Geoarch/ or do a Google search for "geoarchaeology funding."

FROM THE NEWSLETTER EDITOR

Hello again, I hope the summer is going well for all of you. To those who contributed material for this newsletter, thank you very much. Please consider contributing again, or if you never have before, why not start now? As always, we welcome featured research, and news from the membership, as well as ideas and suggestions for making the newsletter a more valuable resource. Please send any and all to me at jensmith@wustl.edu.

-Jennifer Smith

SOCIETY FOR ARCHAEOLOGICAL SCIENCES

The Society for Archaeological Sciences (S.A.S.) was founded to establish a forum for communication among scholars applying methods from the physical sciences to archaeology and to aid the broader archaeological community in assessing the potentials and problems of those methods. Base membership (including subscription to the SAS Bulletin) is \$20. For membership inquiries, please contact Rob Sternberg, Department of Earth and Environment, Franklin & Marshall College, Lancaster, PA 17604-3003 USA. Phone: (717) 291-4134 Fax: (717) 291-4186 or email: <Rob.Sternberg@FandM.edu>

GEOARCHAEOLOGY: AN INTERNATIONAL JOURNAL

Geoarchaeology: An International Journal is now on the ISI Web of Science Database. On May 1, 2007, Jamie Woodward (University of Manchester) and Gary Huckleberry became the new Co-Editors. All Editorial Board members are now Associate Editors and will play a more active role in processing manuscripts and selecting reviewers.

Geoarchaeology has a broad, interdisciplinary scope dealing with the understanding of archaeological sites, their natural context, and the material artifacts recovered from them. Manuscripts may include subjects from disciplines within the earth-sciences (e.g., geography, pedology, climatology, geology, oceanography, geochemistry, geochronology, and geophysics) or those from biological sciences. Manuscript submission and review is fully electronic and processed through Manuscript Central, a web-based program for managing documents in the peer-review process. For more information, go to the "For Authors" link at <http://www3.interscience.wiley.com/cgi-bin/jhome/36011>.

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OF NOTE

Sixteen years ago the **Wiener Laboratory** was established at the American School of Classical Studies at Athens (ASCSA) to focus on the interplay between the archaeological/ anthropological sciences and the geosciences. Initial funding, and continuous support, has come from The Malcolm H. Wiener Foundation. That initiative was hugely successful – the Wiener Lab. has become an integral part of ASCSA scholarship, a focus for research in the Aegean and Mediterranean region by anthropologists, archaeologists, geologists, geophysicists, geochemists, biologists, and others.

Success has led to increasingly cramped facilities. There is simply little space left for expansion of the lab.'s library, work spaces, and offices. During the academic year it can be crowded with up to four fellows funded through the four fellowships the lab annually provides, one faculty member via the newly created Malcolm H. Wiener Visiting Research Professorship, in addition to students, associates, and professors from universities and laboratories around the world.

A new facility is now planned thanks to a \$2 million contribution from the Malcolm H. Wiener Foundation, and a \$500,000 contribution from Dr. Charles Williams II. Additional donations have also come in response to the new Capital Campaign by the Trustees of the ASCSA to find matching funds for the new laboratory building, as well as other projects at the ASCSA. This is dramatic acknowledgment of the significant contribution the Wiener Laboratory has made to all aspects of the archaeological and anthropological sciences at the ASCSA, to other foreign schools in Greece, and to research faculty throughout the world. It is an investment in a brilliant future for the lab. Preliminary planning for the new building is underway, and suggestions are welcome.

Submitted by: Prof. Floyd W. McCoy, 2008-9 Malcolm H. Wiener Visiting Research Professor and Dr. Sherry Fox, Director, Wiener Laboratory

Rip Rapp is working on a Second Edition of '**Archaeomineralogy**' [Springer 2002] which will cover the human use of rocks and minerals up to the end of the 18th century AD. He is looking for advice on what topics readers found missing in the First Edition. All constructive criticism will be appreciated, and can be sent to grapp@d.umn.edu

Lucy Wilson would like to alert people to a new website, www.developinginternationalgeoarchaeology.org, which has information on past and upcoming Developing International Geoarchaeology conferences, and also on other related events that may be of interest to geoarchaeologists.

At his revised website www.harrismatrix.com, Dr Ed Harris has arranged for the free downloading of his textbook "**Principles of Archaeological Stratigraphy**". Long out of print and very expensive when it was, Harris was determined that the book should be widely available,

especially to students, and therefore is giving it away for free. The site has been set up and is maintained by Dr. Wolfgang Neubauer and Klaus Loecker of the University of Vienna, to whom Ed expresses his thanks for this service to archaeology.

The **RFK Science Research Institute** trains high school students to do science research. Many of its students end up doing geoarchaeological projects. Among its students this year, Rebecca Long dated teeth from an archaeological locality at Dakhleh Oasis. For this project, she was named a regional finalist in the Siemens Science and Math Contest. She was also named a semi-finalist at Intel. James Leung, Shabitri Dasgupta, and Tiffany Yau were also named Siemens Regional Finalists for their project which included dating teeth from archaeological sites in southwestern France. Jane Gong was named a semi-finalist in Siemens for her work to develop ESR dating for barnacles. She successfully dated barnacles associated with a landslide in BC.

A geoarchaeological Keck project is being run this summer in Italy; it will be addressing the goals of the **Mugello Valley Archaeological Project** by identifying settlement patterns around Poggio Colla with the specific intent of understanding the exploitation of the ancient geologic resources used in ceramic production. These questions are especially resonant given the archaeological topography of the Mugello basin, a region on the edge of the Apennines and at the northeastern periphery of Etruscan territory. This area is little known archaeologically but could provide important information about Etruscan connections and trade routes with their Italic neighbors to the north and along the Adriatic coast to the east. Submitted by Rob Sternberg.

Boise State University, Boise, Idaho, has created a **B.A. in Geoarchaeology**. This is a new interdisciplinary major that combines courses from the geosciences, anthropology as well as biology and chemistry. The degree combines contributions from the earth sciences (e.g. petrology, geomorphology, stratigraphy, and geochemistry) and anthropology (e.g. human prehistory, paleoecology, evolutionary and paleontology). Contacts for the major are: Dr. David Wilkins (dwilkins@boisestate.edu) and Dr. Christopher Hill (chill2@boisestate.edu).

Students in geoarchaeology and related fields are encouraged to join the new **Geoarchaeology Student Listserv**, a moderated e-mail-based forum, offering a way to interact both professionally and socially. List members can get to know one another, share information and experience, pass around job and conference announcements, organize field trips and sessions, connect at conferences, vent frustrations, and talk about other subjects subscribers would like to discuss. For information about the listserv, please visit <http://web.mac.com/elleryfrahm/iWeb/Geoarchlist/> or do a Google search for "GSA AGD listserv." Please encourage your students to sign up too!

Looking for an accessible way to explain to students, a colleague, or the public what a "geoarchaeologist" or "archaeological scientist" does? The **Geoarchaeology News Blog** scours news websites for articles about geoarchaeology and archaeological science so that visitors can learn more about these fields from low-jargon newspaper stories. Other information, such as conference announcements, can also be found here. Visit this news blog at <http://web.mac.com/elleryfrahm/iWeb/GeoArchSci/> or do a Google search for "geo arch sci."

Free Near East Obsidian Sourcing: The University of Minnesota Electron Microprobe Laboratory has now allotted instrument time for obsidian sourcing using Minnesota's Obsidian of Anatolia and the Near East (MinOAN) reference collection, currently being studied by Ellery Frahm. This service is free of charge thanks to the lab, although a few conditions do exist. The obsidian artifacts must, of course, have originated in Turkey, Syria, Lebanon, Iraq, or elsewhere in the Near East for the MinOAN collection to be useful. Interested researchers should email Ellery with a brief proposal that includes the region, approximate number of artifacts, research goals, etc. Researchers at any level, from graduate students to emeritus faculty, and in any country are eligible and encouraged to participate in this research program. More information can be found at <http://web.mac.com/elleryfrahm/iWeb/Obsidian/> or do a Google search for "minnesota obsidian sourcing."

WORKSHOPS, SCHOOLS, AND SHORT COURSES

The 2008 Oregon State University Archaeology Field School will be held at the American Bar site, located in the beautiful lower Salmon River canyon of western Idaho. In addition to learning professional excavation techniques on a multicomponent prehistoric site in a complex depositional context, students will be exposed to a range of geoarchaeological field techniques, including landscape-scale geomorphic mapping, stratigraphic description and approaches to interpretation, sampling for luminescence dating techniques, and in-field use of the NITON portable x-ray fluorescence device for stratigraphic correlation and geochemical characterization. Interested students should visit the field school's webpage at:

<http://oregonstate.edu/cla/anthropology/2008-lower-salmon-river-field-school>

A time lapse movie showing the entirety of last summer's excavations at American Bar can be seen on YouTube by searching for "American Bar Archaeological Excavation". For more information, contact Loren Davis at (541) 737-3849 or loren.davis@oregonstate.edu

Summer, 2008 Kampsville, IL Field school opportunities Field courses will be offered in Archaeology, Bioarchaeology, GIS and Geophysical Remote Sensing,

Paleoethnobotany, and Zooarchaeology by the Center for American Archeology and Arizona State University, in cooperation with the Illinois State Museum, Washington University St.Louis, and the University of Arkansas Center for Advanced Spatial Technologies, are pleased to announce expanded college. All courses are open to both beginning and advanced students; course credit will be provided through Arizona State University. Field Excavation, Bioarchaeology, and GIS/Geophysical Remote Sensing will be six-week courses taught at the Center for American Archeology in Kampsville, Illinois. Paleoethnobotany will be a two-week course also taught at the CAA; Zooarchaeology will be a two-week course taught at the Illinois State Museum in Springfield, Illinois. For more information or to register please visit: www.asu.edu/clas/shesc/projects/cbr/bfs/ or e-mail: gvgogel@gmail.com

August 16-17, 2008 Kampsville, IL Center for American Archeology Geoarchaeology Workshop The Center for American Archeology is pleased to offer weekend hands-on workshops in geoarchaeology as part of our summer calendar. These intensive 2-day workshops are appropriate for undergraduate or graduate students, and professionals seeking to further their understanding of soils and geoarchaeology. Instruction will include informal lectures and hands-on experience describing, sampling, and interpreting soils and sediments in the field and in the laboratory. Special attention will be given to using soil and sediment data to better interpret the archeological record.

Tuition for this workshop is \$200 for the weekend, including room (in one of the CAA's bunk-style dormitories) and basic field lunches (breakfast and dinner are not included). Rooms are available on the days immediately before and after workshop dates at no additional charge.

For more information and to enroll in this workshop visit the CAA's main web page: www.caa-archeology.org.

UPCOMING MEETINGS

August 6-14, 2008 Oslo, Norway 33rd International Geological Congress For information on this meeting, go to The IGC's homepage is: <http://www.33igc.org/coco/>. Sessions on geoarchaeological and related themes are mostly grouped as: "Geoarchaeology IEA " and include: IEA-01 General contributions to geoarchaeology, IEA-02 Geoarchaeology and geomythology as geological constraining tools, IEA-03 Geophysical and geochemical archaeology, IEA-04 The geoarchaeological perspective: Human interactions with the geosphere, IEA-05 Geology and cultural heritage, IEA-06 Geoarchaeology and archaeometry. GHZ-09 Dark Nature Project: Natural hazards and Environmental Catastrophes in the late Holocene, and EGZ-06 Geochemical proxies of palaeoenvironmental change in terrestrial environments.

Symposium IEA-04, Human interactions with the geosphere, is particularly aimed at eliciting examples of how human societies have coped with (and caused) environmental

changes in the past, and how these can influence our choices of sustainable practices today and in the future. For more information, contact Lucy Wilson, lwilson@unbsj.ca

August 30 – September 5, 2008 Bonn, Germany

XII International Palynological Congress See congress website: <http://www.paleontology.uni-bonn.de/congress08/index.htm> for details. Symposia include "Pollen calibration for high-resolution quantitative landscape reconstructions".

September 14-16, 2008 York, UK

Third International Symposium on Biomolecular Archaeology The general aim of these informal symposia is to stimulate research in the subject area and to encourage the exchange of information between researchers in different disciplines. Focus of the symposia series has been the application of biomolecular techniques to archaeological questions, this ideally in combination with "traditional" archaeological research methods. For more information, www.york.ac.uk/depts/arch/ISBA3/index.html.

September 24-26, 2008 Aix-en-Provence

Geoarcheology et Taphonomie This meeting is organised within the framework of the Réseau Thematique Pluridisciplinaire (RTP) en Taphonomie (2007-2009) (CNRS-EDD). Our goal is to discuss and highlight the significance of sedimentological studies (at all levels) in the interpretation of taphonomic processes that affect archaeological remains and contexts. Accordingly, we seek to put together a group of oral presentations and posters covering the following two basic points: -examples of specific studies that emphasize the link between the reconstruction of postdepositional processes and the understanding of taphonomic processes in archaeological context -discussions on methodological and theoretical aspects regarding the issue of studying sediments in archaeological context as well as the sediment/ archaeological object interface. For more information contact Carolina Mallol, mallol@msh.univ-aix.fr.

October 10-11, 2008 Austin, TX

39th Annual Binghamton Geomorphology Symposium Registration is now open for the "Fluvial Deposits and Environmental History". Symposium organizers are Paul Hudson, Karl Butzer, and Timothy Beach and the web site is located at: <https://webpace.utexas.edu/hudsonpf/inghamton.html>

October 19-22, 2008 Pompeii, Italy

9th International Conference on Ancient DNA and Associated Biomolecules The conference is an excellent opportunity for ancient world enthusiasts to meet in a relaxing and stimulating environment. For further information please visit the meeting website <http://www.ancientdna9.it/index.aspx> or contact info@ancientdna9.it Main Topics: Preservation, isolation and analysis of ancient DNA and other ancient biomolecules, Methods of extraction and purification of ancient biomolecules from ancient materials, PCR and sequencing of ancient DNA, Prevention and causes of sample contamination, Authenticity of putative ancient DNA, Hereditary and

infectious diseases in past populations, Population genetics, DNA profiling, sexing, methods and application, Identification of species, Forensic applications, Evolution, Human migrations, Domestication, New and emerging technologies

November 19-22, 2008 Boston, MA

American Schools of Oriental Research Annual Meeting The ASOR meeting this year will include a section on Artifacts: The Inside Story. This session will involve submissions in which the analysis of Near Eastern and Eastern Mediterranean artifacts by means of physical or chemical techniques has led to a new or re-interpretation of the archaeological record. Paper topics include provenance, materials characterization, raw material acquisition, workshop activity, manufacturing techniques, and ancient technology. Please check the ASOR website for membership and participation requirements: <http://www.asor.org/>

April 22-24, 2009 Atlanta, GA

Society for American Archaeology Annual Meeting GIG Poster Session – First Call "Geoarchaeology and Interpretation" This poster session provides a forum to explore the explanatory power of geoarchaeological approaches to archaeological interpretation. Geoarchaeologists provide alternative models for understanding the subtleties of the archaeological record and the processes that formed it. Our research often challenges field assumptions, provides spatial and temporal context to artifact specialists and addresses long-standing questions about site formation. We hope to attract posters that demonstrate the significant contributions earth science specialists make to understanding the past through field, lab and analytical methods. The session aims to reach a wide archaeological audience by presenting both methodological as well as theoretical advancements provided by a geoarchaeological framework. Presently, this session includes research into complex village site formation and dwelling construction in Bolivia and British Columbia, Canada. Organizer(s): Melissa Goodman-Elgar, Kelly Derr and Patrick Dolan.

May 3-8, 2009 Vancouver, BC Canada

CANQUA/CGRG conference The Canadian Quaternary Association (CANQUA) 2009 organizing committee would like to invite you all to Simon Fraser University from May 3 to May 8th for the biennial conference. This will be a joint meeting with the Canadian Geomorphology Research Group (CGRG). We are planning a number of exciting field trips including a CGRG sponsored pre-conference trip to the interior of British Columbia to explore glacial history and paleo-ice sheet dynamics, a post conference trip to the Channeled Scabland in northwestern United States, and a number of 1-day mid-conference trips. We are also planning a 1 day short course to be given by Dr. John Gosse on the application of terrestrial cosmogenic nuclides to Quaternary research.

May 25th-29th, 2009 Hamilton, Ontario, Canada

DIG: Developing International Geoarchaeology 2009 conference and Instrumental Neutron Activation Analysis Workshop McMaster University will be hosting the next DIG conference; for more information see developinginternationalgeoarchaeology.org or email: dig@mcmaster.ca

June 23-26, 2009 Guadalajara, Jalisco, Mexico

11th International Paleolimnology Symposium. The scientific community is encouraged to submit presentations related with every field of paleolimnology. The organizing committee of the 11th International Paleolimnology Symposium is now calling for the proposal of special sessions. The deadline for submitting a special session proposal will be the 1st of October 2008. The number of special sessions will be limited by the availability of space during the meeting; therefore we suggest sending your proposal as early as possible. For submission, please send an e-mail to maga@geofisica.unam.mx with a brief description (one paragraph or so) of the theme of the session you intend to organize, including name(s) and contact details of the convener(s). If two or more special sessions are proposed on very similar subjects you might be asked to combine the sessions. We are also pleased to announce that the symposium's web page is now active at: <http://www.geofisica.unam.mx/paleolimnologia/>

July 6-11, 2009 Melbourne, Australia **International**

Geomorphology Conference The International Working Group on Geoarchaeology, an IWG of the International Association of Geomorphologists (IAG), invites you to participate in the following symposium: Geomorphology and geoarchaeology: cross-contribution and interactivity, Co-convenors: Patricia Fanning¹, Eric Fouache² and Kosmas Pavlopoulos³

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The geoarchaeological approach has now become widely accepted in archaeological programmes. It is generally acknowledged that it is necessary to take the landscape and environmental dynamics into account to reconstitute a complete history of societies and to study the interaction between humans and their environment. Geomorphology plays an important role in the geoarchaeological approach, and has greatly benefitted from its collaboration with archaeology over the past decades. The session is open to any geoarchaeological study, but will be particularly focused on highlighting the impact of geomorphology in the field of geoarchaeology.

For more information, see www.geomorphology2009.com