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ΣΥΝΕΔΡΙΑ - CONFERENCES/WORKSHOPS

**CYPRIOΤ IDENTITY IN PREHISTORY
AND HISTORY, THE BRISTOL
INSTITUTE OF GREECE, ROME AND
THE CLASSICAL TRADITION**

**Departments of Archaeology, and Classics & Ancient
History**

University of Bristol, 4 September 2004

This conference brings together prehistorians, historians and anthropologists working on Cypriot identity from the Bronze Age to modern times in order to explore issues of identity on the island. Scholars from these three disciplines address similar issues under the rubric of identity, but often approach them in quite different ways. Part of the purpose of this conference will be to explore common ground methodologically. Specific questions include: how do we describe and assess identity? What are the contributions of material culture, memory, cultural construction, education to the fashioning of identity? What difference does insularity make? What work are words like homogeneity, heterogeneity, and syncretism doing? Is there such a thing as the *longue durée*? What role do archaeology and history themselves play in modern Cypriot identity?

This conference is sponsored by the Bristol Institute of Greece, Rome and the Classical Tradition, with the generous assistance of the Government of Cyprus.

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THE PAROS AND THE CYCLADES
INSTITUTE OF ARCHAEOLOGY

SECOND INTERNATIONAL
CONFERENCE ON THE ARCHAEOLOGY
OF PAROS AND THE CYCLADES

ARCHILOCHOS AND HIS AGE

October 1-3, 2004, Paroikia, Paros, Greece

AIMS OF THE CONFERENCE

The *Second International Conference on the Archaeology of Paros and the Cyclades* will take place in the capital of Paros, Paroikia, in the first days of October, 2004. The Conference will be dedicated to Archilochos, the greatest known personality of Paros and one of the most remarkable poets after Homer in antiquity. Archilochos is the earliest Greek poet, whose personality and life can be grasped through the mists of antiquity, on whom we possess not only works of his poetry, but also a marble heroon (the Archilocheion), dedicated by the Parians to his memory. His work reveals invaluable information about social and political evolutions on Paros and the Aegean in the first half of the 7th c. B.C. The wealth of information provided by the poet about his city compelled the late Prof. Kontoleon to view Archilochos as the most perfect “Poet of the Polis”. The *Second International Conference on the Archaeology of Paros and the Cyclades* will be dedicated to the memory of Nikolaos Kontoleon, whose research has opened new horizons in the study of the age of Archilochos (first half of the 7th c. B.C.).

Forty years after the Geneva meeting on Archilochos organized by the *Fondation Hardt* (August 26 – September 3, 1963) with the participation of renowned specialists (J. Pouilloux, N. M. Kontoleon, D. Page, O. Reverdin, B. Snell, etc.), the *Paros and Cyclades Institute of Archaeology*, in collaboration with the Township of Paros, is organizing this Conference to examine the major and most recent developments in the study of Archilochos and his days, as resulting from research in the fields of Greek philology, epigraphy, history and archaeology.

The *Second International Conference on the Archaeology of Paros and the Cyclades* will be an interdisciplinary meeting, intended to bring together distinctive specialists in the field of humanities from all parts of the world. The Conference is addressed to archaeologists, philologists, historians and epigraphists. All new archaeological and epigraphical data associated with the early Archaic period (first half of the 7th c. B.C.) of the Aegean -a period coinciding with the *floruit* of the famous lyric poet of Paros- are expected to be analyzed in the Conference.

TRAVEL, ACCOMMODATION

To this end, our Institute and the Paros Township are in continuous contact in making practical arrangements for the successful preparation of the meeting. The Conference will take place in a central Conference Hall at Paroikia, Paros. All speakers are expected to be at Paroikia on Thursday, September 30, 2004. As the Conference and the accompanying celebrations will last until Sunday the 3rd of October, the speakers should leave Paros on Monday, October 10.

The Organizing Committee is pleased to address an open invitation to all those wishing to attend the lectures. For the speakers, the cost of accommodation and meals will be borne by the Conference. The Paros Township will offer a financial support to the trip of all key lecture speakers by contributing 600 Euros to the purchase of air travel tickets (R/T) from the country of departure to Greece. Guided tours, special events and other celebrations will be offered to honor the participants of the Conference.

The papers of the Archilochos Conference will be published in a separate volume.

The lectures will be under the following thematic titles:

PART I: PHILOLOGY

1. Archilochos and Tradition
2. Archilochos the Poet
3. Archilochos the Warrior
4. Archilochos, as “Poet of the Polis”
5. Archilochos and Religion
6. Archilochos the Lover
7. Archilochos and his Translators
8. Archilochos and Contemporary Culture

PART II: ARCHAEOLOGY AND HISTORY

1. The Mycenaean Background of Paros
2. The Emergence of the Polis - the Asty of Paros
3. Archilochos, Politics and Democracy
4. Archilochos and Parian Colonies
5. Archilochos and the Colonization of Thasos
6. End of Kingship, Emergence of Aristocracy in the Aegean
7. Paros and Contacts with Euboea and Mainland Greece
8. Archilochos, Paros and the Aegean and Ionic World
9. Archilochos and Parian Culture in the Archaic Age
10. Archilocheion and Heroization of Archilochos

LANGUAGE

Greek and English will be the official languages of the Conference for presentations, abstracts and publications. Although, papers can be presented at the Conference in other languages. Simultaneous translation will be provided only for Greek and English.

ORAL PRESENTATIONS

Each speaker will be allocated 15 minutes for the presentation of a paper, followed by 5 minutes discussion. The lectures of keynote speakers will last 25 minutes.

ABSTRACTS

Authors are invited to submit an abstract up to one full page, including figures and references, if any. The title block should include name(s) of author(s), affiliation(s) and present mailing address including e-mail address. Abstract may be submitted in a digital format by e-mail, and in addition by normal mail.

ORGANIZERS

THE PAROS AND CYCLADES INSTITUTE OF ARCHAEOLOGY with the collaboration of the TOWNSHIP OF PAROS.

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8^ο ΣΥΝΕΔΡΙΟ ΧΗΜΕΙΑΣ ΕΛΛΑΔΟΣ- ΚΥΠΡΟΥ, «ΧΗΜΕΙΑ, ΠΟΙΟΤΗΤΑ ΖΩΗΣ ΚΑΙ ΕΚΠΑΙΔΕΥΣΗ»

Θεσσαλονίκη, 10 έως 13 Δεκεμβρίου 2004

ΕΠΙΣΤΗΜΟΝΙΚΑ ΑΝΤΙΚΕΙΜΕΝΑ

Η Οργανωτική Επιτροπή έχει επιλέξει τα ακόλουθα επιστημονικά πεδία της Χημείας τα οποία θα καλυφθούν με προφορικές παρουσιάσεις ή με ανηρτημένες γραπτές ανακοινώσεις, ενώ θα οργανωθούν και δύο συμπόσια αφιερωμένα στους φορείς Ελέγχου Ποιότητας (π.χ. ΓΧΚ, ΕΦΕΤ) και στη Διδακτική της Χημείας στη Δευτεροβάθμια Εκπαίδευση.

Αγροχημεία, Αναλυτική Χημεία, Ανόργανη Χημεία, Βιοανόργανη Χημεία, Βιοργανική Χημεία, Βιομηχανικά και Αστικά Απόβλητα, Βιοτεχνολογία, Βιοϋλικά, Βιοχημεία, Γεωχημεία, Διδακτική της Χημείας, Έλεγχος Ποιότητας, Ενζυμολογία, Ηλεκτροχημεία, Κατάλυση, Κβαντική Χημεία, Κεραμικά υλικά, Λιπάσματα, Μακρομοριακή Χημεία, Μεταλλουργία, Μηχανισμοί Αντιδράσεων, Μοριακή Μοντελοποίηση, Οινολογία, Οργανική Χημεία, Οργανομεταλλική Χημεία, Πετροχημικά, Πρώτες ύλες, Ραδιοχημεία, Τεχνολογία Πολυμερών, Τεχνολογία Υφανσίμων Ινών, Τοξικολογία, Υπολογιστική Χημεία, Φαρμακευτική Χημεία, Φυσικοχημεία, Χημεία Περιβάλλοντος, Χημεία Πυριτίου, Χημεία Στερεάς Κατάστασης, Χημεία Τροφίμων, Χημεία Φυσικών Προϊόντων, Χημεία Χρωμάτων, Χημική Τεχνολογία, Χημική Εκπαίδευση

ΕΓΓΡΑΦΗ

Παρακαλούνται όσοι επιθυμούν να συμμετάσχουν στις εργασίες του Συνεδρίου να συμπληρώσουν το φυλλάδιο εγγραφής και να το στείλουν είτε ηλεκτρονικά είτε ταχυδρομικά στην διεύθυνση του συνεδρίου.

ΕΝΗΜΕΡΩΣΗ

Περισσότερες πληροφορίες για το Συνέδριο, τον τρόπο παρουσίασης των εργασιών και των ανηρτημένων γραπτών ανακοινώσεων καθώς και για την διαμονή στη Θεσσαλονίκη θα δοθούν στην ιστοσελίδα του συνεδρίου, <http://www.eex.gr>

ΔΙΚΑΙΩΜΑ ΕΓΓΡΑΦΗΣ

Συνεδροι: Μέχρι 30 Σεπτεμβρίου 2004: 90 Ευρώ, μετά την 1 Οκτωβρίου 2004: 100 Ευρώ, Φοιτητές (απαιτείται συστατική επιστολή): Μέχρι 30 Σεπτεμβρίου 2004: 30 Ευρώ, μετά την 1 Οκτωβρίου 2004: 50 Ευρώ. Στο δικαίωμα εγγραφής περιλαμβάνονται: Πρακτικά Συνεδρίου, τσάντα Συνεδρίου, συμμετοχή στην εναρκτήρια δεξίωση, συμμετοχή στα διαλείμματα για καφέ κλπ.

Σας παρακαλώ συμπληρώστε με κεφαλαία γράμματα και επιστρέψτε το παρακάτω φυλλάδιο εγγραφής είτε ηλεκτρονικά είτε ταχυδρομικά στις ανωτέρω διεύθυνσεις της Γραμματείας του Συνεδρίου

**8^ο Συνέδριο Χημείας Ελλάδος-Κύπρου
«Χημεία, Ποιότητα ζωής και εκπαίδευση»
Θεσσαλονίκη, 10 έως 13 Δεκεμβρίου 2004**

Φυλλάδιο Εγγραφής

ΕΠΩΝΥΜΟ.....

ΟΝΟΜΑ..... **ΤΙΤΛΟΣ**.....

ΕΡΕΥΝΗΤΙΚΟ ΙΔΡΥΜΑ

ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΔΙΕΥΘΥΝΣΗ

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Τηλ.:..... **ΦΑΞ:**..... **Email:**.....

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ΚΑΤΑΛΗΚΤΙΚΗ ΗΜΕΡΟΜΗΝΙΑ ΓΙΑ ΑΠΟΣΤΟΛΗ ΠΕΡΙΛΗΨΕΩΝ: 30η

Σεπτεμβρίου 2004. Παρακαλώ γράψτε το όνομα και τη διεύθυνση του συγγραφέα που θα παρουσιάσει την εργασία

.....

Υπογραφή.....

Ημερομηνία.....

ΤΡΟΠΟΣ ΠΛΗΡΩΜΗΣ

Το δικαίωμα εγγραφής μπορεί να καταβληθεί στη Γραμματεία του Συνεδρίου ή στα γραφεία της ΕΕΧ είτε με ταχυδρομική επιταγή είτε με πιστωτική κάρτα ή σε μετρητά κατά την διάρκεια του Συνεδρίου.

ΠΛΗΡΟΦΟΡΙΕΣ

Παρακαλούνται όλοι οι ενδιαφερόμενοι για το συνέδριο να απευθύνονται στην Γραμματεία του Συνεδρίου:

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Αντιπρόεδρος: Σ. Αγγελοπούλου

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ΟΡΓΑΝΩΤΕΣ ΤΟΥ ΣΥΝΕΔΡΙΟΥ

ΕΝΩΣΗ ΕΛΛΗΝΩΝ ΧΗΜΙΚΩΝ
ΠΑΓΚΥΠΡΙΑ ΕΝΩΣΗ ΕΠΙΣΤΗΜΟΝΩΝ ΧΗΜΙΚΩΝ
ΠΤ ΚΑΜ ΤΗΣ ΕΝΩΣΗΣ ΕΛΛΗΝΩΝ ΧΗΜΙΚΩΝ
ΤΜΗΜΑ ΧΗΜΕΙΑΣ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΘΕΣΣΑΛΟΝΙΚΗΣ
ΤΜΗΜΑ ΧΗΜΕΙΑΣ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΚΥΠΡΟΥ
ΓΕΝΙΚΟ ΧΗΜΕΙΟ ΤΟΥ ΚΡΑΤΟΥΣ ΕΛΛΑΔΟΣ
ΓΕΝΙΚΟ ΧΗΜΕΙΟ ΤΟΥ ΚΡΑΤΟΥΣ ΚΥΠΡΟΥ

ΟΔΗΓΙΕΣ ΣΥΓΓΡΑΦΗΣ ΤΗΣ ΠΕΡΙΛΗΨΗΣ ΚΑΙ ΤΟΥ ΕΚΤΕΝΟΥΣ ΚΕΙΜΕΝΟΥ

Οι ενδιαφερόμενοι για συμμετοχή στο 8ο Συνέδριο Χημείας Ελλάδος-Κύπρου θα πρέπει να υποβάλλουν συγχρόνως έως τις 30 Σεπτεμβρίου 2004 την περίληψη της εργασίας σύμφωνα με το **υπόδειγμα 1** και την πλήρη εργασία με έκταση μέχρι 5 σελίδες στην οποία μπορεί να περιλαμβάνονται πίνακες, σχήματα ή/και εικόνες σύμφωνα με το **υπόδειγμα 2**.

ΥΠΟΔΕΙΓΜΑ 1

ΟΔΗΓΙΕΣ ΣΥΓΓΡΑΦΗΣ ΤΗΣ ΠΕΡΙΛΗΨΗΣ

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ΠΕΡΙΛΗΨΗ

Γενικές οδηγίες

1. Η σελίδα που θα χρησιμοποιηθεί πρέπει να έχει περιθώρια 2,5 cm (αριστερά, δεξιά, πάνω και κάτω).
2. Κατά τη συγγραφή της περίληψης της εργασίας πρέπει να χρησιμοποιηθεί ένα πρόγραμμα WORD για Windows (98 ή XP).
3. Το κείμενο πρέπει να είναι γραμμένο σε γραμματοσειρά **Times New Roman** με χρήση **μονού** διαστήματος και γραμμάτων μεγέθους **12** (μόνο ο τίτλος της εργασίας θα πρέπει να γραφεί με γράμματα μεγέθους **14**).
4. Το κείμενο θα περιλαμβάνει τον τίτλο της εργασίας (γραμμένο με **κεφαλαία bold** γράμματα), τα ονόματα του ή των συγγραφέων (με **μικρά** γράμματα), τη διεύθυνση ή τις διευθύνσεις των συγγραφέων (με **μικρά italics** γράμματα), και την περίληψη που πρέπει να έχει έκταση όχι μεγαλύτερη από 10 σειρές.
5. Το κείμενο πρέπει να αποσταλεί με τη μορφή αρχείου doc και αρχείου pdf (για τον έλεγχο της ορθότητας του κειμένου)(Απαραίτητα και τα δύο).
6. Θα υπογραμμιστεί **το όνομα του συγγραφέως/ων που θα παρουσιάσει/ουν την εργασία** είτε προφορικά είτε με την μορφή πόστερ.

ΥΠΟΔΕΙΓΜΑ 2

ΟΔΗΓΙΕΣ ΣΥΓΓΡΑΦΗΣ ΤΟΥ ΕΚΤΕΝΟΥΣ ΚΕΙΜΕΝΟΥ

Δ. Κεσίσογλου¹, Σ. Αγγελοπούλου², Σ. Γωγάκος³

¹ Εργαστήριο Ανόργανης Χημείας, Τμήμα Χημείας Α.Π.Θ., 54124 Θεσσαλονίκη.

² Β' Χημική Υπηρεσία Θεσσαλονίκης, Ναυάρχου Βότση 1, 54625 Θεσσαλονίκη.

³ Αθηναϊκή Ζυθοποιία Α.Ε., ΒΙ.ΠΕ.Θ., 57022 Σίνδος Θεσσαλονίκης.

ΕΙΣΑΓΩΓΗ

Γενικές οδηγίες

1. Η σελίδα που θα χρησιμοποιηθεί πρέπει να έχει περιθώρια 2,5 cm (αριστερά, δεξιά, πάνω και κάτω).
2. Κατά τη συγγραφή της εργασίας θα πρέπει να χρησιμοποιηθεί ένα πρόγραμμα WORD για Windows (98 ή XP).
3. Η εργασία πρέπει να αποσταλεί με τη μορφή αρχείου doc και αρχείου pdf (για τον έλεγχο της ορθότητας του κειμένου)(Απαραίτητα και τα δύο).
4. Το κείμενο πρέπει να είναι γραμμένο σε γραμματοσειρά **Times New Roman** με χρήση **μονού** διαστήματος και γραμμάτων μεγέθους **12** (μόνο ο τίτλος της εργασίας θα πρέπει να γραφεί με γράμματα μεγέθους **14**).
5. Το κείμενο θα περιλαμβάνει τον τίτλο της εργασίας (γραμμένο με **κεφαλαία bold** γράμματα), τα ονόματα του ή των συγγραφέων (με **μικρά** γράμματα), τη διεύθυνση ή τις διευθύνσεις των συγγραφέων (με **μικρά italics** γράμματα) και στη συνέχεια ΕΙΣΑΓΩΓΗ, ΠΕΙΡΑΜΑΤΙΚΟ ΜΕΡΟΣ (με χωριστή αναφορά σε Υλικά, Όργανα-Συσκευές, Μεθόδους), ΑΠΟΤΕΛΕΣΜΑΤΑ-ΣΥΖΗΤΗΣΗ και ΒΙΒΛΙΟΓΡΑΦΙΑ (γραμμένα με **κεφαλαία bold** γράμματα).
7. Στο κείμενο πρέπει να είναι ενσωματωμένοι, με τρόπο που να μη δημιουργεί προβλήματα στην εκτύπωση, οι πίνακες, τα σχήματα ή/και οι φωτογραφίες.
8. Πριν από κάθε πίνακα πρέπει να υπάρχει ο σχετικός υπέρτιτλος (π.χ. Πίνακας 1. Οργανωτές του Συνεδρίου), ενώ κάτω από κάθε σχήμα πρέπει να υπάρχει ο σχετικός υπότιτλος (π.χ. Σχήμα 1. Εξέλιξη της συμμετοχής των χημικών στα Συνέδρια Χημείας Ελλάδας-Κύπρου).
9. Τα σχήματα και οι φωτογραφίες πρέπει να είναι ενσωματωμένα με τη μορφή αρχείου συμβατού με το πρόγραμμα Word για Windows (π.χ. οι φωτογραφίες σε αρχεία **GPEG, GIF ή PHOTOSHOP PSD/PDD**).
10. Θα υπογραμμιστεί **το όνομα του συγγραφέως/ων που θα παρουσιάσει/ουν την εργασία** είτε προφορικά είτε με την μορφή πόστερ.

ΠΕΙΡΑΜΑΤΙΚΟ ΜΕΡΟΣ

Υλικά

.....

Όργανα-Συσκευές

.....

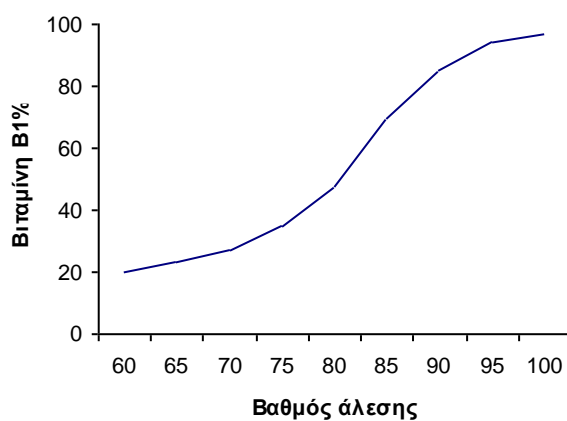
Μέθοδοι

.....

ΑΠΟΤΕΛΕΣΜΑΤΑ-ΣΥΖΗΤΗΣΗ

Πίνακας 1. Κατανομή των υδατανθράκων (%) στο σιτάρι.

Επιμέρους υδατάνθρακες	Αμυλώδης ιστός	Πίτυρα	Φύτρο
Πεντοζάνες και άλλες ημικυτταρίνες	2,4	43,1	15,3
Κυτταρίνη	0,3	35,2	16,8
Άμυλο	95,8	14,1	31,5
Σάκχαρα	1,5	7,6	36,4



Σχήμα 1. Σχέση βαθμού άλεσης του σιταλεύρου και της περιεκτικότητάς του σε βιταμίνη Β₁.

ΒΙΒΛΙΟΓΡΑΦΙΑ

1. Δ. Κεσίσογλου, Α. Δενδρινού-Σαμαρά. Το 8ο Συνέδριο Χημείας Ελλάδας-Κύπρου. Χημικά Χρονικά, 2004, 66, 97-101.
2. Γ. Μπλέκας, Σ. Γωγάκος. Τα Συνέδρια Χημείας Ελλάδας-Κύπρου. Πρακτικά 5ου Συνεδρίου Χημείας Ελλάδας-Κύπρου, Λευκωσία, 1996, σελ. 1-5.

THE ANCIENT DNA AND ASSOCIATED BIOMOLECULES CONFERENCE

UPDATE

Registrations and abstract submissions are still open!

To register please visit <http://dna7.ansoc.uq.edu.au> or use the attached registration form. (Please note that we prefer the online site to be used if possible) To submit an abstract please e-mail the abstract (200 words) to abstracts.dna7@uq.edu.au

News

The web site has been updated: A preliminary timetable for speakers and events is available on the program page and an abstract page has been added listing all the paper abstracts accepted to date.

Some interesting papers include:

Detection of the delta 32ccr5 HIV resistance gene in Bronze Age skeletons presented by Dr Susanne Hummel

Estimating limits to survival of DNA and proteins presented by Dr Matthew Collins

Survival of Non-sporulating Bacteria in Amber presented by Dr Charles Greenblatt

DNA barcoding ancient life presented by Dr David Lambert

The Romanov Case: Is acceptance of ancient DNA authenticity governed by sensible general guidelines, reproduction of results in qualified laboratories, and specifics of the investigation - or by axiomatic dogma? presented by Dr Thomas Parsons

Forensic applications of whole genome amplification presented by Dr Angela Van Daal

For further information please e-mail: enquiries.dna7@uq.edu.au

We look forward to seeing you at the conference

Regards

Tamara Brown

On Behalf of the DNA7 Conference Committee

The School of Social Science

The University of Queensland

St Lucia 4067

Australia

Ph: +61 (7) 3365 7252

Fax: +61 (7) 3365 1544

e-mail: enquiries.dna7@uq.edu.au

Register for the DNA7 Conference Online Now at: <http://DNA7.ansoc.uq.edu.au>

7th Ancient DNA and Associated Biomolecules Conference

Registration Brochure

The University of Queensland

Brisbane, Australia
10th-16th July 2004

Also
launching our
industry

Yes ✓ Please register me for the ADNA7 conference!

For multiple registrations, please photocopy form and fill out one per person.

Delegate's Personal Details:

Title: Professor/ Dr/ Mr/ Ms (circle)

Surname: _____ **First Name :** _____

Please print clearly

Address: _____ (street number)

_____ (street)

This address will be used for all conference correspondence

_____ (town/city) _____ (postcode)

_____ (country)

Phone: _____ (wk) _____ (home)

_____ (mobile)

Email address:

Research Institution/ University: _____

Please tick if relevant: I am a full-time student.

Conference Booking:

I will attend the following ADNA7 conference sessions & events!

<i>Tick if attending</i>	<i>Date</i>	<i>Session / Event</i>	<i>Number of people</i>	<i>Cost per person</i>	<i>Total</i>
	Sat 10-16 th July	Full conference registration <i>[includes morning/afternoon tea and lunch for four days]</i>		\$ 500-00 <i>Student rate: \$450-00</i>	
	Fri 16 th July	Conference Dinner – Mt Cootha <i>[does not include alcohol]</i>		\$ 79-00 <i>Student rate: \$59-00</i>	
				total	

Yes ✓ Please charge my credit card!

◆Mastercard ◆Visa ◆Bankcard Amount Paid: _____

Card Number: _____ Expiry Date _____

Cardholder Name: _____

Signature: _____

Accommodation options

The preferred accommodation venue for the conference is Cromwell college, located on the St Lucia campus of The University of Queensland. To book accommodation at Cromwell please e-mail stay@cromwell.uq.edu.au.

N.B. If possible we would prefer delegates to register and pay on-line at <http://dna7.ansoc.uq.edu.au>

To use this form please e-mail it to enquiries.dna7@uq.edu.au or fax +61 7 3365 1544 marked attention: Dr Tom Loy



GSA TOPICAL SESSION ON EDUCATION **IN ARCHAEOLOGICAL GEOLOGY,** **DENVER, USA**

Hello,

I would like to bring to your attention to a topical session co-sponsored by the Archaeological Geology and Geoscience Education divisions for this fall's GSA in Denver- T107. Toward Effective Interdisciplinary Education in Archaeological Geology: Progress and Prospects.

Please consider submitting an abstract to this session if you: developed a degree program (undergrad or grad) in geoarchaeology, developed a particular course or seminar you think is an integral piece of a geoarchaeologist's education, had a particularly good (or challenging) experience in acquiring training in geoarchaeology, have any insight into the particular challenges of training students to work, think, and communicate across the natural sciences/social sciences "gap", have a sense of what works best in training from your experience in hiring or working with geoarchaeologists, or really have any insight you'd like to share on any aspect of educating geoarchaeologists. We would also like to hear from current students (grad and undergrad) on their perceptions of the opportunities and styles of training available, or particular challenges they're facing.

There are as many ways to train geoarchaeologists as there are geoarchaeologists- this session represents a relatively unique opportunity for us to share what we've learned about what has worked well in the past, and to identify needs still to be met. However, the session will not run unless we get at least 12 abstracts, so please do consider submitting one. The deadline is July 13, midnight Pacific time.

If you have any questions about the session, please feel free to contact me at jensmith@wustl.edu; I will have only sporadic email contact until July 1 but should be readily available after then.

Jennifer R. Smith
Department of Earth and Planetary Sciences
Washington University
Campus Box 1169
1 Brookings Drive
St. Louis, MO 63130

Office: (314) 935-9451
Fax: (314) 935-7361

OPTICS, LIFE AND HERITAGE, PRESENT AND FUTURE OPTICS PRESERVING PAST AND GLORIOUS TIMES

**San Francisco de Asis Church, Havana City, Cuba.
September, 26-30th, 2004**

In Havana, we can still feel the spirit of the colonial past through architecture. Fortunately, ancient art in Cuba born of the imagination of a mixture of different cultures is seen in churches, palaces, sculptures together other ancient official buildings make a part of the city, which is very attractive for visitors and researchers. Considering this beauty environment, mainly placed in the old part of Havana, the Cuban Physical Society and the Territorial Committee of ICO invite you to take part in the scientific conference OPTICS, LIFE and HERITAGE as a satellite meeting of V RIAO-OPTILAS 2004, that will place in September 2004 in Havana, Cuba.

This meeting will held from September, 26 th to 30 th in the old part of the Havana. A huge group of scientists and people related to art conservation, mainly using optical techniques will take part in sessions to share ideas and solutions relating with themes.

We pretend to give other interesting tribune for discussions and there are welcome contributions related with the following main topics:

• **Optics and Light in Biomedicine.**

Themes related basic and applied researches which involved optical designs used in Biomedicine. Also included the interaction between light and matter, including other light uses in biomedicine.

• **Environmental Analysis by Means of Optics and Laser Optics.**

Themes related enviromental techniques and apparatus which involved optical and optomechanical design using optical or laser instruments.

• **Laser and Spectroscopy in Heritage**

Preserving and Restoring. Laser and spectroscopy basis and applied techniques themes related heritage preserving and restoring in architecture, sculpture, painting and others.

• **Holography in Archaeological and Museum Applications.**

Application of holographic techniques in these fields. Archaeological Optics. Optical methods and instruments related with these techniques.

Please visit the site: <http://www.ceaden.cu/olh/indice.asp>

STANFORD ARCHAEOLOGY **CONFERENCE, SEEING THE PAST:** **BUILDING KNOWLEDGE OF THE PAST** **AND PRESENT THROUGH ACTS OF** **SEEING, FEBRUARY 5 - 6, 2005**

A conference hosted by the Archaeology Center at Stanford University

February 5 - 6, 2005

Abstract deadline: November 15, 2004

Seeing the Past is a conference designed to explore the act of seeing and how observation leads to certain types of knowledge. This conference explores how visual media are used to construct our knowledge of the past. It will engage in a discussion of a wide range of forms, practices and theories of perception and the subsequent formation of knowledge in both the past and the present.

The objective of this conference is to promote productive dialogue and provide a forum for discussion in moderated sessions. Papers will be pre-circulated and posted on a conference website. All participants are encouraged to read papers and participate in an online forum. The presentation of papers will be limited to a 5-10 minute 'provocative statement' intended to stimulate discussion. Following the conference, the papers will be published in Stanford's Archaeology Journal.

1) Seeing the Past (in the present)

This category encompasses the ways in which we present the past through visual technologies and media to other scholars, the public and ourselves. The objective is to explore how different media present different pasts.

Possible topics in this area may include (but are not limited to) GIS/Digital rendering of sites and monuments, visual modeling, the commercialization/packaging of the past, the past through photography/other media, how modern sites are used (i.e. heritage/ tourism), and how the past is represented in museums.

2) Seeing the Past (in the past)

This category includes studies on how past peoples used visual culture to understand their past and present. What can an image, sculpture or monument convey that a text cannot? How did people see? What did people see?

Possible topics may include (but are not limited to) temporal and spatial development of settlements and cemeteries, rock art, textual and artistic representations, monumentality, spatial re-use, ritualised architecture, and landscape studies.

The conference theme is designed to enable productive dialogue across a range of disciplines including, but not limited to: Anthropological Sciences; Architecture; Art and Design History; Classics; Cultural and Social Anthropology; Biology; Cultural Studies; Education; Film Studies; Dramatic and Performance Studies; Fine Art; Geography;

Geology and Earth Sciences; History; Literary Studies; Museum Studies; Photography; Psychology; Sociology; Visual Culture.

Abstracts of 300 words (approx.) should be sent to:

Stanford Archaeological Center

Stanford University

Building 60, Main Quad

Stanford, CA 94305-2170

-OR-

Email: seeingthepast@yahoo.com



**METAL 2004 CONFERENCE: TRIENNIAL
METALS CONSERVATION CONFERENCE,
METALS WORKING GROUP OF ICOM
COMMITTEE FOR CONSERVATION**

4-8 October 2004, Canberra, Australia

Dear Colleges,

Metals 2004 is shaping up to be an exciting and interesting Conference. Topics will stretch from the conservation of Silver images through the analysis and conservation of archaeological materials to the conservation of objects containing modern metallic materials.

We are working to ensure that the papers are available as preprints and will also be available for the NMA web site. Ensuring that we can meet the preprint deadlines will only be possible if authors submit papers to us by the 30 June deadline. Please let me know if you are going to have difficulties. (d.hallam@nma.gov.au).

If authors miss the 30th of June deadline and do not inform the organisers we may not be able to publish their papers in the preprints.

The abstracts should be available by July as translations in French and Spanish. A program of lab and associated visits is being developed for the evenings. Subgroup sessions are programmed for Thursday the 7th.

Updates of the program are available on the NMA website at;
http://www.nma.gov.au/events/major_events/metals_conservation_conference/

Program updates are on my website at;
<http://rsc.anu.edu.au/~hallam/metals2004>

A pre-conference workshop Big Stuff concentrating on the conservation of large objects has been organised by the Australian War Memorial to discuss the problems of conservation of Large Technological Objects. Issues. More information on this can be obtained from Alison Wain (Alison.Wain@awm.gov.au) .

Attached is a copy of the registration form and information on costs. Please return to the conference coordinators listed on the Form as soon as practical. Please note that late fees are applicable to late payment of registrations. Please also note that an authors registration is required for inclusion in the publication as registration cost cover the cost of the publication.

I hope to see as many of you as possible at Metals 2004.

David Hallam
Senior Conservator Research and Technology
National Museum of Australia

David Hallam
Senior Conservator
Technology and Research
National Museum of Australia.
02 62085153 or in 'the lab' at 62085211
Mob.0407730426
E-mail: d.hallam@nma.gov.au

See http://www.nma.gov.au/events/major_events/metals_conservation_conference/ for
the official Metals 2004 web site!

METALS 2004

4-8 October 2004, Canberra, Australia

Registration form/Tax Invoice

ABN 70 592 297 967 - National Museum of Australia

Please complete a separate form for each delegate even if registering multiple delegates from the same organization. Photocopies are acceptable.

PERSONAL DETAILS

Surname:

Title

First name

Organisation

Position

Address

Suburb/City State Postcode

Country

Phone (Country Code) (Area Code) (Number)

Fax (Country Code) (Area Code) (Number)

Email

REGISTRATION (No GST is charged) (Includes Social functions)

*Early Registration (ICOM Member) AUD \$600 \$

*Early Registration (Normal) AUD \$650 \$

** registration payment received by 31 August*

Student Registration AUD \$550 \$

Standard Registration (after 31 August) AUD \$850 \$

TOTAL \$

Preferred name for name badge

Special requirements (e.g. dietary, disability)

Payment details

I enclose cheque payable in Australian dollars and drawn on an Australian Bank to
NMA Conference

I am faxing registration form and cheque in Australian dollars and drawn on an
Australian Bank will follow

I wish to pay by credit card and hereby authorize you to charge the amount of \$ to my
credit card

Type of credit card: Mastercard Bankcard Visa

Name on the card: Expiry date:

Credit card number: ____ / ____ / ____ / ____

Signature:

**Please fax completed form to +61 2 6285 1336 or send to: Conference Logistics
PO Box 201**

**DEAKIN WEST
ACT 2600
AUSTRALIA**

The Museum recommends that conference delegates stay at University House. University House is located in the Australian National University (a short stroll from the National Museum), amongst parklands and gardens. It has well appointed, quiet and affordable accommodation; a superior suite is ??? \$126 per night with breakfast an extra??? \$3 per person. The facilities are excellent with an a la carte restaurant and face and bar on site. Further information is available at <http://www.anu.edu.au/unihouse/> by phone on 02 – 6125 5211, or via email to accommodation.unihouse@anu.edu.au.

PHOTONS IN ACTION, GORDON RESEARCH CONFERENCE: LASER INTERACTIONS WITH MATERIALS

August 1-6, 2004, New Hampshire

Proctor Academy, Andover, New Hampshire

The next Gordon Conference organized by the Laser-Materials Interaction Community will be held from August 1-6, 2004 at the Proctor Academy in Andover, New Hampshire. The aim of the conference is to provide an up-to-date forum for the latest science and technology in this rapidly developing field. The conference will emphasize the most current work regarding the mechanisms and consequences of laser light interacting with solids and solid surfaces as well as breakthroughs in applications to technology and other sciences. We have chosen a set of speakers who are at the cutting edge of this field and will present in an interesting and helpful fashion the latest in their work. This format always generates lots of discussion and new ideas. Poster presentations are open to all attendees including graduate students who are encouraged to submit and participate. Special informal events will be organized to stimulate discussions and contacts.

The current program is as follows:

Laser Interactions With Materials PROGRAM

August 1-6, 2004

Proctor Academy

Andover, NH

Chair: **Tom Dickinson** (Washington State University)

Vice Chair: **David Blank** (University of Twente)

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 9:30 pm	Wide bandgap insulators and semiconductors Discussion Leader: Jim Horwitz (Dept. of Energy-BES)
7:30 pm - 8:30 pm	Wayne Hess (Pacific Northwest National Laboratory) "Laser controlled desorption from ionic crystals"
8:30 pm - 9:30 pm	Richard Haglund (Vanderbilt University) "Time- and space-resolved spectroscopy of a metal-insulator transition in vanadium dioxide nanoparticles"

MONDAY

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	Laser-Surface Interactions

- Discussion Leader: **Wolfgang Kautek** (BAM)
- 9:00 am - 10:00 am **M. Wolf** (Freie Universität Berlin)
"Ultrafast laser-induced surface dynamics: From electronic excitations to coherent phonons and femtochemistry"
- 10:00 am Coffee Break
- 10:30 am - 11:30 am **K. Tanimura** (University of Nagoya)
"Surface carrier dynamics and excitation-induced structural instability on semiconductor surfaces"
- 11:30 am - 12:30 pm **Eric Borguet** (University of Pittsburgh)
"Hot electron dynamics at semiconductor interfaces"
- 12:30 pm Lunch
- 1:30 pm - 6:00 pm Free Time
- 6:00 pm Dinner
- 7:30 pm - 9:30 pm **Lattice Phenomena**
- Discussion Leader: **Xianfan Xu** (Purdue University)
- 7:30 pm - 8:30 pm **Thomas Feuer** (MIT)
"Spatiotemporal coherent control of lattice vibrational waves"
- 8:30 pm - 9:30 pm **Peter Hess** (University of Heidelberg)
"Nanotechnological applications of laser-based surface acoustic waves"
- 9:30 pm - 11:00 pm Poster Session

TUESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Laser Synthesis and Structuring**
- Discussion Leader: **Jan Dubowski** (Université de Sherbrooke)
- 9:00 am - 10:00 am **Kerry Vahala** (California Inst. of Technology)
"Pulsed laser synthesis to fabricate microsphere and microtoroidal optical resonators"
- 10:00 am - 10:15 am Short Business Meeting
- 10:15 am Coffee Break
- 10:30 am - 11:30 am **Hans Christen** (ORNL)
"Opportunities with a PLD-based compositional-spread technique: metal-oxide thin films and catalysts for carbon nanotube synthesis"
- 11:30 am - 12:30 pm **Boris Chichkov** (Laser Zentrum Hannover)
"High Resolution Two- and Three-dimensional Material Processing with Femtosecond Lasers"
- 12:30 pm Lunch
- 1:30 pm - 6:00 pm Free Time
- 4:00 pm - 6:00 pm Optional Bull-Session on Science/Engineering Education
Tom Dickinson (Washington State University)
- 6:00 pm Dinner

- 7:30 pm - 9:30 pm **MALDI Mechanisms**
Discussion Leader: **Rick Russo** (LBL)
- 7:30 pm - 8:30 pm **A. Vertes** (George Washington University)
"Pumping rate and surface morphology effects in matrix-assisted laser desorption ionization"
- 8:30 pm - 9:30 pm **Detlef Günther** (ETH-Zurich)
"Mechanisms and Advances in MALDI"
- 9:30 pm - 11:00 pm Poster Session

WEDNESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Nano- and micrometer scale structuring and Modification/Non-Linear Applications, Femto-physics**
Discussion Leader: **C. Fotakis** (FORTH-Crete)
- 9:00 am - 10:00 am **Eric Mazur** (Harvard)
"Materials Phase Transformations induced by ultrafast laser pulses"
- 10:00 am Coffee Break
- 10:30 am - 11:30 am **Lukas Novotny** (University of Rochester)
"Conducting tip induced surface modification"
- 11:30 am - 12:30 pm **Hrvoje Petek** (U Pittsburgh)
"Ultrafast coherent response of semiconductors to impulsive optical excitation"
- 12:30 pm Lunch
- 1:30 pm - 6:00 pm Free Time
- 4:00 pm - 6:00 pm Optional Bull-Session on "Future of Laser-Materials Interactions: Funding, Hot Areas, etc."
Richard Haglund (Vanderbilt University)
- 6:00 pm Dinner
- 7:30 pm - 9:30 pm **Novel Ultrafast Laser techniques**
Discussion Leader: **K. Murakami** (University of Tsukuba)
- 7:30 pm - 8:30 pm **Eleanor Campbell** (Chalmers University of Technology)
"Ultrafast laser interactions with solids and molecules"
- 8:30 pm - 9:30 pm **Costas Grigoropoulos** (UC-Berkeley)
"Use of SPM, SNOMS, and other novel methods in laser processing"
- 9:30 pm - 11:00 pm Poster Session

THURSDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Simulations; laser interactions with liquids and soft materials (e.g., biological tissue)**
Discussion Leader: **D. Geohagen** (ORNL)
- 9:00 am - 10:00 am **L. Zhigilei** (University of Virginia)
"Molecular dynamics simulations of laser interaction with organic"

	materials"
10:00 am	Coffee Break
10:30 am - 11:30 am	Alfred Vogel (University of Lubeck) "Pulsed laser ablation of biological tissues: a kaleidoscope of thermodynamic and fluid mechanical phenomena"
11:30 am - 12:30 pm	Jean Paul Martin (Ecole Polytechnique -ENSTA) "Study of dynamics with high resolution femtosecond spectroscopy and X-ray diffraction"
12:30 pm	Lunch
1:30 pm - 6:00 pm	Free Time
6:00 pm	Dinner
7:30 pm - 9:30 pm	Special Thursday Night Lecture
	Discussion Leader: David Blank (U. Twente)
7:30 pm - 9:00 pm	Sunney Xie (Harvard) "Holding Biology up to the Light: Imaging, Spectroscopy and Dynamics of Single Biomolecules and Single Cells"

FRIDAY

7:30 am - 8:30 am	Breakfast
9:00 am	Depart

Venue: Proctor Academy, Andover, New Hampshire. Proctor Academy ([home page](#)) ([GRC related info](#))

Date: August 1-6, 2004

Registration for the conference is a two step process: You Apply (a formality), we accept your application, and then you Register. This is all done on the web starting at this URL: <http://www.grc.uri.edu/attend.htm>

DO NOT BE INTIMIDATED BY THE APPLICATION--Just barge bravely ahead!
We are working on raising funds to assist students and others with some of the costs. Remember the conference fee covers all local expenses.

For background information on all Gordon Research Conferences please visit the GRC website at <http://www.grc.org/>

Information relating to *past* Laser Materials GRCs can be found at [All Conferences Database](#) under Laser Interactions with Materials.

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Please visit the site:

**[http://www.wsu.edu/~jtd/GRCLASER/laser_interactions_with_materialsHOMEPA
GE.htm](http://www.wsu.edu/~jtd/GRCLASER/laser_interactions_with_materialsHOMEPA GE.htm)**

12TH INTERNATIONAL MEETING ON SOIL MICROMORPHOLOGY

September 20-26, 2004, University of Cukurova, Adana

The meeting will take place at the lecture halls of the university and the Department of Soil Science. The campus is located besides the Seyhan Dam Lake. The province of Adana has typical Mediterranean characteristics, which is hot in the summer and rainy and mild in the winter. The province has a lot of unique historical and touristic attractions with natural beauties.

Call for Contributions

Authors are requested to submit **short** (up to 200 words) and **extended abstracts** (3 pages or 800 kb) of their papers by **Jan, 2004**. All short abstracts accepted for presentation during the Meeting will be published in a **Book of Abstracts** that will be made available to all participants during registration to the Meeting so as to guide them through the oral and poster sessions. The extended abstracts will be published electronically in a CD-ROM, to be given to each participant at registration. **Authors should indicate whether they would like to have their work presented in the oral sessions. Voluntary contributions will be considered in one of the following two forms:**

- **Oral Presentations**
- **Poster Presentation**

1. Oral Presentations, will occur on a pre-published schedule. Each presentation will be allocated 15 minutes, with 5 minutes for questions. Some of the intended papers for oral presentation may be transferred by the Scientific Committee to be presented as posters due to time restrictions

2. Poster Presentations, will be displayed in the exhibition hall throughout the meeting and authors will be asked to be present at designated times. Each poster presenter will be provided with a poster of 120 cm x 200 cm.

Please visit the site: <http://ziraat.cu.edu.tr/imm/>

ΘΕΣΕΙΣ ΕΡΓΑΣΙΑΣ/ΥΠΟΤΡΟΦΙΕΣ –
JOB VACANCIES/FELLOWSHIPS

LECTURER IN ARCHAEOLOGICAL
METALLURGY, DEPARTMENT OF
ARCHAEOLOGY, SHEFFIELD
UNIVERSITY

Ref: R3320 - Salary: £22–26K pa Grade: LA

The successful candidate will have, or be about to obtain, a doctorate in a relevant area of study. This post is available from September 2004.

[Full details from University Jobs site](#)

Closing Date: 9 July 2004

For further information please contact Professor John C Barrett on 0114 222 2916 (j.barrett@sheffield.ac.uk).

For full post details/application pack visit: www.shef.ac.uk/jobs
or email: jobs@sheffield.ac.uk
Telephone: 0114 2221631 (24 hours)

Please visit the site: <http://www.shef.ac.uk/archaeology/resource/jobs.html>

ΝΕΕΣ ΕΚΔΟΣΕΙΣ – NEW PUBLICATIONS

**NEW PUBLICATION FROM PAUL
ÅSTRÖMS FÖRLAG “LEBENA EM
TOMBS”**

(New address: Mimersvägen 44, SE-433 64 Saevedalen, Sweden
New e-mail: paul.astrom@bredband.net
Website: www.astromeditations.com)

Alexiou, Stylianos and Warren, Peter, The Early Minoan Tombs of Lebena, Southern Crete (Studies in Mediterranean Archaeology XXX). Saevedalen 2004. 223 pp, 53 figures, 164 plates, 1 foldout. ISBN 91-7081-126-1. SEK 1300.

NEW BOOK RELEASE: **EVA ALRAM-STERN**

The Mykenische Kommission of the Austrian Academy of Sciences is pleased to announce the release of a new title:

Eva ALRAM-STERN

Die Ägäische Frühzeit. 2. Serie. Forschungsbericht 1975-2002

2. Band, Teil 1 und 2: Die Frühbronzezeit in Griechenland. Mit Ausnahme von Kreta 2004

2 Bände mit insgesamt 1372 Seiten mit 1 Faltpfad, 24x17 cm, broschiert, Veröffentlichungen der Mykenischen Kommission 21

ISBN 3-7001-3268-9

Print Edition ? 221,--

Eva ALRAM-STERN

ist Mitarbeiterin der Mykenischen Kommission der Österreichischen Akademie der Wissenschaften Dieser Forschungsbericht zur Frühbronzezeit auf dem Gebiet des heutigen Griechenlands, der in der Nachfolge der fünfbändigen, von Fritz Schachermeyr verfassten Serie "Ägäische Frühzeit" steht, behandelt die Neufunde der Jahre 1975-2002. Auf eine ausführliche Bibliographie folgt eine Analyse der wichtigsten Forschungsthemen zu Chronologie, Umwelt und Subsistenz, den verschiedenen archäologischen Fundgruppen wie Architektur, Gräber, Figuren, Keramik, Geräte, Metallurgie, Transport und Handel sowie verschiedene Fragestellungen zum kulturellen Wandel während der Frühbronzezeit. Der letzte Abschnitt liefert einen ausführlichen Bericht über die Grabungen und Neufunde, welche nach Landschaften gegliedert vorgelegt werden. In einem umfangreichen Appendix berichten Fachkollegen über Neufunde und Ergebnisse ihrer Forschungen.

This report which follows Fritz Schachermeyr's series "Ägäische Frühzeit" deals with the topics and new finds (1975-2002) on the Early Bronze Age in the area of today's Greece. A detailed bibliography is followed by an analysis of the most important themes like chronology, various groups of findings (architecture, tombs, figurines, pottery, various equipment, metallurgy), transport and trade, but also questions concerning cultural change during the Early Bronze Age are systematically treated. The last part of the book concerns the excavations and new finds in geographical order. In an appendix colleagues report on their new finds and results.

Inhaltsverzeichnisse und Lesebeispiele sind frei zugänglich. Tables of Contents and Reading examples are freely accessible. Bestellungen richten Sie bitte an Orders should be placed with Verlag der Österreichischen Akademie der Wissenschaften Austrian Academy of Sciences Press A-1011 Wien, Postfach 471, Postgasse 7/4 Tel. +43-1-515 81/DW 3402-3406, +43-1-512 9050, Fax +43-1-515 81/DW 3400 <http://verlag.oeaw.ac.at>, e-mail: verlag@oeaw.ac.at

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ΑΝΑΚΟΙΝΩΣΕΙΣ - ANNOUNCEMENTS

THE FECS/ DCE CHCSC CULTURAL HERITAGE CHEMISTRY SUB- COMMITTEE

The sub-committee of Cultural Heritage Chemistry (CHCSC) operates under the FECS-DCE -Division of Environmental Chemistry of the Federal European Chemical Society. The CHCSC it was established in January 2004 as a forum for chemists dealing with problems about the environmental impact on the cultural heritage, and with studies on conservation and restoration in art and archaeology.

The CHCSC comes from the excellent results of the Cultural Heritage Chemistry Session held in Athens 8th Conference and from the experience of the interdivisional group “Chemistry for the Cultural Heritage” of the Italian Chemical Society, which, constituted in 1995, converged in 2003 into a Environmental Chemistry Division, now “Chemistry of the Environment and of Cultural Heritage” Division. In our opinion, the CHCSC has to become an European reference working group to discuss the pressing chemical problems in the Cultural Heritage field.

Among the aims of CHCSC are:

- The organisation of regular discussion meetings within the FECS/DC Conferences. As a matter of fact, in the 2002 Athens FECS/DC Conference a specific Session dedicated to the theme of Cultural Heritage highlighted the active participation of members with a great success.
- The organization of European post-graduate courses with a limited number of students (40-50).
- The organization of workshops dealing with problems of global importance and of great interest for a lot of institutions.

Future activities of the CHCSC concern:

- Meeting to officially constitute the FECS/DCE Cultural Heritage Subcommittee at the 9th FECS/DCE Conference at Bordeaux (France), 29th August- 1st September 2004.
- One day workshop on “Polluted Art?” to be held probably in December 2004
- Short course on “Cultural Heritage Chemistry - Diagnosis and Conservation of old paintings” and/or “Isotopic methods in Cultural Heritage” to be held at the 2005 10th FECS/DCE Conference in Rimini (Italy).

All the members of the European Environmental Chemistry Divisions interested in the Cultural Heritage are kindly invited to join the working group

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Registration form

Please complete in block capitals and return this reply card (by fax or mail) to the Organising Secretary

Surname (Prof., Dr, Ing.,...)
First Name
Company/Organisation
Address
Postal Code..... City
Country
Phone
Fax
E-mail
Main field of research

The above information will be included in the *mailing list of SCHC. This database will also be used to keep you informed about all the events.*

INTERNET SITES

'IF YOU LIKE, THIS IS WHERE GREEK HISTORY STARTS'

DNA analysis of Bronze Age bones will answer an ancient question, reports David Adam

Thursday May 27, 2004, [The Guardian](#)

"I have seen the face of Agamemnon." No, not the reaction of filmgoers after seeing Brian Cox's depiction of the Greek king in Troy, but that of the celebrated 19th century archaeologist Heinrich Schliemann after digging up a striking Bronze Age gold mask from ancient Greece.

Schliemann was not known for understatement - on excavating the ruins of Troy he said he had "opened a new world" for archaeology - but on this occasion he was wrong. The shaft graves at Mycenae where he found the mask have now been dated to 1500BC, and it would stretch even the historical flexibility of a Hollywood scriptwriter to place Agamemnon there several centuries before he led the Greeks in the Trojan war. The glittering death mask, treasure and the rest of the haul recovered from the graves were not his, but whose were they? The question has long puzzled archaeologists.

"These burials are unique in the Bronze Age," says Keri Brown of the University of Manchester Institute of Science and Technology. "These people seem to have cornered the market in gold, so how did they do this, who were they and how did they have this power?"

Working with the forensic science service, Brown and her team are turning to DNA fingerprints to solve the conundrum. Using genetic material painstakingly scraped from 3,500-year-old bones and teeth recovered from the graves, the scientists hope to establish whether the dozens of privileged individuals buried at Mycenae are part of the same family, or an unrelated collection of mercenary fighters. The answer will shine light on the social structure of one of the most influential periods in human history.

"If you like, this is where Greek history starts," says John Prag, an expert in Greek archaeology at the Manchester museum.

His group has already used facial reconstruction techniques to put flesh on the ancient bones and look for family resemblances, with some success. "We got a couple of pairs that were very clearly related but there comes a point where everybody's got two eyes, two ears, a nose and a mouth and we all look alike," Prag says.

Clues from the bones have also suggested the sex of those buried at Mycenae, as well as how old they were when they died. "But you can't tell from bones who is related to who," says Brown. "Only DNA can do that."

Scientists have worked out how to analyse strands of genetic material from animals and people who lived thousands of years ago. The key is being able to extract DNA from the hard structures like teeth and bones left behind after the rest of the corpse rots away. It's a tricky process, and the results are not always reliable, but researchers have used it to

recover DNA from mammoths, sequence the genes of Neanderthals and confirm the identities of the Romanov family murdered during the Russian revolution.

The DNA strands are often broken or degraded (seemingly scuppering our chances of cloning a mammoth), so to analyse the Mycenae skeletons the Manchester team and the forensic scientists are searching for new types of genetic markers that are shorter than those used in conventional DNA fingerprinting. To complicate matters, Schliemann painted them with a sticky preservative that plays havoc with the sensitive chemistry used to isolate and copy the DNA molecules.

"We're spending a lot of time perfecting the experiments on other material before we tackle the Mycenae bones themselves," Brown says. "We want to get the extraction and analysis methods spot-on." The remains are carefully guarded by the National Museum in Athens; it took two years of form-filling and delicate negotiation to get the bone splinters and few odd teeth on the plane to Manchester.

Of the 19 individuals buried in the grave Brown's team are interested in, she has bone or teeth samples from 10 of them. Preliminary work suggests a 40% success rate with the DNA technique, which mean the family secrets of just four ancient Greeks will be revealed. It's not much, but it's a start.

"I'd like to go on to look at DNA from other bodies found in other parts of Greece from the same period," says Prag. "The modern Greeks would love to know they're descended from the ancient Greeks. But since 1500BC Greece has been invaded and occupied so many times I'm not sure we're going to get the answer they want."

Please visit the site:

<http://www.guardian.co.uk/life/feature/story/0,13026,1225001,00.html>

NEW SITE: ANCIENT CITY OF ATHENS

Kevin Glowacki's new site, "The Ancient City of Athens" is a photographic archive of the archaeological and architectural remains of ancient Athens (Greece). It is intended primarily as a resource for students and teachers of classical art & archaeology, civilization, languages, and history as a supplement to their class lectures and reading assignments and as a source of images for use in term papers, projects, and presentations. We also hope that this site will be useful to all who have an interest in archaeological exploration and the recovery, interpretation, and preservation of the past.

Please visit the site: <http://www.stoa.org/athens/>

ΑΡΧΑΙΟΛΟΓΙΚΕΣ ΑΝΑΖΗΤΗΣΕΙΣ **ΑΝΑΣΚΑΦΕΣ ΣΤΗΝ ΟΜΗΡΙΚΗ ΓΡΑΙΑ**

Η έκθεση «Αρχαιολογικές Αναζητήσεις: Ανασκαφές στην Ομηρική Γραία» παρουσιάζει 142 από τα σημαντικά ευρήματα που ήρθαν στο φως στη Σκάλα Ωρωπού Αττικής κατά τα τελευταία είκοσι χρόνια, που διενεργούνται ανασκαφές στην περιοχή, αρχικά από την Β' Εφορεία Προϊστορικών και Κλασικών Αρχαιοτήτων και από το 1996 έως σήμερα από τον καθηγητή κ. Αλέξανδρο Μαζαράκη Αινιάνα, υπό την αιγίδα της Εν Αθήναις Αρχαιολογικής Εταιρείας.

Επιπλέον, έχει σκοπό να ενημερώσει όλους όσους έχουν αναρωτηθεί πώς διεξάγεται μια αρχαιολογική ανασκαφή και θέλουν να μάθουν πώς οι αρχαιολόγοι μελετούν και ερμηνεύουν τα ευρήματα.

Διάρκεια έκθεσης

18 Ιουνίου έως 31 Αυγούστου 2004

Ωράριο λειτουργίας

10:00-14:00, 18:00-21:00

Δευτέρα κλειστά

Ξεναγήσεις

18:00-21:00

Τετάρτη, Παρασκευή, Σάββατο και Κυριακή

Τηλέφωνα επικοινωνίας

Αίθουσα έκθεσης: 24210-74863 (έως 31/8/2004)

Εργαστήριο Αρχαιολογίας ΙΑΚΑ: τηλ & φαξ 24210-74874

Γραμματεία ΙΑΚΑ: τηλ & φαξ 24210-74781

Επισκεφθείτε το δικτυακό τόπο: <http://extras.ha.uth.gr/oropos/>

OLD TREES, NEW DATES AND THE END OF MYCENAEAN CIVILIZATION

Summary

International collaboration between experts at the Universities of Birmingham, Cornell and Heidelberg has resulted in a breakthrough in determining an absolute date for the end of the Mycenaean period and beginning of the Greek Iron Age. Until now this has been deduced from a tenuous chain of ceramic parallels and historical inferences. The new dating evidence also has implications for how an important period of prehistory in Europe and the Middle East is understood.

The study of burnt construction timbers from the prehistoric site of Assiros in Greek Macedonia using the independent techniques of dendrochronology (tree ring dating) and radiocarbon have provided the dates of 1080 and 1070 +4-7 BC for the felling of the timbers used in two successive buildings. A Protogeometric style amphora, made soon after the beginning of the Iron Age and found on the lower floor, can thus be securely dated after 1080 BC and before 1070 BC.

This date for the start of the Iron Age is not only the first such determination in Greece and the adjacent region, but is some 50 years earlier than that usually proposed. It will require reassessment of the accepted dates for equivalent developments in Cyprus, Israel, Lebanon and Syria.

The context

Excavation at the settlement mound of Assiros Toumba in Central Macedonia, conducted between 1975 and 1989 by the British School at Athens and the University of Birmingham, revealed a series of construction levels dating from the Middle Bronze Age (c 2000 BC) to the Iron Age (c 850 BC). Several of these were destroyed by fire and the charred oak construction timbers were thus preserved for modern study.

The results reported here are based on timbers used in constructing the second and third Iron Age settlements (Phases 3 and 2 respectively). Scattered on the floor of the second settlement (Assiros Phase 3) and sealed under the floor of the third ([Assiros Phase 2](#)) were many fragments from a clay amphora made in the Protogeometric style which marks the beginning of the Iron Age in southern Greece. The fabric and decoration of this example matches others which have been found in Central and Northern Greece and at Troy and have conventionally been dated between 1025 and 975 BC. (See R.W.J. Catling in *Studia Troica* vol. 8, 1998)

A full report has been prepared for publication in *Archaiologiko Ergo Makedonias Thracis* for 2003, due to appear in February 2005.

Fig 1. [Protogeometric amphora from Assiros](#) sealed below the floor level of the third Iron Age Settlement (Phase 2)



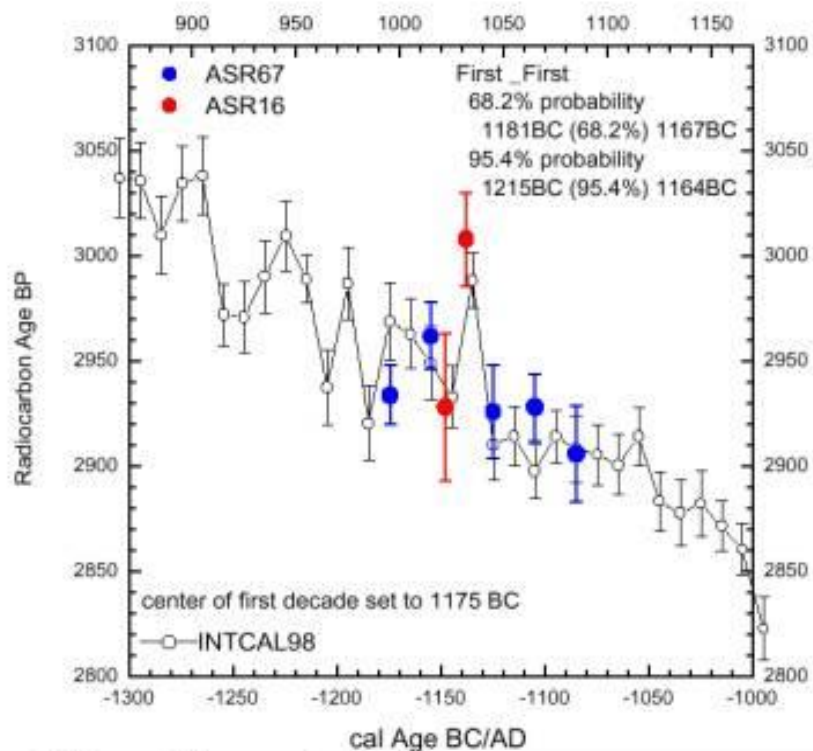
Dendrochronology

Painstaking examination of four different timbers at the Malcolm and Carolyn Wiener Laboratory for Aegean and Near Eastern Dendrochronology at Cornell University enabled the growth patterns for a period of over 100 years to be recorded. Comparison of this pattern with that established and dated from timbers found at Gordion and other Anatolian sites revealed that those used in the early Iron Age constructions at Assiros had been cut down by 1070 \pm 4-7 BC.

Carbon 14

The 100 year span of the Assiros timbers also allowed the application of a powerful technique, dendrochronological ^{14}C wiggle-matching (DWM), in which samples extracted at approximately 20 year intervals from the timbers were processed at the Radiocarbon Facility of the Heidelberg Academy of Sciences and the Institut für Umweltphysik at the Ruprecht-Karls-Universität Heidelberg. Seven determinations, related absolutely in this manner, were then matched statistically with the relevant section of the internationally recommended radiocarbon calibration curve, INTCAL98. Fluctuations in this curve are particularly marked during the final part of the 2nd Millennium BC, making it impossible to distinguish the correct absolute date from a single ^{14}C determination. We use the time series represented in the tree-rings at Assiros to match the ^{14}C fluctuations with a DWM model that ‘fits’ the calibration curve with remarkable precision at 1075 \pm 7 BC, a date which is statistically indistinguishable from the date provided by the dendrochronology match.

Fig. 2: Seven ^{14}C determinations from timbers at Assiros fitted precisely to the INTCAL98 calibration curve.



Significance

For over one hundred years, dates for the end of the Mycenaean period and start of the Iron Age have been based on a tenuous chain of argument, which has used the occasional discoveries of Protogeometric style pottery in Near Eastern sites as starting points despite their poor contexts and uncertain correlation with datable historical events such as the Old Testament reign of King David or the hieroglyphic record of the campaigns of the Egyptian Pharaoh Ramesses III in Palestine. Conversely, dates for Near Eastern sites have sometimes been based on the presence of 'datable' examples of Greek Protogeometric pottery, a circular argument which gives little confidence in the whole chronological framework currently accepted.

While the new dates will impose an adjustment of fifty years upwards on the chronologies of the whole Eastern Mediterranean region, they do provide, for the first time, an independently derived starting point for the Protogeometric period which can be fixed within a narrow period between 1100 and 1070 BC. In addition, they should finally lay to rest the radical proposals of James and others in 'Centuries of Darkness' for the removal of over 200 years from the Dark Age chronology, proposals which were in part based on the inadequacies of the existing frameworks.

[The Trojan War tabulated dates](#)

Authors

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Links

For further details about Assiros visit: the rest of the [ASSIROS RESEARCH PAGES](#)

The Malcolm and Carolyn Wiener Laboratory for Aegean and Near Eastern Dendrochronology at Cornell University visit: <http://www.arts.cornell.edu/dendro/>

¹⁴C at the Institut für Umweltphysik at the Ruprecht-Karls-Universität Heidelberg, visit: <http://www.iup.uni-heidelberg.de/institut/forschung/groups/fa/radiokohlenstoff/radiometrie-web-html>

A full report on the new dates for the end of the Mycenaean period has been prepared for publication in *Archaologiko Ergo Makedonias Thrakis* for 2003, due to appear in February 2005.
