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# Πληροφοριακό Δελτίο της Ελληνικής Αρχαιομετρικής Εταιρείας

**- Αύγουστος 2005 -**

# Newsletter of the Hellenic Society of Archaeometry

**- August 2005 -**

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## **ΣΥΝΕΔΡΙΑ - CONFERENCES/WORKSHOPS**

# **19<sup>TH</sup> INTERNATIONAL RADIOCARBON CONFERENCE**

## **2nd Circular**

We would like to announce the new WWW site for the radiocarbon conference at Oxford in April 2006. This can be found at: <http://www.rlaha.ox.ac.uk/c14/conference19>

We urge you to visit the site and register your interest in attending. This puts you under no obligation but it helps us to organise the conference as you wish. Please suggest specific topics on the 'Interests' page.

The conference is residential and spaces are not unlimited so pre-registration is important in giving you priority in booking accommodation too.

When you visit the site you will have to give your name and email address and then you will be sent a username and password. This can be used to enter your details and interests. You can edit these details at any point by logging back in. You can also submit abstracts online – we anticipate the abstract submission deadline will be the end of January 2006 but there will be a further circular in the Autumn with details on deadline dates and finalised costs. Full registration will be open from then.

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**COST ACTION G8, "NON  
DESTRUCTIVE ANALYSIS AND  
TESTING OF MUSEUM OBJECTS",  
INTERCOLLEGE**

**Nicosia, 18-20 May 2006**

Dear colleagues

I would like to inform you about the final workshop of COST Action G8 "Non Destructive Analysis and Testing of Museum Objects" that will take place at Intercollege, Nicosia, from 18-20 May 2006. The above Action enables the cooperation of scientists of different disciplines: archeologists, art historians, museum curators, conservators, chemists, physicists, geologists, microbiologists, mineralogists. The main objective is the improvement of preservation and conservation of cultural heritage, by increasing our knowledge about museum objects through non destructive analysis and testing.

Please find attached the first announcement for the workshop.

Please contact me for further information.

Best regards

Marios Nestoros

\*\*\*\*\*

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\*\*\*\*\*

**We are happy to announce the final workshop of COST Action G8 “Non-destructive Analysis and Testing of Museum Objects”, 18-19-20 May 2006 in Nicosia, Cyprus.**

COST Action G8 (2000-2006) is a pan-European network that enables the co-operation and interaction between two groups of professionals: people directly concerned with the maintenance of our cultural heritage – art historians, curators, archaeologists, conservators, conservation scientists – and analytical scientists, including chemists, physicists, geologists, metallurgists, mineralogists and microbiologists (<http://srs.dl.ac.uk/arch/cost-g8/>). The main objective of the action is to improve the preservation and conservation of our cultural heritage by increasing our knowledge of museum objects through non-destructive analysis and testing. The workshop will disseminate the achievements of the Action, address successful activities in the fields below, and provide a venue for discussion of future work including new actions.

- Technology and authenticity
- Origin and provenance
- Degradation processes, corrosion, weathering
- Preservation and conservation
- Development of analysis procedures
- Biological and material culture of Qumran at the Dead Sea

In addition one day will be dedicated to archaeology and conservation activities in Cyprus, featuring presentations from local experts and site visits.

The workshop will finish with a round-table discussion where the outcome of COST Action G8 will be measured up to the needs of the conservation community. The panel will comprise representatives from major international conservation organizations.

The complete program of the workshop will be announced in the fall of 2005. Speakers will be selected from amongst the members of G8, but the workshop is open to everyone.

Registration will be free.

Please make a note of the dates in your diary.

We would be grateful if you could forward this information to anyone whom you think may be interested.

# **COSMOGENIC NUCLIDE SPECIAL** **SESSION AT 2005 FALL AGU** **MEETING AGU, DECEMBER/SAN** **FRANCISCO**

Dear Colleagues,

We are convening a special Union session on cosmogenic nuclides for the December/San Francisco AGU meeting. We are soliciting abstract submissions in any area of cosmogenic nuclide research, and we encourage you to contribute. This session presents us the opportunity to bring together the diverse and exciting applications of cosmogenic nuclides research, in a highly visible forum.

Please be sure to spread the word. Please contact any one of us for more information.

The abstract submission deadline is September 8.

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2005 Fall AGU Meeting: <http://www.agu.org/meetings/fm05/>

Union session U10: Cosmogenic nuclides: New Chronologies at the Earth's surface.

The time scales of surficial processes are important to understanding the advance and retreat of ice sheets, volcanic hazards, neo-tectonics, and landscape evolution. Measurements of in-situ produced cosmogenic nuclides at the earth's surface (e.g.,  $^3\text{He}$ ,  $^{10}\text{Be}$ ,  $^{14}\text{C}$ ,  $^{21}\text{Ne}$ ,  $^{26}\text{Al}$ ,  $^{36}\text{Cl}$ ) have provided earth scientists with the methods to determine the time scales by which the earth's surface changes, in ways that were previously not possible. This interdisciplinary session will bring together physicists, glacial geologists, geomorphologists and volcanologists to discuss the latest advances in the application of cosmogenic nuclides to the earth sciences. Areas of particular interest will include: new continental glacial chronologies, the oldest terrestrial landscapes, movement rates on faults, onset of North American glaciation, erosion rates, and scaling models for production rates. This session will also promote the goals of the International CRONUS-Earth (Cosmic-Ray Produced Nuclide Systematics on Earth) project.

\*\*\*\*\*

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\*\*\*\*\*





**IAMS SUMMER SCHOOL, ANCIENT  
MINING TECHNOLOGY ANCIENT  
SMELTING & METALURGY,  
UNIVERSITY COLLEGE LONDON, 5-16  
SEPTEMBER**

**Reminder**

This is to remind you

IAMS Summer School  
Ancient Mining Technology Ancient Smelting & Metalurgy  
University College London  
5-16 September

see: [http://www.ucl.ac.uk/iams/iams\\_summer\\_2005.htm](http://www.ucl.ac.uk/iams/iams_summer_2005.htm)

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# **4<sup>TH</sup> CONFERENCE ON SCIENCE AND TECHNOLOGY IN ARCHAEOLOGY AND CONSERVATION, JORDAN**

**FIRST & LAST CALL FOR**

**THE FOURTH CONFERENCE  
On SCIENCE AND TECHNOLOGY  
IN  
ARCHAEOLOGY AND CONSERVATION**

**Organized by the Department of Antiquities of Jordan  
AND  
Queen Rania Institute of Tourism and Heritage  
The Hashemite University**

The success of the first three conferences under the above title has been beyond expectations. It is with great pleasure that we announce the Fourth event in this series, with the hope that you will be able to join us and contribute to this effort. This year we are honored by the participation of the Jordanian Department of Antiquities in the active organization of the event.

The topics for this year are very much the same as before

However we would like to stress the importance of the following topics

- 1- Archaeology
- 2- Tourism
- 3- Ancient Water Management
- 4- 3D virtual Reality of the Built Heritage and Ancient Artifacts
- 5- Protection of Cultural Heritage in Times of Conflict and Natural Disasters
- 6- Conservation and Preservation of the Tangible Cultural Heritage
- 7- The Intangible Cultural Heritage
- 8- Management of Archaeological Landscapes
- 9- Cooperation in International on Cultural Heritage
- 10- Ancient Technologies

**A major event is anticipated:**

**Exhibition of Replicas of Ancient Ceramics:**

For the past two years and a half a number of partners from Greece, Jordan, Turkey, Spain, and Morocco have studying ancient ceramics with the aim of recovering the ancient technologies that have produced such fine ware as Iznik, Nabatean, Attica,

Majolica, and Terra Sigillata earthen ware. The partners have agreed to organize an exhibition that will illustrate the results that have arrived at.

Two workshops amongst others will also be organized

- 1- In line with previous tradition a workshop on the protection of cultural heritage from the ravages of war and terrorism will convene. Contributions are welcome. Please indicate that you wish your presentation to be as part of this workshop. A workshop for WATCH. World Association for Tangible Cultural Heritage. This is an NGO we are trying to establish to deal with the problems of Ch in Troubled areas of the World.
- 2- The use of ancient theaters in modern times. Please indicate if you wish to contribute.
- 3- The reproduction of ancient ceramics.

The conference website is:

<http://www.hu.edu.jo/Inside/About/default.htm> click on conferences for second and third conference data

**All German Colleagues who participate will be fully covered by the DFG. Please contact me on this.**

### **Deadlines for presenting your papers**

September 30 : Abstracts

October 30 : Full Papers

Participation fees: 250 euros or Jordanian Dinars JD220

Students: 50 euros or JD40

Please fill the attached form and send it to

Dr. Talal Akasheh

[takasheh@index.com.jo](mailto:takasheh@index.com.jo)

## PARTICIPATION FORM

*Family Name:* .....

*First Name:*.....

*Mr*  *Ms*

*Dr*  *Prof.*  *Eng*  *Arch*  *Other*.....

*Position:* .....

*Organization / Institution:* .....

*E-mail:* .....

*Complete Mail address:*

*Street or P.O.Box:*.....

*Zip Code:* .....

*City:*.....

*Country:* .....

*Phone:* .....

*Cell phone:*.....

*Fax:* .....

I wish to submit a full **paper** Yes  No

*Paper Title:* .....

*Co-Authors:* .....

I wish to submit a **poster** Yes  No

*Poster Title:* .....

*Co-Authors:* .....

The completed Registration Form must be sent, faxed or emailed to:

**Prof. Dr. Talal Akasheh**

**E-mail: [takasheh@index.com.jo](mailto:takasheh@index.com.jo)**

**FAX: 00962-5-382 6613**

**ABSTRACT** (Please 200 words or less but should not be less than 100 words) :

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**3<sup>RD</sup> EUROPEAN SYMPOSIUM ON NMR  
SPECTROSCOPY IN SOIL, GEO AND  
ENVIRONMENTAL SCIENCES,  
FREISING, GERMANY, 6-9 AUGUST 2006**

Dear Colleague:

With this email we intend to draw your attention to the *3rd European Symposium on NMR Spectroscopy in Soil, Geo and Environmental Sciences in Freising, Germany, 6-9 August 2006*

We are looking forward to welcome you at the meeting. Please find attached the first circular with more detailed information. Further information is also available at:

<http://www.wzw.tum.de/bk/nmr06>

With kind regards

Heike Knicker

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# **2005 AUSTRALASIAN** **ARCHAEOLOGY CONFERENCE -** **REGISTRATION OPEN**

Dear all,

I am pleased to announce that registration for the 2005 Australasian Archaeology Conference is now open. The conference is to be held at the Department of Archaeology and Natural History, here at the Australian National University in lovely Canberra from Dec 12-15.

Please visit the conference website for all details:

[http://car.anu.edu.au/Archaeology/archaeology\\_conference.html](http://car.anu.edu.au/Archaeology/archaeology_conference.html)

There is an online registration system that can be reached via the conference website or via this link: <http://rspas.anu.edu.au/anh/conference/>

NOTE THAT THE REGISTRATION COST INCREASES CLOSER TO THE CONFERENCE DATE and is cheapest before 01/11/05

There is still time to submit oral and poster submissions. Please contact the session organisers. The final date for conference submissions is 31/10/05

I apologise for the delay in getting all of the details finalised, due to technical problems beyond my control. We have tried to minimise the conference cost and look forward to seeing you.

Best wishes  
Andy Fairbairn

\*\*\*\*\*

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Palaeoworks: <http://palaeoworks.anu.edu.au/index.html>

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\*\*\*\*\*





**CONFERENCE ON SHIP**  
**CONSTRUCTION IN ANTIQUITY -**  
**TROPIS 2005, AYIA NAPA-CYPRUS,**  
**25<sup>TH</sup>-30<sup>TH</sup> OF AUGUST**

Dear colleagues,

The Hellenic Institute for the Preservation of Nautical Tradition organises in collaboration with the Pierides Foundation the 9th International Symposium on Ship Construction in Antiquity-Tropis 2005. The symposium will take place in Ayia Napa-Cyprus from the 25th-30th of August. For more information and registration you can visit <http://tropis2005.conferences.gr>

\*\*\*\*\*

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\*\*\*\*\*



**EUROPEAN SCIENCE FOUNDATION**  
**(ESF) LESC EXPLORATORY**  
**WORKSHOP, CHARCOAL TO BLACK**  
**CARBON: DEFINING COMMON ISSUES**  
**OF QUANTIFICATION AND**  
**INTERPRETATION IN**  
**ARCHAEOLOGICAL,**  
**PALAEOENVIRONMENTAL AND**  
**CARBON CYCLE RESEARCH, ST**  
**ANDREWS, UK, 31 AUGUST - 2**  
**SEPTEMBER 2005**

The European Science Foundation (ESF) acts as a catalyst for the development of science by bringing together leading scientists and funding agencies to debate, plan and implement pan-European scientific and science policy initiatives. ESF is the European association of 78 major national funding agencies devoted to scientific research in 30 countries. It represents all scientific disciplines: physical and engineering sciences, life and environmental sciences, medical sciences, humanities and social sciences. The Foundation assists its Member Organisations in two main ways. It brings scientists together in its EUROCORES (ESF Collaborative Research Programmes), Scientific Forward Looks, Programmes, Networks, Exploratory Workshops and ESF Research Conferences to work on topics of common concern including Research Infrastructures. It also conducts the joint studies of issues of strategic importance in European science policy. It maintains close relations with other scientific institutions within and outside Europe. By its activities, the ESF adds value by cooperation and coordination across national frontiers and endeavours, offers expert scientific advice on strategic issues, and provides the European forum for science.

***European Science Foundation***

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**WORKSHOP SUMMARY/OBJECTIVES:**

The carbon-rich products of combustion are the focus of largely independent strands of research in archaeology, the global carbon cycle and palaeoenvironmental reconstruction. While many of the problems associated with the analysis of charcoal/black carbon are common across these disciplines, they have largely worked in isolation from each other. This workshop will bring together leading researchers in these disparate fields to identify the cross-disciplinary synergies that undoubtedly exist in efforts to define, quantify and interpret charcoal/black carbon in the modern environment and the geological/archaeological record.

**PRELIMINARY PROGRAMME**

**Wednesday 31 August 2005**

18.30 – 19.30 *Registration and welcome reception at New Hall*

19.30 *Dinner at The Grill House*

**Thursday 1 September 2005**

08.15 **Presentation of the European Science Foundation (ESF)**

**Fatima Abrantes** (Standing Committee for Life, Earth and Environmental Sciences)

**Session 1: Carbon Cycle Research**

08:30 - 09:00 *Keynote: Claudia Czimczik* - Why are there no black soils in the boreal?

09:00 - 09:30 **Michael Schmidt** - The Determination of Black carbon in soils

09:30 - 10:00 **Heike Knicker** - Humification and the stability of charcoal in soil

10:00 - 10:30 *Morning tea*

10:30 - 11:00 **Wulf Amelung** - Origin and fate of black carbon in arable soils

11:00 - 11:30 **Otmar Schmid** - Biomass burning and black carbon production

11:30 - 12:00 **Michael Bird** – The stability of charcoal in natural environments

12:00 - 12:30 **Jose Gonzalez** – Pyrolysis GC/MS applications in black carbon research

12:30 - 13:30 *Lunch (including poster presentations by students)*

### **Session 2: archaeology and radiocarbon dating**

13:30 - 14:00 *Keynote:* **Stephen Weiner** - Novel techniques for the analysis of macroscopic charcoal

14:00 - 14:30 **Yorgos Facorellis** - Radiocarbon dating of charcoal at Theopetra Archaeological site

14:30 - 15:00 SUERC representative - Radiocarbon dating of microcharcoal

15:00 - 15:30 **Tom Higham** - Problems radiocarbon dating charcoal from archaeological sites

15:30 - 16:00 *Afternoon tea and discussion*

16:00 - 16:30 **Jill Thompson** - Tropical archaeobotany: an elusive search for charred macro-remains

16:30 - 17:00 **Neil Roberts** – Anthracology in the Mediterranean region

17:00 - 17:30 Discussion from sessions 1 and 2

19:30 *Dinner at The Doll's House, St. Andrews*

### **Friday 2 September 2005**

#### **Session 3: Sedimentary Records of charcoal / black carbon**

09:00 - 09:30 **Orjan Gustafsson** - Further testing and application of the chemothermal oxidation approach to the study of BC in marine sediments.

09:30 - 10:00 **Kathy Willis** - Analysis of microcharcoal for palaeoenvironmental reconstruction

10:00 - 10:30 **Florian Thevenon** - Biomass burning records from black carbon in marine sediments

10:30 - 11:00 **David Taylor** - Records of biomass burning in fluvio-lacustrine sediments

#### **Session 4: Discussion, Consolidation and Recommendations**

11:00 - 14:00 *Morning tea*

General discussion, identification of common issues and formulation of research agenda for future funding proposals, closing remarks

*Lunch in Secret Bunker Cafe*

14:00 *Departure by bus for Edinburgh/Leuchars*

#### **Objectives of the ESF Standing Committee for Life, Earth and Environmental Sciences (LESC)**

The main objectives of the **ESF Standing Committee for Life, Earth and Environmental Sciences (LESC)** are:

1. to identify and promote emerging scientific topics and high quality science deserving special attention in Europe;
2. to manage a wide ranging portfolio of activities of the European Science Foundation;
3. to examine and report on issues of strategic scientific importance within its fields of competence.

This committee's sphere of activities comprises the broad field of life, earth and environmental sciences:

- Biology
- Biotechnology
- Agriculture
- Earth sciences
- Climate research
- Glaciology
- Oceanography
- Environmental sciences, etc.

**ESF Standing Committees** support a limited number of **Exploratory Workshops** each year. These workshops allow leading European scientists to explore novel ideas at the European level with the challenging aim to "*spearhead*" new and preferably interdisciplinary areas of research. Further details are available on the internet at: <http://www.esf.org/workshops>.

One desirable outcome of an ESF Exploratory Workshop may be that participants submit **high quality proposals for further ESF activities** (such as "à la carte Programmes" or a EUROCORES initiative), or **research funding applications** for submission to the EU 6th Framework Programme or to other European or international funding organisations. In the case of **ESF Programmes** ("à la carte" or EUROCORES), which are financed by, and coordinated through, the European Science Foundation, a draft proposal should be submitted to the LESC Secretariat for advice, to then subsequently undergo further external refereeing. If successful in obtaining LESC's scientific recommendation, the proposal will be submitted to ESF Member Organisations for funding on a voluntary basis. More details are available at <http://www.esf.org/lesc>.

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# **LACONA VI, LASERS IN THE CONSERVATION OF ARTWORKS, VIENNA, SEPTEMBER 21 - 25, 2005**

## **Last announcement**

Dear Madams and Sirs,

**The final program may now be downloaded from [www.lacona6.at/downloads](http://www.lacona6.at/downloads).**

There will be 6 keynote lectures; 70 other oral presentations and more than 60 poster presentations. Several laser companies will present their know-how and equipment.

Please note that the reduced registration fee only applies before July 31, 2005

For remembrance we repeat the most important facts:

### **Location**

Academy of Fine Arts Vienna, Austria

### **Time**

September 21 - 25, 2005

### **List of conference topics**

- **Laser cleaning of monuments and artefacts (e.g. stone, metal, glass, paper, parchment, paintings, wood etc.), application and evaluation**
- **Laser for documentation and diagnosis of works of art (3D-measurements, holography, vibrometry etc.)**
- **Laser for material analysis (RAMAN, LIBS, LIF etc.)**
- **Laser for monitoring of environmental conditions**
- **Safety and health aspects**

### **Social program**

**09-21-2005: Visit to the “GEMÄLDEGALERIE” of the Academy of Fine Arts**

**09-21-2005: Welcome reception at the Academy of Fine Arts**

**09-22-2005: Reception at the City Hall of Vienna**

**09-23-2005: Organ concert at St. Stephen’s cathedral, Vienna**

**09-24-2005: Congress dinner at a “Heurigen” restaurant**

### **Accommodation**

**Possibilities for hotel reservations are offered at: [www.lacona6.at](http://www.lacona6.at).**

### **Important Deadlines**

July 31, 2005

deadline for reduced registration fee

September 21 - 25, 2005

conference

September 24, 2005  
submission of manuscripts for the conference volume

### **Registration/Payment**

Some participants already sent us their confirmation through payment. Thank you!  
Please keep in mind, your registration is only complete upon remitting the congress fee to our Lacona bank account.

If you already submitted an abstract please consider, that it cannot be included in the conference proceedings, before you transferred the conference fee. For payment details please refer to [www.lacona6.at](http://www.lacona6.at).

Registration fee  
before July 31, 2005: 240 Euro  
after July 31: 280 Euro  
Registration fee for students  
before July 31, 2005: 120 Euro  
after July 31: 140 Euro

### **Contact**

Congress Secretariat, LACONA VI  
Tel.: +43 (0) 1 7982146 37  
Bundesdenkmalamt  
Fax.:+43 (0) 1 7982146 49  
Amtswerkstätten für Kunstdenkmale,  
e.mail:[office@lacona6.at](mailto:office@lacona6.at)  
Arsenal Objekt 15, Tor 4  
homepage: [www.lacona6.at](http://www.lacona6.at)  
A-1030 Vienna, Austria

**We are looking forward to seeing you at the LACONA VI congress in Vienna!**

**Sincerely yours,**

**Johann Nimmrichter/Manfred Schreiner/Wolfgang Kautek**

\*\*\*\*\*

Johann Nimmrichter  
Department for Conservation and Restoration  
Federal Office for Care and Protection of Monuments Austria  
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## **REMINDER: FALL GSA SESSION ON COSMOGENIC NUCLIDES AND WEATHERING ZONES, SALT LAKE CITY, UTAH, 16-19 OCTOBER 2005**

Dear colleagues,

We would like to remind you about our Topical Session T62 during the GSA annual meeting in Salt Lake City, Utah, 16-19 October 2005.

Title: Ice Free versus Cold-Based Ice: Cosmogenic Nuclides, Trimlines, and Ice Sheet History of Differentially Weathered Landscapes

T62 Session Type: Oral

Scientific Categories: Quaternary Geology, Geomorphology, Paleoclimatology/Paleoceanography

Sponsor: GSA Quaternary Geology and Geomorphology Division

Conveners:

Jason P. Briner, [jbriner@buffalo.edu](mailto:jbriner@buffalo.edu),

Michael R. Kaplan, [mkaplan@geo.ed.ac.uk](mailto:mkaplan@geo.ed.ac.uk)

Session Description: The interpretation of weathering zones and trimlines in differentially weathered landscapes has been debated for decades. This session solicits papers that address our current understanding of ice sheet history in these ubiquitous landscapes.

Rationale: Debates have persisted in the international literature for decades over the interpretation of 'weathering zones' and erosional trimlines in high latitude glacial landscapes. Contrasting interpretations are that highly weathered uplands persisted as nunataks during the last glaciation or that they were covered by non-erosive, cold-based ice, and associated trimlines represent englacial thermal boundaries separating warm-based ice from cold-based ice. These scenarios have differing implications for ice sheet thickness, overall ice sheet behavior, and the evolution of glacial landscapes. Such landscapes are particularly ubiquitous along the glacially dissected rims of passive continental margins around the high latitude North Atlantic Ocean, and thus also have relevance for interpreting offshore records, and in Antarctica. Debates have resulted partly from our inability to date definitively ice sheet history above and below trimlines. Cosmogenic radionuclide measurements have revolutionized the study of these landscapes because they can provide absolute chronologic information on the exposure (and burial) history of surfaces in different weathering zones and associated trimlines in many regions. In some locations, cosmogenic radionuclide measurements have settled long-standing controversies. The purpose of this session is to take stock of



the current knowledge on the ice sheet history in differentially weathered landscapes, to synthesize the applications of cosmogenic radionuclides in these landscapes, and to identify outstanding questions. This topic will be relevant to a broad array of Quaternary scientists, including glacial geologists, glaciologists paleoclimatologists, process geomorphologists, and geochronologists.

We would welcome your contributions. Abstract deadline is next July 12th (next Tuesday) <http://www.geosociety.org/meetings/2005/sessions/topical.asp>

Invited speakers:

John Gosse (Dalhousie University)  
John Stone (University of Washington)  
Derek Fabel (University of Glasgow)  
Marek Zreda (University of Arizona)

Regards,

Michael Kaplan and Jason Briner

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M. Kaplan  
School of GeoSciences  
University of Edinburgh  
Drummond Street  
Edinburgh, EH8 9XP  
Scotland, UK  
44 (0) 131 650 9140

\*\*\*\*\*



# **NOTICE OF WORKSHOP AT AMS-10,** **3 AND 4 SEPTEMBER 2005 AT THE** **UNIVERSITY OF CALIFORNIA,** **BERKELEY**

The IAAMS (Isotope analysis by accelerator mass spectrometry) network of the European Science Foundation plans to organise a second workshop in association with AMS-10 on 3 and 4 September 2005 at the University of California, Berkeley. The theme for the second workshop will be **“Data acquisition, reduction and modelling: Issues in the estimation of isotopic ratios and evaluation of activities from AMS measurements”**

Spaces will be limited, but interested participants should e-mail [marian@stats.gla.ac.uk](mailto:marian@stats.gla.ac.uk) for further information.

\*\*\*\*\*

Professor Marian Scott      [marian@stats.gla.ac.uk](mailto:marian@stats.gla.ac.uk)  
Department of Statistics   [www.stats.gla.ac.uk/~marian](http://www.stats.gla.ac.uk/~marian)  
University of Glasgow      Phone: +44(0) 141 330 5125  
Glasgow G12 8QW          Fax: +44(0) 141 330 4814

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**ΘΕΣΕΙΣ ΕΡΓΑΣΙΑΣ/ΥΠΟΤΡΟΦΙΕΣ –**  
**JOB VACANCIES/FELLOWSHIPS**

**RESEARCH OPPORTUNITIES IN**  
**AUSTRALIA**

Dear All,

If you are thinking of doing a PhD in environmental change or know someone who is then please read the following. We are seeking applicants for 2 new PhD projects at the Department of Archaeology and Natural History, Australian National University. If you have a first class honours (or equivalent) in geography, environmental science, archaeology or similar and you will be applying for an Australian Postgraduate Awards (APA, due 31st October 2005) or International Postgraduate Research Scholarships (IPRS, due 31st August 2005) in the next round then please read the project descriptions below. Alternatively, visit our website PalaeoWorks (<http://palaeoworks.anu.edu.au/students.html>) student page for details of these two new and exciting projects for prospective PhD students.

**Project 1. Biodiversity Change through Time in the Tropical Rainforest of Papua New Guinea**

**Project 2. Microscopic Indicators of Herbivore Extinctions and Invasions in Australasian-Pacific Prehistory.**

For more details see below or contact.....Dr Simon Haberle @ ANU

**Project 1. Biodiversity Change through Time in the Tropical Rainforest of Papua New Guinea**

The potential for sudden collapse of ecosystems in response to multiple interacting pressures has been of increasing concern in ecological and conservation research (Scheffer et al. 2001, Nature 413:591). In the rainforests of Papua New Guinea, human populations numbers are growing rapidly and there is increasing pressure from a range of human resource exploitation from ancient forest clearance for agriculture to recent deforestation for commercial logging and mining. As part of the third largest expanse of rainforest on the globe these rainforests support a staggering array of plant and animal diversity. An equally staggering concentration of cultural and linguistic diversity can be found amongst human populations interacting and subsisting within these environments. One of the lessons learnt from the incorporation of ecological histories into models to understand and manage forest environments is that, with an adequate historical perspective, ecological catastrophes such as biodiversity loss can be predicted and averted (Swetnam et al. 1999, Ecological Applications 9:1189).

This research project aims to chart long-term changes in biodiversity in the Crater

Mountain Wildlife Management Area (CMWMA) of southern Papua New Guinea, a region typifying the cultural and natural variability across the island. The CMWMA was established in 1994 with support from the Wildlife Conservation Society (WCS) as a cooperative venture between The Research and Conservation Foundation of PNG, local landowners and government. Human resource exploitation and natural environmental change (including climate change and volcanic activity) have all played a part in shaping the rainforests of today, however, we still know little of the rate or scale of change that has occurred in the past. The successful candidate will use palaeoecological techniques in lake sites that span the period from the last glacial maximum to the present to explore:

1. the role of multiple interacting pressures, including climate change, volcanic eruptions and human activity on rainforest ecosystem change/stability through time.
2. the development of measures of biodiversity from palaeoecological data,
3. approaches to incorporating palaeoecological data into environmental management models and the implications for conservation and management in the Crater Mountain Wildlife Management Area (CMWMA), Papua New Guinea.

### **Project 2. Microscopic Indicators of Herbivore Extinctions and Invasions in Australasian-Pacific Prehistory.**

The aim of this project is to use the presence/abundance of microscopic dung fungi spores preserved in swamp sediments and archaeological sites as indicators of extinctions and invasions of herbivores in past landscapes. This will be approached through the development of a taxonomic understanding of dung fungi remains preserved in modern and ancient sediments. The technique has proved successful in North America and Madagascar to explore megafaunal extinctions and the introduction of domestic ungulates into these regions. The successful PhD candidate will develop this technique for application to archaeological and palaeoecological problems in the Australasian and Pacific region and be expected to participate in fieldwork in Papua New Guinea and neighbouring Pacific islands. The outcomes of this project will contribute to one of the most significant questions remaining in Pacific prehistory, that of when the pig, the major animal domesticate of the region, was first introduced to the region (Bellwood and White, 2005, *Science* 309: 381).

### **Resources and associations:**

You will join a vibrant palaeoecological and archaeological group at ANU where you will be based in the Department of Archaeology and Natural History, Research School of Pacific and Asian Studies. This is a well-resourced project conducted in conjunction with current departmental research activity in Papua New Guinea. The successful candidate will be expected to conduct fieldwork in the Papua New Guinea in 2006 and 2007. You will be enrolled in the Archaeology and Palaeoanthropology Graduate Program and be based in the Department of Archaeology and Natural History, RSPAS.

### **Background of candidates:**

We are seeking highly motivated and enthusiastic students with a background in Quaternary science, geography, botany, or similar. Some field experience would be an advantage. A first class honours or research masters in a relevant field is required.

### **Applications and closing dates for international (IPRS) and local (APA) scholarships:**

Interested applicants should submit an application for a graduate scholarship to ANU. The deadline for receipt of IPRS applications from international students is 31st August

2005; for APA/ANU/GSS scholarships for Australian and New Zealand students the deadline is 31st October 2005. The RSPAS also has funding available for tuition and full scholarships for outstanding students. The successful candidate will be expected to commence between 2nd Jan and 31st Mar 2006. Application forms for both international (IPRS) and local (APA) scholarships are available at <http://www.anu.edu.au/sas/forms/>

**For further information about this project contact:**

\*\*\*\*\*

Dr Simon Haberle  
Department of Archaeology and Natural History  
Research School of Pacific and Asian Studies  
ANU, Canberra 0200  
Email: [simon.haberle@anu.edu.au](mailto:simon.haberle@anu.edu.au), tel: +61 2 6125 3373  
Homepage: [http://rspas.anu.edu.au/people/personal/haberle\\_rmap.html](http://rspas.anu.edu.au/people/personal/haberle_rmap.html)

Relevant web links:

- PalaeoWorks <http://palaeoworks.anu.edu.au/>
- Department of Archaeology and Natural History <http://rspas.anu.edu.au/anh/>
- Australian National University Graduate School  
<http://www.anu.edu.au/graduate/scholarships/>
- Research and Conservation Foundation of PNG <http://www.rcf.org.pg/home.html>
- Wildlife Conservation Society, Papua New Guinea  
<http://www.wcs.org/international/Asia/175994>

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**THE AFIARTIS PROJECT, EXCAVATION  
OF MINOAN SETTLEMENT ON  
KARPATOS BY THE UNIVERSITY OF  
THRACE, REQUEST FOR EXPERIENCED  
STUDENTS**

Students with excavation experience, including trench supervising and personal engagement with actual digging, are requested by the above project (20 VIII - 20 IX). Those interested are required to submit some information on their experience.

Please contact:

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Ass. Prof. Manolis Melas  
[emelas@he.duth.gr](mailto:emelas@he.duth.gr)  
Tel. + 694 75 79 434

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## **UNIVERSITY OF ST ANDREWS,** **SCHOOL OF GEOGRAPHY AND** **GEOSCIENCES, RESEARCH FELLOW**

**Salary - £19,460 - £21,640 pa**

This three-year NERC funded position, starting on 1 October 2005, or as soon as possible thereafter, is available to work on the chemical characterization of artificial and natural charcoals. You will be based in St Andrews and will play central role within a NERC-funded collaborative research programme also involving investigators at the Universities of Oxford, Nottingham and Edinburgh. You will, under direction from the investigators, prepare a suite of artificial charcoals and select a suite of natural charcoals for analysis using a range of techniques including nuclear magnetic resonance, elemental and stable-isotope analysis, X-ray photoelectron spectroscopy, electron microscopy, hydrolysis, raman spectroscopy, gas chromatography and radiocarbon dating. The outcome of the research programme will be a deeper understanding of the stability and behaviour of charcoal under a range of environmental conditions, of relevance to archaeology, radiocarbon dating and carbon cycle research. Previous direct laboratory research experience with one of the above techniques is essential and experience with more than one technique is highly desirable. Previous experience working with charcoal/black carbon in the context of archaeology, radiocarbon dating or carbon cycle research is also highly desirable.

Informal enquiries to Prof Michael Bird ([michael.bird@st-andrews.ac.uk](mailto:michael.bird@st-andrews.ac.uk), Tel: 01334 463940)

**Please quote ref: CD265/05**

**Closing Date: 15 August 2005**

Application forms and further particulars are available from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571, by fax 01334 462570 or by e-mail [Jobline@st-andrews.ac.uk](mailto:Jobline@st-andrews.ac.uk)). The advertisement and further particulars can be viewed at <http://www.st-andrews.ac.uk/hr/recruitment/vacancies>.

The University is committed to equality of opportunity.

## School of Geography and Geosciences

### Research Fellow

#### Introduction

Combustion is an important process by which carbon is returned to the atmosphere, and fire is a basic tool that humans have used for many thousands of years. One of the products of burning is charcoal, which is formed when wood is not completely combusted. While charcoal is more resistant to decay than wood, it is not yet clear what happens to charcoal after it is formed. Some charcoal is clearly very resistant to decay and can survive for many thousands of years, while other charcoal can apparently ‘decay’ by mechanisms that are not yet well understood. How charcoal decays may be determined by what material was burnt and the conditions under which it was burnt, but it may also depend on the local environmental conditions where the charcoal was subsequently buried. While there is a growing body of research on ‘black carbon’ in the environment, the role of charcoal has received less attention, despite charcoal being of considerable significance in at least the areas of carbon cycle research, archaeology (radiocarbon dating) and palaeoenvironmental reconstruction.

This project aims to better understand how charcoal decays in the natural environment, by determining how much charcoal is actually resistant to decay (and is therefore locked away from the active carbon cycle). It also aims to improve carbon dating of charcoal and develop ways to identify previously dated samples where the dates may not be reliable. We will do this by bringing together researchers from geochemistry, archaeology and pure chemistry to investigate the chemistry of charcoal samples we produce under controlled conditions and natural samples taken from sites with different environmental conditions.

The three-year position associated with this project, starting on October 1st, 2005 or as soon as possible thereafter, is available to work on the chemical characterization of artificial and natural charcoals. The successful candidate, based at the University of St. Andrews, will play central role within a NERC-funded collaborative research programme also involving investigators at the Universities of Oxford, Nottingham and Edinburgh. The candidate will, under direction from the investigators, prepare a suite of artificial charcoals and select a suite of natural charcoals for analysis using a range of techniques including nuclear magnetic resonance, elemental and stable-isotope analysis, X-ray photoelectron spectroscopy, electron microscopy, hydrolysis, raman spectroscopy, gas chromatography and radiocarbon dating. Previous direct laboratory research experience with one of the above techniques is essential and experience with more than one technique is highly desirable. Previous experience working with charcoal/black carbon in the context of archaeology, radiocarbon dating or carbon cycle research is also highly desirable.

## **THE UNIVERSITY OF ST ANDREWS**

The University of St Andrews, founded in 1410, is the oldest in Scotland. It occupies what is arguably the most attractive site of all British universities, being located within a



small university town with a population of around 16,000, overlooking the sea on two sides with views north to the Grampian Highlands.

St Andrews is an ancient seat of learning and one of the UK's most forward-looking universities. The University is presently enjoying particular success with its performance in both research and teaching being judged the best in Scotland. League table rankings place it firmly in the UK top ten.

### **The Environment of St Andrews**

The town enjoys a very good quality of life and is an excellent environment for young families. The climate is relatively dry and winters less severe than might be expected. Popular outdoor activities include golf, running, hill walking/climbing in summer, and skiing in winter. The town has spectacular ruins of a mediaeval cathedral and castle, and the University occupies many of the other historic buildings in the town.

The town is about one hour's drive from Edinburgh and has frequent rail connections with the south from nearby Leuchars station. There are hourly flights between Edinburgh and London, and Glasgow airport is less than two hours away by road, with daily flights to the Eastern and central United States from Spring through Autumn. St Andrews offers easy access to the Scottish Highlands.

### **The School of Geography and Geosciences**

The School of Geography and Geosciences was created in 1997 through the amalgamation and restructuring of the former Departments of Geography and Geology. Since 2000, the School has occupied the Irvine Building, which is located near the town centre and overlooks the North Sea. The School is a cost centre within the University, and thus has independent responsibility for managing its finances. The Head of School (currently Dr Elspeth Graham) has overall responsibility for all School operations, and is supported by a Management Committee that represents all academic sectors within the School. Responsibility for the undergraduate teaching programmes is delegated to separate Geography and Geoscience Teaching Convenors.

### **The Irvine Building**

The School is based in the Irvine Building near the centre of the town. It houses all staff and facilities in the School and almost all teaching is carried out within the building. The working environment of the School of Geography and Geosciences is informal and friendly. There is a Common Room used by both staff and students, and flourishing undergraduate Geographical and Geological Societies that organise talks by visiting speakers and numerous social events that help to foster a relaxed and informal relationship between staff and students.

### **Current staff & postgraduates**

The current complement of academic staff within the School is given below. There are also ten postdoctoral fellows in the School and more are in the process of being appointed. Support staff within the School include a cartographer, a computing officer, a research/postgraduate support technician, three laboratory technicians, one teaching support technician & curator, and three secretaries; the senior secretary also acts as School accountant.

There are currently 14 PhD students carrying out research in Physical Geography or Geoscience and a further seven in Human Geography.

### *Academic Staff and their research interests*

#### **Professors**

|                             |  |
|-----------------------------|--|
| *Professor Colin Ballantyne | Geomorphology; Quaternary landscape evolution. |
| Professor Paul Boyle        | Health Geography: migration and health         |
| Professor Robin Flowerdew   | Population migration and mobility              |
| *Professor Michael Bird     | Environmental change                           |
| Professor Joe Doherty       | Housing and Urban Studies                      |

## **Readers**

|                    |  |
|--------------------|--|
| *Dr Bill Austin    | Quaternary environmental change, palaeoclimatology |
| *Dr Doug Benn      | Glaciation, glacier dynamics and climate change    |
| Dr Colin Donaldson | Petrology of basalts and ultramafic rocks          |
| Dr Grahame Oliver  | Crustal Geodynamics, tectonics & metamorphism      |
| Dr Tony Prave      | Tectonostratigraphy, sedimentary basins            |

## **Senior Lecturers**

|                    |  |
|--------------------|--|
| Dr Andrew Dawson   | Economic geography; Central and Eastern Europe       |
| Dr Elspeth Graham  | Population geography; historical demography          |
| Dr Ed Stephens     | Environ. mineralogy and health, igneous petrogenesis |
| *Dr John Walden    | Environmental magnetism, glacial sedimentology       |
| *Dr Charles Warren | Glaciology; environmental management                 |

## **Lecturers**

|                   |   |
|-------------------|---|
| Dr Ian Alsop      | Structural geology and tectonics                    |
| *Dr Richard Bates | Environmental geophysics, habitat mapping           |
| Dr Dan Clayton    | Historical geography; colonialism & postcolonialism |
| *Dr Peter Cundill | Pollen analysis; modern pollen rain                 |
| *Dr Adrian Finch  | Mineralogy and environmental change, luminescence   |
| Dr Michael Kesby  | Gender, HIV, Southern Africa                        |
| *Dr Ruth Robinson | Clastic sedimentology, tectonic geomorphology, OSL  |
| Dr Lisa Law       | Health and social geography, gender                 |

### *(\* Environmental Change Research Group)*

#### **Research**

The School currently has a Research Assessment rating of 4 and the University is strategically investing with the aim of achieving a rating of 5 for the School in the next Research Assessment Exercise. To further this aim, three collaborative research groupings have been established within the School: the Environmental Change Research Group, the Crustal Geodynamics Research Group and the Population Health and Welfare Research Group. These groups form foci for the discussion of research, collaborative work within the School, attracting external funding and supervision of postgraduate students.

The appointee will be expected to play a constructive role in the ongoing development of the Environmental Change Research Group (ECRG). This group has as its prime focus research devoted to various aspects of environmental change and reconstruction covering the period from the Last Glacial Maximum to the present day. Further information concerning ECRG is available at the School web site:  
[[http://www.st-and.ac.uk/~www\\_sgg/schoolpage.html](http://www.st-and.ac.uk/~www_sgg/schoolpage.html)].

The School operates a weekly research seminar programme in which both visiting and staff and St Andrews staff and postgraduate students participate. 'Brown Bag' seminars are held on Wednesday at 1300, and often given by St Andrews staff or postgraduates. 'World Series' Seminars are scheduled for 1600 on Thursdays and are given by distinguished external researchers.

### **Research equipment and facilities**

The Irvine building houses the Facility for Earth and Environmental Analysis (FEEA - <http://www.st-andrews.ac.uk/gg/Research/FEEA/newindex.shtml>) and therefore the School is outstandingly well equipped to support research in all aspects of environmental change research.

Laboratories and equipment within the FEEA include:

- Finnigan Delta Plus XP stable isotope mass spectrometer, elemental analyzer and gas bench
- Physical Lab for preparing soils & sediments, laser granulometry
- X-ray Lab for XRF analysis of major and trace elements and XRD analysis of mineralogy (including Rietveld quantitative analysis)
- Electron Microprobe and microscope Lab for electron beam imaging and analysis of minerals
- Environmental Magnetics Lab with comprehensive facilities
- Luminescence Lab for OSL and other luminescence dating techniques
- Pollen Lab for preparing pollen separates
- Microscope Lab for foram and pollen counting
- Core Lab used for sampling forams and chemical studies from marine and nearshore cores with associated cold store
- Research IT Lab with high spec PCs for GIS, workstations, large format scanners, digitisers and plotters
- Mechanical Workshops for making thin sections (including impregnations) and constructing small items of research equipment
- Rock preparation Labs for crushing rock samples and separating minerals

These laboratories are supported by the School's technical staff, and there is additional technical support in the form of a cartographic and design service, and curatorial support. Additional materials characterisation facilities are available through the School's membership of the St Andrews Centre for Advanced Materials (StACAM) based largely in the Schools of Chemistry and Physics.

A comprehensive array of sampling, surveying and environmental geophysical equipment is available. The School possesses two minibuses, an estate car and a 21 metre towable research vessel, all of which are available for research purposes.

The University Library is about two minutes walk from the Irvine Building, and houses the periodical collection and textbooks. As well as hard copy journals the University

subscribes to several important databases including the Web of Science, GeoRef, Geobase, and Science Direct. The School also has licences for ArcInfo and various UK digital map databases.

The School aims to provide 'seedcorn' financial support for research, and separate funds are available to promote staff attendance at conferences and field meetings. Staff are also entitled to apply to the Carnegie Trust for the Universities of Scotland, The Russell Trust and various other trust funds for funding in support of research.

### **Teaching in Geography and Geoscience**

In the most recent Teaching Quality Assessment exercise carried out by SHEFC (Scottish Higher Education Funding Council), Geography teaching at St Andrews was rated 'excellent' and Geology teaching as 'highly satisfactory'.

The School has two flagship degree programmes: a single Honours MA or BSc Degree in Geography and a single Honours BSc degree in Geoscience. Both Geography and Geoscience may also be taken as joint degrees in combination with a wide range of other subjects outside the School (e.g. Geoscience and Environmental Biology; Geography and Mathematics). Both degree programmes involve four years of study, as is normal in the Scottish Higher Education system. All degree programmes in the University of St Andrews are modular, and require students to obtain at least 120 credits from courses successfully completed in the first year of study, 120 credits from courses completed in the second year of study, and 240 credits over the third and fourth (Honours) years. In the first and second year of study, students obtain credits in pre-Honours courses both within and outside the school. Teaching is carried out over two semesters between September and May. Most modules in the School are of one semester's duration (15 weeks, including a two-week examination period).

On average, about 160-200 students take the first year Geography courses, 90-130 take the second year Geography courses, and 50-70 students pursue the Geography Honours programme in both the third (Junior Honours) and fourth (Senior Honours) year of study. The figures for students taking the Geoscience Programme average about half those for the Geography programme. A large number of students take both programmes in their pre-Honours years.

The School is actively developing taught Masters courses. An MRes in *Health Geography* started in September 2002 and an MSc in *Managing Environmental Change* will begin in September 2003 as a shared course with the nearby University of Dundee.

### **Further information**

Prospective applicants are invited to discuss the advertised position with Professor Michael Bird (email: Michael.bird@st-andrews.ac.uk; Tel: 01334 463940) candidates and are particularly welcome to visit the department to view the facilities available and to meet current members of staff.

Further information on the School is available at:  
[http://www.st-and.ac.uk/~www\\_sgg/schoolpage.html](http://www.st-and.ac.uk/~www_sgg/schoolpage.html).

Shortlisted applicants may be required to give a presentation on their research work and to attend a formal interview.

**Please Quote ref: CD265/05**

Completed application forms together with a CV and covering letter should be returned to, Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, Fax: 01334 462570 or via our Website **not later than 5 pm on 15 August 2005. Please note - that applications received after this time will not be processed. We regret there are no mail box facilities after office hours (Mon – Fri - 9 am - 5 pm) for receipt of applications.**

The University is committed to equality of opportunity.

**Successful candidates will be shortlisted within six weeks of the closing date. If you have not been contacted within this period your application has been unsuccessful on this occasion.**



# **STUDENTSHIP IN AFRICAN PALYNOLOGY: THE IMPACT OF TOBA ERUPTION, INSTITUTE FOR THE ENVIRONMENT (BRUNEL UNIVERSITY, WEST LONDON, UK**

Three PhD Studentships Available!

The Institute for the Environment (Brunel University, West London, UK) will be offering 3 PhD studentships for the coming academic year.

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## **Topic for one of them:**

"Reconstruction of past environments from palynological study of lacustrine sediment in the Kenya rift, focussing on the impact of the mega-Toba (Western Sumatra) eruption on human evolution 71,000 years ago"

The overall aim of this project is to evaluate the global environmental consequences of a major volcanic eruption. The eruption was that of Toba volcano in northern Sumatra ~71 000 years ago. This eruption is widely regarded as the largest in the last two million years, and would have had significant effects upon the global climate. It took place at a critical time in human cultural evolution, and a prolonged period of global cooling triggered by the eruption may have caused widespread extinctions of the biota, and a severe reduction in the human population. The ensuing social and economic adaptations by human societies to this extreme event may have paved the way for subsequent migrations out of Africa into Europe and Asia and facilitated the transition from Middle to Later Stone Age culture and technology. A growing body of genetic evidence, notably from mitochondrial DNA, has revealed a human population bottleneck between ~100 and ~50 ka. During this interval the total world population was reduced to possibly 10,000-20,000 young males and females. Ambrose hypothesised that: <sup>3</sup>Six years of volcanic winter followed by 1000 years of the coldest, driest climate of the late Quaternary, may have caused low primary productivity and famine, and thus may have had a substantial impact on human populations<sup>2</sup>. The East African Rift is an ideal natural laboratory where to search for any trace of the Youngest Toba Tephra, especially in the lake basins of the Kenya Rift where we have located many scores of archaeological occurrences (task of partner). The shallow lakes of the southern and central Kenya Rift are highly sensitive to even quite minor climatic fluctuations. The lake sediments, often diatomites, contain a detailed record of past volcanic eruptions in the form of interstratified ash bands. The ashes can be fingerprinted using geochemical methods and dated very precisely using argon/argon dating techniques (task of our partners). The diatomites also contain pollen grains and other organic-walled microfossils (e.g., green algae, cyanobacteria) indicative of local (aquatic and terrestrial) and regional vegetation. The key aim of his studentship is to test the hypothesis of volcanic winter by high resolution sampling of diatomites in Kenya for pollen analysis.

Combined studies of palynomorphs and diatoms (the latter is the role of our partners) are still relatively rare and offer a fruitful avenue for reconstructing local and regional environmental changes, including climate. This project uses this approach to provide primary palaeo-environmental data against which to compare the archaeological record and to seek evidence of any correlative ecological, demographic and cultural changes.

Fieldwork funded by the Australian Research Council, a grant obtained by Prof. Martin Williams, University of Adelaide, a geomorphologist of international standard with African experience. The other partners in this project are Prof. Stan Ambrose, archaeologist from Illinois, Professor Alan Deino, a geochronologist in the Berkeley Geochronology Center, and Dr John Tibby works in the Adelaide University Diatom Laboratory,

Starting date: between Sept and Dec 05.

Fieldwork six weeks in June 2006.

Duration: 3 yrs

Preference given to a student who has a master in palynology.

Supervisors for the palynology: Professor Suzanne Leroy and Professor John Dodson

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The studentships will be available to home/EU students and will cover the cost of fees and living (final figure to be confirmed shortly). Please visit our research pages ([www.brunel.ac.uk/about/acad/ife/](http://www.brunel.ac.uk/about/acad/ife/)) to view the research areas we specialise in and contact the lead researcher in that area for more details.

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ICSU Dark Nature: [www.mun.ca/canqua/ICSU-DN/](http://www.mun.ca/canqua/ICSU-DN/)

IGCP 490: [www.mun.ca/canqua/igcp490/](http://www.mun.ca/canqua/igcp490/)

EU-RELIEF project: <http://eost.u-strasbg.fr/recherche/projet/RELIEF.html>

## **GADAM SCIENTIFIC STAY** **OPPORTUNITIES**

The GADAM Centre offers two three-month or one six-month scientific stays for non-Polish, young scientists or PhD students. The stay/-s are expected to take place in the period from September 2005 to February 2006.

The research should be in a field connected with the GADAM Centre activities, i.e.

- radiocarbon dating (graphitisation of samples for AMS, gas counting and liquid scintillation techniques)
- luminescence dating (OSL and TL),
- isotope research of modern environment using stable and radio-isotopes (mass spectrometry;
- high resolution gamma spectrometry; alpha spectrometry).

Additional information about the GADAM Centre activities can be found on the Web Site.

The fellow will be expected to participate in the research of the Centre. The activities will include:

- experimental work,
- statistical analysis of experimental data,
- environmental interpretation of results etc.
- The topics of investigations include
- timescales for environmental change (0-250 ka BP)
- timescales for cultural history (0-250 ka BP)
- stable isotopes in biosphere and sediments as climate change indicators
- geochemical cycle of  $^{137}\text{Cs}$  and  $^{210}\text{Pb}$

The successful candidate will also be able to work on their own problems from their PhD thesis or research – the details can be agreed up on beforehand.

The stay is funded in the framework of the GADAM Centre of Excellence project. It involves a tax-free stipend of 600€ per month and travel cost reimbursement.

Interested candidates should contact [gadam@carbon14.pl](mailto:gadam@carbon14.pl)

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# **AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS, WHITEHEAD PROFESSORS POSITION AD**

## POSITIONS AVAILABLE

### ELIZABETH A. WHITEHEAD VISITING PROFESSORS

Two Positions

Term: Early September 2006, to June 1, 2007.

Compensation: \$24,000, plus round-trip airfare, housing and board at the School.

Qualifications: Managing Committee Member or staff member at a Cooperating Institution; a research project which utilizes the facilities of the School and enriches the academic program of the School.

Duties: None. (Whitehead Professors, however, traditionally make use of the opportunity, which their presence at the School affords to offer a seminar during the winter term on the subject of their expertise or contribute to the academic program in some other significant way.)

#### Application:

- a) Curriculum vitae and list of publications.
- b) Statement of current and projected research.
- c) One page description of proposed seminar or other contribution to the academic program.
- d) Account of the frequency and length of earlier visits to Greece.
- e) Three letters of recommendation should be sent directly to the address below.
- f) Applicants may be asked to interview at the annual AIA/APA meetings.

Send application to:

Professor Kevin Clinton  
Chair, Committee on Personnel  
American School of Classical Studies at Athens  
6-8 Charlton Street  
Princeton, NJ 08540-5232.  
Tel: 609-683-0800 Fax: 609-924-0578  
E-mail: [ascsa@ascsa.org](mailto:ascsa@ascsa.org) Web site: <http://www.ascsa.edu.gr>

POSTMARK DEADLINE: SEPTEMBER 30, 2005.

The appointments will be announced January 8, 2006.

The American School of Classical Studies at Athens does not discriminate on the basis of

race, age, sex, sexual orientation, color, religion, national or ethnic origin, or disability when considering admission to any form of membership or application for employment.

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## *INTERNET SITES*

# AEGEANET DIGEST 934

Random Samples for 7/27/05

Updates to the [Archaeology@About.com](mailto:Archaeology@About.com) webpage for the two weeks ending 27 July 2005:

Articles:

Desperately Seeking Atlantis

<http://archaeology.about.com/od/controversies/a/atlantis05.htm>

A search for the lost continent of Atlantis includes a bathymetric investigation of an island in the right place, under the right circumstances--but at the wrong time. With a response by Marc-Andre Gutscher.

South America's Oldest Writing System

<http://archaeology.about.com/od/ancientwriting/a/caralquipu.htm>

Archaeological evidence of quipu recovered from an archaeological site belonging to the ancient civilization of Caral in coastal Peru is nearly as old as Mesopotamian cuneiform and has the potential to rewrite the history of human civilization on planet earth.

New Glossary Entries

<http://archaeology.about.com/od/glossary/>

Da But (Vietnam), Tell el Dab'a (Egypt), Dadiwan (China), Dahaneh Gholaman (Iran), Dahshur (Egypt), Dali Cranium (China), Dalton Culture, Danebury (UK), Danger Cave (USA), Daoism - Taoism, Dara (Egypt), Dadianzi (China), Darra-i-Kur (Afghanistan), Dartmoor (UK), Dawenkou Culture, Daxi (China), Tutankhamun's Tomb (Egypt), Uan Muhuggiag (Libya), Uaxactun (Guatemala), Ubeidiya (Israel), Ubaidian Culture, Ugarit (Syria), Ukhaidir (Iraq), Uluburun (Turkey), Decipherment, Debitage, Deir el-Medina (Egypt), Delos (Greece), Delphi (Greece), Denbigh Flint Culture, Dendrochronology, Dhar Tichitt (Mauritania), Kastri Group

New Biographies

<http://archaeology.about.com/od/biographies/>

Edward Burnett Tylor [1832-1917], Tatiana Aveniurovna Proskouriakoff [1909-1985], Marija Alseikait? Gimbutas [1921-1994], Max Uhle [1856-1944], Ofer Bar-Yosef [b. 1937], Peter J. Ucko [b. 1938]

Quizzes:

Tutankhamun's Tomb

<http://archaeology.about.com/library/games/bltut.htm?nl=1>

Ologesailie

<http://archaeology.about.com/library/games/blolorgesailie.htm>

Please distribute at will, and thanks! For reading.

\*\*\*\*\*

K. Kris Hirst  
Guide for Archaeology @ About.com  
[archaeology.guide@about.com](mailto:archaeology.guide@about.com) & <http://www.wasteflake.com>

Quote of the Week: Culture is the jam in the sandwich of anthropology. - Robert Foley  
and Marta Lahr

More quotes at: <http://archaeology.about.com/od/quotations/>

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## DAMMING THE EUPHRATES ON TAC

Friends and colleagues: Sometimes living people and archaeological sites are subjected to the same threats. Such is the case with the inundation of Zeugma, described by *Damming the Euphrates*, the latest video feature on our nonprofit streaming-media Web site, *The Archaeology Channel* (<http://www.archaeologychannel.org>).

In June 2000, the world media gave extensive coverage to the flooding of the Euphrates River behind a dam in southeast Turkey. As the waters rose, Zeugma, an important Roman city containing high quality mosaics, was inundated in the Euphrates' depths. At the same time, towns and villages disappeared beneath the new lake. Produced in Turkey, this film raises questions of government policies and sustainable development. It tells the story of the mosaics as well as that of the displaced people, some of whom turned to antiquities trafficking to replace lost income.

This and other programs are available on TAC for your use and enjoyment. We urge you to support this public service by participating in our Membership (<http://www.archaeologychannel.org/member.html>) and Underwriting (<http://www.archaeologychannel.org/sponsor.shtml>) programs. Only with your help can we continue and enhance this nonprofit public-education and visitor-supported service. We also welcome new content partners as we reach out to the world community.

Please forward this message to others who may be interested and let us know if you wish to be removed from our mailing list.

\*\*\*\*\*

Richard M. Pettigrew, Ph.D., RPA  
President and Executive Director  
Archaeological Legacy Institute  
<http://www.archaeologychannel.org>

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***ΝΕΕΣ ΕΚΔΟΣΕΙΣ – NEW PUBLICATIONS***

**RADIOCARBON VOL. 47 NO. 2**  
**(AUGUST 2005)**

**Record 1.**

TI: From the Editor

AU: Timothy Jull, A.J.

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: v-v(1)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00001>

Click on the URL to access the article or to link to other issues of the publication.

**Record 2.**

TI: Paul Edward Damon (1921-2005)

AU: Timothy Jull, A.J.; Barbetti, Mike; Haynes, Vance

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: vii-xii(1)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00002>

Click on the URL to access the article or to link to other issues of the publication.

**Record 3.**

TI: Use of Three Isotopes to Calibrate Human Bone Radiocarbon Determinations from Kainapirina (SAC), Watom Island, Papua New Guinea

AU: Petchey, Fiona; Green, Roger

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 181-192(12)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00003>

Click on the URL to access the article or to link to other issues of the publication.

**Record 4.**

TI: Quality Controlled Radiocarbon Dating of Bones and Charcoal From the Early Pre-pottery Neolithic B (PPNB) of Motza (Israel)

AU: Yizhaq, Meirav; Mintz, Genia; Cohen, Illit; Khalaily, Hamudi; Weiner, Steve; Boaretto, Elisabetta

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 193-206(14)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00004>

Click on the URL to access the article or to link to other issues of the publication.

**Record 5.**

TI: The Neolithic Site of Serra Cicora: Results of the AMS Radiocarbon Dating

AU: Quarta, G.; D'Elia, M.; Ingravallo, E.; Tiberi, I.; Calcagnile, L.

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 207-210(4)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00005>

Click on the URL to access the article or to link to other issues of the publication.

**Record 6.**

TI: Determination of <sup>14</sup>C in Volcanic Gas by Accelerator Mass Spectrometry

AU: Yoshikawa, Hideki; Nakahara, Hiromichi; Imamura, Mineo; Kobayashi, Kouichi; Nakanishi, Takashi

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 211-219(9)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00006>

[47/00000002/art00006](http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00006)

Click on the URL to access the article or to link to other issues of the publication.

**Record 7.**

TI: AMS Radiocarbon Dating of the Fengxi Site in Shaanxi, China

AU: Guo, Zhiyu; Liu, Kexin; Yuan, Sixun; Wu, Xiaohong; Li, Kun; Lu, Xiangyang; Wang, Jinxia; Ma, Hongji; Gao, Shijun; Xu, Lianggao

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 221-229(9)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00007>

Click on the URL to access the article or to link to other issues of the publication.

**Record 8.**

TI: Simultaneously Measuring <sup>14</sup>C and Radon in Benzene Dating Samples

AU: Theodorsson, Pall

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 231-234(4)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00008>

Click on the URL to access the article or to link to other issues of the publication.

**Record 9.**

TI: AMS Radiocarbon Dates of Kurgans Located on the Ust'-Yurt Plateau, Uzbekistan

AU: Blau, Soren; Yagodin, Vadim

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 235-241(7)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00009>

Click on the URL to access the article or to link to other issues of the publication.

**Record 10.**



TI: AMS 14C Dating of Pollen Concentrate from Late Pleistocene Ice Wedges from the Bison and Seyaha Sites in Siberia

AU: Vasil'chuk, Alla; Kim, Jong-Chan; Vasil'chuk, Yuriy

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 243-256(14)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00010>

Click on the URL to access the article or to link to other issues of the publication.

#### **Record 11.**

TI: Reconstruction of Past CO<sub>2</sub> Concentration at a Natural CO<sub>2</sub> Vent Site Using Radiocarbon Dating of Tree Rings

AU: Marzaioli, Fabio; Lubritto, Carmine; Battipaglia, Giovanna; Passariello, Isabella; Rubino, Mauro; Rogalla, Detlef; Strumia, Sandro; Miglietta, Franco; D'Onofrio, Antonio; Cotrufo, M Francesca; Terrasi, Filippo

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 257-263(7)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00011>

Click on the URL to access the article or to link to other issues of the publication.

#### **Record 12.**

TI: A Radiocarbon Chronology of Hunter-Gatherer Occupation from Bodega Bay, California, USA

AU: Kennedy, Michael A.; Russell, Ann D.; Guilderson, Tom P.

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 265-293(29)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00012>

Click on the URL to access the article or to link to other issues of the publication.

#### **Record 13.**

TI: An Assessment of Radiocarbon Dates from Palau, Western Micronesia

AU: Liston, Jolie

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 295-354(60)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00013>

Click on the URL to access the article or to link to other issues of the publication.

**Record 14.**

TI: Book Review

AU:

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 355-356(2)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00014>

Click on the URL to access the article or to link to other issues of the publication.

**Record 15.**

TI: Radiocarbon Updates

AU:

JN: Radiocarbon

PD: August 2005

VO: 47

NO: 2

PG: 357-357(1)

PB: Arizona Board of Regents (University of Arizona)

IS: 0033-8222

URL:

<http://www.ingentaconnect.com/search/expand?pub=infobike://arizona/rdc/2005/00000047/00000002/art00015>

Click on the URL to access the article or to link to other issues of the publication.

## **NEWS FROM LEFT COAST PRESS, INC.**

I'm pleased to announce the first set of publications from the new archaeological publisher, Left Coast Press, Inc. These books include.

Doing Archaeology: A Cultural Resource Management Perspective, by Thomas F. King, a supplement for introductory archaeology courses and other novices to explain how CRM archaeology is practiced in contemporary North America. Available August 20. \$21.95 paperback, \$59 cloth.

Introduction to Rock Art Research, by David S. Whitley, an introductory textbook to the methods of researching rock art and related materials. Available early September. \$24.95 paperback, \$59 cloth.

Writing Archaeology: Telling Stories About the Past, by Brian Fagan, a brief instructional guide for archaeologists who wish to write for a broad public audience. Available November. \$24.95 paperback, \$59 cloth

Ancient Starch Research, edited by Robin Torrence and H.J. Barton, a comprehensive volume showing the possibilities of studying ancient starch to improve our knowledge of past human behavior and environmental variation. Available December. \$69.95, cloth only.

Several archaeology book series have also been launched.

Left Coast Press, Inc. is distributed by University of Arizona Press. Orders can be placed by mail 355 S. Euclid Ave., Suite 103, Tucson, AZ 85719; phone or fax 1-800-426-3797, (outside continental U.S., 1-520-626-4218 phone, 1 520 621-8899 fax); email [orders@uapress.arizona.edu](mailto:orders@uapress.arizona.edu), or on the web: [www.uapress.arizona.edu/secscr/Ordersec.pl](http://www.uapress.arizona.edu/secscr/Ordersec.pl)

Left Coast Press, Inc. was launched this year by Mitch Allen, founder and former director of AltaMira Press, to provide archaeologists with useful research, textbooks, reference, and professional materials. For further information on these books, series, or the press, go to [www.LCoastPress.com](http://www.LCoastPress.com).

thanks

Mitch Allen

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Mitch Allen

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