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Πληροφοριακό Δελτίο της Ελληνικής Αρχαιομετρικής Εταιρείας

- Μάρτιος 2006 -

550 BC - Pythagoras - the mathematical mind.



Pythagoras (582-500 BC) suggested that matter and mind are mystically connected. Logic, numbers, spirit, and soul were expressions of the same reality. He thought the soul to be immortal and wandering on a path of transmigration from one body to another. The Pythagoreans had a geometrical conception of the world. They believed that mind is attuned to the processes of nature, in particular to the laws of mathematics. Mathematics is seen as the true essence of mind. (<http://www.thebigview.com/> ®)

Newsletter of the Hellenic Society of Archaeometry

- March 2006 -

Nr. 61

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ΑΡΧΑΙΟΛΟΓΙΚΟ ΧΩΡΟ ΤΗΣ ΒΕΡΓΙΝΑΣ, 1984-2004, Γ. Ν. Τσόκας,
Γ. Βαργεμέζης, Π. Τσούρλος, Σ. Δρούγου, Χ. Σαατσόγλου-Παλιαδέλη

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ΣΥΝΕΔΡΙΑ - CONFERENCES/WORKSHOPS

**CANADIAN INSTITUTE SPRING
LECTURE PROGRAMME**

The Canadian Institute in Greece
invites you to its lecture programme for spring 2006

Dr. Deborah Ruscillo
(Research Associate, Department of Anthropology, Washington University)
“Royal Purple in Minoan Crete”
Wednesday, 22 February

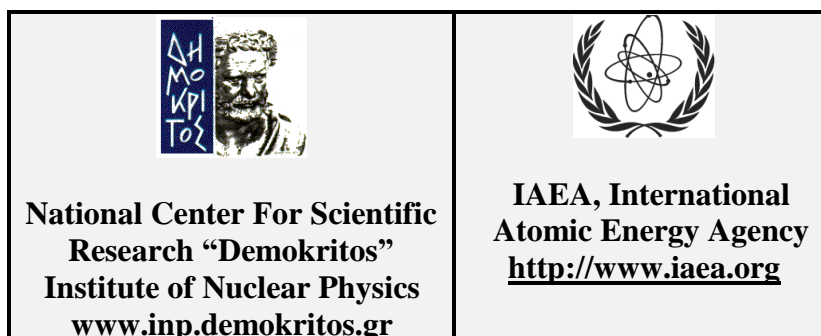
Dr. Martin Kreeb
(German Archaeological Institute)
“The early years of the National Archaeological Museum in Athens”
Wednesday, 29 March

Kimberley-Anne Pixley
(Thompson Fellow, Canadian Institute in Greece)
**“Social Hierarchy in Archaic and Classical Athens:
the Evidence from Vase-Painting”**
Wednesday, 12 April

lectures will take place in the library of the Canadian Institute
Dionysiou Aiginitou 7, Ilisia (3rd floor)

Time: 7.30 pm

refreshments



**TECHNICAL COOPERATION PROJECT -
 RER/1/006 -“NUCLEAR TECHNIQUES FOR THE
 PROTECTION OF CULTURAL HERITAGE
 ARTEFACTS IN THE MEDITERRANEAN REGION”**

**Training course in Athens 27/3/2006 - 31/3/2006
 “Implementation of portable X-Ray Fluorescence Analysis and Ion-
 beam Methods in Cultural Heritage studies” - DRAFT programme**

Day/Time		Topics	Proposed Lecturer(s)
Monday 27/3/2006			
Introduction to the Training Course	Morning 9:00-9:20	Welcoming address's	
	Morning 9:20-9:40	- General presentation, Objectives and Expected Results of the RER/1/006	Dr. A. Markowicz
	Morning 9:40-10:15	- Objectives of the training course - Presentation of each participant	Dr. A. Karydas
	10:15-10:45	Coffee break	
Introduction to Analytical Atomic and Nuclear Methods	Morning 10:45 – 11:15	Introduction /Review of Nuclear Analytical Techniques in support of study of CH artefacts	Prof. Rene V. Grieken
	Morning 11:15 – 11:45	Introduction to the X-Ray Fluorescence Technique and its Analytical applications in the CH field	Dr. A. Karydas
	11:45 – 12:30	Guidance to the Accelerator Laboratory	Dr. S. Harissopoulos, Dr. Ch. Zarkadas
	12:30 – 14:00	Lunch	
Introduction to conservation issues of cultural materials	Afternoon 14:00 - 14:45	On the effects of pollutants on works of art	Prof. Rene V. Grieken
	Afternoon 14:45 - 15:15	The conservation policy and priorities in Greece	A. Mwraitou
	15:15 – 15:45	Coffee break	
Introduction to portable XRFA	Afternoon 15:45 – 16:30	In-situ XRFA. General concepts	Dr. A. Markowicz
	Afternoon 16:30 – 17:00	Characteristics of a portable XRF spectrometer; Instrumentation, Design criteria/ Specifications for optimum performance	Dr. Ch. Zarkadas
Practical Training – Session A'	Afternoon 17:00 – 18:00	Practical Demonstration and Training Activities with the milli-beam portable XRF spectrometer	Dr. A. Karydas and Dr. Ch. Zarkadas

Day/Time		Topics	Proposed Lecturer
Tuesday 28/3/2006			
Methodology for the Non-Destructive analysis of CH artefacts	Morning 9:00 - 9:45	2D and 3D Micro-XRF analysis for CH materials. Current status	Dr. B. Kanngiesser
	Morning 9:45 -10:30	Methodology of in-situ XRFA	Dr. A. Markowicz
	Morning 10:30 -11:00	Coffee Break	
	11:00 -12:00	Well defined questions, the key to meaningful ND analyses	Dr. E. Aloupi
	12:00 -12:30	Demonstration activity at the Tandem Laboratory (Tentative, since next months the accelerator infrastructure will be under refurbishment)	Dr. S. Harissopoulos, Dr. A. Lagoyannis Dr. Ch. Zarkadas
	12:30 – 14:00	Lunch	
Quantitative XRFA	Afternoon 14:00 – 14:45	Quantitation principles in XRFA	Dr. B. Beckhoff
	Afternoon 14:45 – 15:30	Quantification with portable XRF spectrometers: Possibilities and limitations in the analysis of cultural materials	Dr. A. Karydas
	15:30 -16:00	Coffee Break	
Applications of XRFA in CH: Obsidians - Pottery	Afternoon 16:00 – 16:45	The potential and limitation of the non-destructive XRF techniques in provenance studies of obsidians and pottery artefacts	Prof. G. Pappalardo
Practical Training – Session B'	Afternoon 16:45 – 18:00	Practical Demonstration and Training Activities with the milli-beam and micro portable XRF spectrometers	Prof. R. V. Grieken, Dr. A. Markowicz, A. Karydas and Dr. Ch Zarkadas

Day/Time		Topics	Proposed Lecturer
Wednesday 28/3/2006			
Preventive Conservation	Morning 9:00 – 9:30	Non-destructive diagnostic techniques towards the development of conservation strategies	Prof. B. Argyropoulou
	Morning 9:30-10:30	XRS in preventive conservation	Prof R. Van Grieken
	10:30 -11:00	Coffee Break	
Applications of XRFA in CH: Metals and Pigments	Morning 11:00- 11:45	In-situ XRFA of ancient metals and pigments	Dr. A. Karydas
	Morning 11:45-12:30	The role of the portable XRFA towards the identification of the ancient painting techniques	Dr. H. Brecolaki
	12:30 – 14:00	Lunch	
Atomic and Nuclear Methods for CH studies	Afternoon 14:00 – 14:45	The portable PIXE-ALPHA technique: Applications and limits in the CH field	Dr. L. Pappalardo
	Afternoon 14:45 - 15:30	Non-destructive analyses of ancient metals by combined atomic and Ion-Beam methods	Dr. Paolo Romano
	Afternoon 15:30 – 16:00	Ion beam Analysis for non-destructive profiling studies	Dr. M. Kokkoris
	16:00 – 16:30	Coffee Break	
Practical Training – Session C'	Afternoon 16:30 – 18:00	Practical Demonstration and Training Activities (microXRF spectrometer)	Prof. R. V. Grieken, Dr. A. Markowicz Dr. Ch Zarkadas, Dr. A. Karydas

Day/Time		Topics	Proposed Lecturer
Thursday 30/3/2006			
In-situ Demonstration activities	Morning 8:30 – 9:30	Guidance at the National Archaeological Museum (NAM)	-
	Morning: 9:30 – 11:00	In-situ analyses at the National Archaeological Museum	Prof. R. V. Grieken Dr. A. Karydas – Dr. Ch. Zarkadas – Dr. H. Brecolaki
	Morning 11:00 – 11:45	Coffee Break	
In-situ Demonstration activities	Morning: 11:45-14:00	In-situ analyses at the National Archaeological Museum	Prof. R. V. Grieken Dr. A. Karydas – Dr. Ch. Zarkadas, Dr. H. Brecolaki
	14:00-15:30	Lunch	
		Free afternoon	

Day/Time		Topics	Proposed Lecturer
Friday 31/3/2006			
In-situ Demonstration activities	Morning 9:00 – 11:00	In-situ analyses at the National Archaeological Museum	Prof. R. V. Grieken Dr. A. Karydas – Dr. Ch Zarkadas, Dr. E. Magou
	Morning 11:00- 11:00	Coffee Break	
	Morning 11:30-13:45	In-situ analyses at the National Archaeological Museum	Prof. R. V. Grieken Dr. A. Karydas – Dr. Ch. Zarkadas, Dr. E. Magou
	13:45 -15:00	Lunch	
Discussion – Conclusions - Perspectives	15:00 - 17:00	Round Table Discussion - Conclusions – Perspectives	Tentative: At the conference Hall of the Ministry of Culture, next to the NAM





KMM-NoE Integrated Post-Graduate School
Skill Path, First Intensive Session Krakow,
May 29 – June 2, 2006

“ELECTRON MICROSCOPY”, KMM-NOE **INTEGRATED POST-GRADUATE** **SCHOOL (IPGS)**

1st Intensive Session of Skill Path; Kraków
29 May – 2 June, 2006

ANNOUNCEMENT

About KMM-NoE

The Network of Excellence "Knowledge-based multicomponent materials for durable and safe performance" (KMM-NoE) has been established in order to create a coherent pan-European structure of key institutions in the field of knowledge-based multicomponent materials designed for highly demanding loading and environmental conditions. Such materials include intermetallics, composites and functionally graded materials.

The KMM-NoE brings together a critical mass of 37 organisations (academic and research institutions, SMEs and large industry partners) with high level expertise in the field of knowledge-based multicomponent materials from across 10 countries in Europe.

The main objectives of KMM-NoE are:

- to contribute to the creation of the ERA in the field of knowledge-based multicomponent materials oriented towards advanced industrial applications,
- to network, strengthen and consolidate the fragmented and dispersed RTD potential in this area and apply instruments assuring long-lasting and progressive integration of the core groups in the form of a new legal entity co-operating with external research and industrial networks,
- to continuously enhance the research and technological skills of the Network as well as to gain and hold the leading world position in this area.

Integrated Post-Graduate School - Skill Path

The Integrated Post-Graduate School (IPGS) is one of the important tools of the KMM-NoE for the spreading of excellence in the KMM domain. It is composed of the *Doctoral Path* and the *Skill-Path* offering intensive sessions on advanced topics in the KMM domain.

The Skill Path is targeted at University graduates seeking complementary skills (continuing education) in home institutions and wishing to enhance their knowledge in the topics covered by the KMM-NoE.

The 1st Intensive Session of Skill Path on “**Electron Microscopy**” will be held in Krakow (Poland) on 29 May – 2 June, 2006 and will consist of 3 courses for a total of 20 lectures and 12 hours of laboratory training.

The Session will be organized by the AGH University of Science and Technology (AGH, Prof. A. Czyrska-Filemonowicz; czyrska@agh.edu.pl) and the Institute of Metallurgy and Materials Science of the Polish Academy of Sciences (IMIM, Prof. J. Morgiel; nmmorgie@imim-pan.krakow.pl).

Contact: Dr V. Porcarelli (AGH); e-mail: porcarel@agh.edu.pl; fax: +48 12 617 3190
No cost reimbursement is foreseen. However, there is no registration fee and all admitted participants will be provided with the lecture notes. Lunches might be purchased at the University. The total number of participants is limited to about 30.

PROGRAMME OF THE 1st INTENSIVE SESSION

Course 1: “Scanning Electron Microscopy (SEM)”, 29– 30 May. The course consists in 7 lectures and 6 hours of laboratory training.

Course 2: “Transmission Electron Microscopy (TEM)”, 31 May– 1 June. The course consists in 7 lectures and 6 hours of laboratory training.

Course 3: “Application of Electron Microscopy (SEM, TEM) to Materials Science”, 2 June. The course consists in 5 lectures.

DEADLINES

- Registration: 28 February 2006
- Hotel reservation: 31 March 2006

TENTATIVE PROGRAMME

- **Scanning Electron Microscopy (SEM)**
 1. SEM basics
 2. SEM sample preparation
 3. Generation and detection of X-Rays in SEM
 4. Quantitative X-Ray Analysis in SEM
 5. Electron backscatter diffraction
 6. Orientation imaging microscopy (OIM)
 7. OIM data post-processing
- **Transmission Electron Microscopy (TEM)**
 1. TEM basics
 2. TEM sample preparation: part 1
 3. TEM sample preparation: part 2 (FIB)
 4. Electron diffraction
 5. Analytical electron microscopy: part 1 (EDS)

6. Analytical electron microscopy: part 2 (EELS/EFTEM)
 7. High resolution electron microscopy
- **Application of EM (SEM, TEM) to Materials Science**
 1. Quantitative characterization of microstructure by EM methods (examples: Ni-base superalloys, 9%Cr steels)
 2. Characterisation of phases in multiphase materials by EM methods (example: multilayered Ti-base alloys)
 3. TEM characterization of structure of TiAl and NiAl intermetallics
 4. TEM studies of structure of precipitates in a new aluminium alloys
 5. Structure of nanocrystalline-amorphous zirconium and nickel base composites



KMM-NoE Integrated Post-Graduate School
Skill Path, First Intensive Session Krakow,
May 29 – June 2, 2006

REGISTRATION FORM

PERSONAL DATA

First name:
Last name:
Title:
Nationality:
Gender (M/F):
E-mail:
Fax:
Phone:

INSTITUTION

Full name:
Address:
Member of EUMAT?

I intend to participate in the entire Intensive Session (29 May – 2 June, 2006):

(Date)

(Signature)

The registration form should be sent by e-mail or fax and should reach the AGH organizer (Dr V. Porcarelli: e-mail: porcarel@agh.edu.pl, fax: +48 12 617 3190) by 28 February, 2006.

36TH ANNUAL ARCTIC WORKSHOP
INSTAAR, UNIVERSITY OF COLORADO,
BOULDER, COLORADO, 16-18 MARCH
2006

Register and Submit Abstracts

REGISTRATION AND ABSTRACT SUBMITTAL NOW AVAILABLE ONLINE

To register, submit your abstract, reserve lodging, and for more information:

<http://instaar.colorado.edu/AW> or contact: ArcticWS@colorado.edu

DEADLINE for Registration & Abstracts:

22 February 2006

Dr. Ray Bradley (Univ. of Massachusetts Amherst) will present a keynote talk entitled "Global Warming and Washington Heat".

The 36th Annual International Arctic Workshop will be held March 16-18, 2006, at the Institute of Arctic and Alpine Research (INSTAAR), University of Colorado at Boulder. The meeting is open to all interested in the Arctic, and will consist of a series of talks and poster sessions covering all aspects of high-latitude environments, past and present. Previous Arctic Workshops have included presentations on Arctic and Antarctic climate, archeology, environmental geochemistry, geomorphology, hydrology, glaciology, soils, ecology, oceanography, Quaternary history, and more. Student participation is subsidized by the U.S. National Science Foundation (NSF, grant OPP-0425387).

CALL FOR PAPERS: MORTUARY STUDIES ON CRETE, AIA '07, SAN DIEGO

Dear all,

I would like to invite you to submit an abstract for a colloquium on Prehistoric Mortuary Systems on Crete at AIA '07 in San Diego.

Yours

Joanne M. A. Murphy

Regional and Diachronic Studies on Prehistoric Crete: Mortuary Systems

Colloquium Organizer: Joanne M. A. Murphy, University of Akron

Regional as well as diachronic diversity on Crete during the prehistoric periods has long been recognized for many categories of artifacts such as ceramics and architecture. This colloquium examines Minoan mortuary systems from similar spatial and temporal perspectives.

The studies presented here transcend the early scholarship that focused on superficial differences between different types of cemeteries, tombs, and burials, and the quantities and categories of grave goods, which had revealed an explicit understanding that the tombs acted as a direct reflection of the hierarchy and religious activity of the related society and had postulated that superficial differences or changes in the mortuary activity mirrored significant differences or changes in the related community or culture. This colloquium also builds on more recent studies of Minoan mortuary systems that have combined earlier observations with anthropological paradigms and theories, and have emphasized the valuable and diverse types of insights into the complexities of social structure and stratification, ideologies, and economics of the related communities afforded by mortuary analysis, while focusing on specific time periods or discrete areas of the island.

The aim of this colloquium is to offer a fresh perspective on the mortuary data from prehistoric Crete by bringing together scholars with different spatial and temporal interests to consider and interpret the various social revelations embedded in the assortment of mortuary practices by combining empirical studies with explicit theoretical approaches, and offering an integrated understanding of individual sites, areas, or periods. Papers will be particularly welcomed that use the mortuary treatments to address issues such as regionalism, intra-island studies and/or diachronic studies, construction of identity, territoriality, the cemetery as religious space, manifestation of power struggles, mechanisms for the control of resources and people, and legitimization and normalizations of hierarchies.

Please send a CV and an abstract of no more than 250 words by March 1, 2006 to Joanne M. A. Murphy (murphjm@uakron.edu). In keeping with the regulations of the AIA, please send only electronic submissions. All abstracts must conform to AIA guidelines (see the American Journal of Archaeology style guidelines, published in AJA 104:3-24, or the Annual Meeting Section of the AIA website; esp. §§3.1-8, 6.5., www.archaeological.org). If the colloquium is accepted by the Program for the Annual Meeting Committee, all whose papers are included must be members of the AIA in good standing.

I would like to remind all interested submitters that it is possible for an individual to submit papers for both a colloquium session and an open paper session at the AIA annual meetings. The latter is automatically withdrawn from consideration if the former is accepted.

Joanne M. A. Murphy, PhD
Department of Classical Studies, Anthropology and Archaeology
University of Akron
Akron OH 44325-1910
Tel: 330-972-7318
Fax: 330-972-2338
Email: murphjm@uakron.edu



CERAMIC ECOLOGY XX -- A FEW PLACES AVAILABLE

Colleagues,

It is already time to plan for CERAMIC ECOLOGY XX: CURRENT RESEARCH ON CERAMICS 2006: HONORING LOUANA M. LACKEY (1926-2005).

As in the past, the symposium will be submitted as a volunteered session to the program committee for the annual meeting of the American Anthropological Association to be held in San Jose, California during the period 15-19 November 2006 (before the American Thanksgiving this year).

Dr. Brenda Bowser (California State University, Fullerton, bbowser@fullerton.edu) has graciously agreed to be the discussant this year. The confirmed participants include: Brenda Bowser (discussant), Charles C. Kolb (Introduction), Kostalena Michelaki, Cynthia Pinkston, Mary Hopkins, Elin Danien, and Sandra Lopez de Varela. Several persons who had intended to participate are unable to attend because of the change in date from December to November so that there are a couple of slots available for papers. (If your name is listed in above, you need not reconfirm.) There will be a session devoted to honoring Louana.

Please remember that you must be a member of the American Anthropological Association in order to participate: <http://www.aaanet.org/mtgs/mtgs.htm>. The AAA submission and payment of fees are now totally electronic; the AAA should have the registration forms and links available later in February. Please do not submit a paper to the session on your own, I'll provide explicit instructions.

Contact me ASAP by e-mail if you'd like to participate. Include your name, e-mail address, and topic. It is first-come, first served.

Sincerely,

Charlie

Charles C. Kolb, Ph.D.
Senior Program Officer
National Endowment for the Humanities
1100 Pennsylvania Avenue, NW
Washington, DC 20506
ckolb@neh.gov
202/606-8250 (direct line with voice mail)
NEH Internet <http://www.neh.gov>

**CONFERENCE “ALEXANDER THE
GREAT IN MEDIEVAL AND EARLY
MODERN CULTURE”, THE CENTRE FOR
MEDIEVAL STUDIES AND THE CENTRE
FOR REFORMATION AND
RENAISSANCE STUDIES, UNIVERSITY
OF TORONTO, 8-10 MARCH 2007**

Alexander the Great in Medieval and Early Modern Culture Call for Papers
The Centre for Medieval Studies at the University of Toronto, together with the Centre for Reformation and Renaissance Studies, invites abstracts for a conference entitled “Alexander the Great in Medieval and Early Modern Culture,” 8-10 March 2007.

The life of Alexander the Great is one of the most frequently treated subjects of the Middle Ages. It figures prominently in Latin epic and the vernacular literatures as well as in historiography and the fine arts. Papers on late medieval and early modern treatments of Alexander are especially welcome. Topics might include:

- theorizing the transformations of the medieval and Renaissance Alexander;
- historical, cultural, social meanings and contexts of Alexander texts and artefacts;
- images and constructions of space, gender, and ethnicity;
- the uses of Alexander in genealogical fictions and political representation;
- manuscript and print transmission of Alexander material;
- material culture; Alexander in medieval art; illuminations and woodcuts accompanying Alexander texts;
- literary vs. historiographical status of texts; verse vs. prose; fabulous vs. historical;
- Latin vs. vernacular;
- practice and theory of translation and adaptation of Alexander texts in various vernacular literatures.

Keynote speakers:

Christopher Baswell (UCLA)

Christine Chism (Rutgers)

Klaus Grubmüller (University of Göttingen)

Please send an abstract (max. 250 words) for a paper in English or French and a brief vita or CV which includes institutional affiliation to the organizers (email preferred):

Markus Stock, University of Toronto: markus.stock@utoronto.ca , or: Stefanie Schmitt, University of Frankfurt am Main: schmitt@lingua.uni-frankfurt.de

Consideration of abstracts will begin 31 March 2006.

MARIE CURIE SUMMER SCHOOLS IN EMERGING THEORIES AND METHODS IN SUSTAINABILITY RESEARCH (THEMES)

A series of four Marie Curie Summer Schools in Emerging Theories and Methods in Sustainability Research will be organised by leading universities across Europe. The courses are targeted at PhD students and other early stage researchers. The Norwegian University of Life Sciences coordinates the series.

2006:Analysing Complexity

Barcelona,07-17 June 2006.

Organised by Joan Martinez-Alier,
Autonomous University of Barcelona,Spain.

Keynote speakers:Silvio Funtowicz and
Marina Fischer-Kowalski.

Applications for this summer school are open.

Forthcoming events:

2007:

Institutional Analysis of Sustainability Problems

Bratislava

18-29 June 2007

Organised by Tatiana Kluvankova-Oravska,
Slovak Academy of Sciences,Slovakia

Keynote speakers:Daniel Bromley,
Elinor Ostrom and Jirina Jilkova

2008:

Methods and tools for environmental appraisal and policy formulation

Lisbon

26 May -06 June 2008

Organised by Paula Antunes,
New University Lisbon,Portugal.

Keynote speakers:Clive Spash and
Felix Rauschmayer

2009:

Integrated analysis of complex, adaptive systems

Brighton

15-26 June 2009

Organised by Andy Stirling,
University of Sussex,UK

Keynote speakers: Richard Nelson,
John Gowdy and Peter Allen

Please visit the site: www.umb.no/research/themes

ASOR 2006 CALL FOR PAPERS,
AMERICAN SCHOOLS OF ORIENTAL
RESEARCH ANNUAL MEETING, NOV.
15-18, 2006, WASHINGTON, DC, SESSION
- ARTIFACTS: THE INSIDE STORY

This session welcomes submissions in which the analysis of Near Eastern artifacts by means of physical or chemical techniques has led to a new or re-interpretation of the archaeological record. Paper topics include materials characterization, raw material acquisition, workshop activity, manufacturing techniques, ancient technology, and product distribution. Papers on Eurasian material will also be considered.

One session is planned for 4-5 speakers. Papers will be limited to 20-25 minutes.

Abstracts are limited to 250 words and should be emailed to the Section Chair:, Dr. Elizabeth Friedman at friedman@iit.edu.

Deadline for abstracts is April 1st, 2006 but the section chair would welcome them sooner.

Please check the ASOR website for membership and participation requirements:
<http://www.asor.org/>

Elizabeth S. Friedman, Ph.D.
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Illinois Institute of Technology
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CONFERENCE ETHNOGRAPHIC FILM:
MUSEUMS, DOCUMENTATION,
SCIENCE, 19 – 20 OCTOBER 2006,
ETHNOGRAPHIC MUSEUM, ZAGREB,
CROATIA

Call for papers

The Ethnographic Museum in Zagreb hosts the international professional scientific conference: **ETHNOGRAPHIC FILM: MUSEUMS, DOCUMENTATION, SCIENCE** 19 – 20 October 2006.

In contemporary ethnologic and museum practice, a notable production of ethnological films created for the purpose of individual exhibitions or scientific-research projects started to emerge in the last several years.

The conference is planned as a forum where experts, primarily ethnologists and cultural anthropologists, will be able to show films and briefly present the methods of using this medium in museums and other institutions. Since the scope of our interest includes the scientific film as well, the conference will be also welcome ethnologists who use film in education or for documentation purposes. We also invite contributions illustrating the methods of documenting audio-visual material and the possibilities of protecting such material.

Every thematic unit will be followed by a discussion and exchange of experience in relation with the discussed topics, as well as possibilities of cooperation in future common projects.

Applications:

Please apply by specifying the film title (medium: VHS, DVD and film duration) and providing a 200-word summary in English to the organiser:

Zvezdana Antoš, M.S.

e-mail: zantos@etnografski-muzej.hr

tel. 00385/ 1 4826 220

mobile phone 00385/ 98 196 9291

Etnografski muzej, Trg Mažuranića 14, 10000 Zagreb. Croatia

<http://www.etnografski-muzej.hr>

The application deadline is 15 April, 2006.

If possible, please provide an English translation of the film.

The conference language is English.

The following costs shall be covered by the conference organizer:

- refreshments during the conference intervals
- participation in the welcome reception and the farewell party
- post-conference excursion

To help you in planning, here is a tentative schedule:

Wednesday, October 18	Arrival, welcome reception
Thursday, October 19	Film session and forum
Friday, October 20	Film session and forum
Saturday, October 21	Departure or participation in the excursion

POST-CONFERENCE EXCURSION

Saturday, October 21	Excursion to the Lika region (Otočac, Kuterevo, Krasno) and the town of Senj, including visits to local craftsmen, the Velebit National Park and the Adriatic coast
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Accommodation is provided at few Zagreb hotels at special conference rates:

HOTEL WESTINN *****

<http://www.westin.com/zagreb>

HOTEL DUBROVNIK *****

<http://www.hotel-dubrovnik.hr/>

HOTEL JADRAN ***

http://www.hup-zagreb.hr/lokacija_english.php

Travel:

ZAGREB AIRPORT <http://www.zagreb-airport.hr/en/index.aspx>

AIRPORT PLESO <http://www.plesoprijevoz.hr/about.htm>

CROATIA AIRLINES <http://croatiairlines.hr>

WIZZAIR <http://wizzair.com/>

GERMANWINGS <http://www13.germanwings.com/>

HRVATSKE ŽELJEZNICE <http://www.hznet.hr/ENG/index.htm>

AUTOBUSNI KOLODVOR ZAGREB <http://www.akz.hr/eng.htm>

Useful information:

Zagreb Tourist Board <http://www.zagreb-touristinfo.hr/>

ΥΠΟΥΡΓΕΙΟ ΠΟΛΙΤΙΣΜΟΥ MINISTRY OF CULTURE	ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΙΑΣ ΤΜΗΜΑ ΙΑΚΑ UNIVERSITY OF THESSALY – ΙΑΚΑ DPT
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2ο ΑΡΧΑΙΟΛΟΓΙΚΟ ΕΡΓΟ ΘΕΣΣΑΛΙΑΣ ΚΑΙ ΣΤΕΡΕΑΣ ΕΛΛΑΔΑΣ
2003-2005
ΑΠΟ ΤΟΥΣ ΠΡΟΪΣΤΟΡΙΚΟΥΣ ΣΤΟΥΣ ΝΕΩΤΕΡΟΥΣ ΧΡΟΝΟΥΣ

2ND ARCHAEOLOGICAL MEETING OF THESSALY AND CENTRAL GREECE
2003-2005
FROM PREHISTORY TO THE CONTEMPORARY PERIOD

ΒΟΛΟΣ 16/3/06 – 19/3/06

Πανεπιστήμιο Θεσσαλίας, κτήριο Αλέξανδρος Δελμούζος,
αμφιθέατρο «Γ. Κορδάτος»

Volos, 16/3/06 – 19/3/06

University of Thessaly, Alexandros Delmouzos building,
“G. Kordatos” amphitheatre

ΠΕΜΠΤΗ / THURSDAY 16.3.06

A ΣΥΝΕΔΡΙΑ 1st SESSION	Γενικά Θέματα / General topics	
11.00-11.30		ΧΑΙΡΕΤΙΣΜΟΙ / OPENING
11.30-11.45	A. Reingruber	The Early Neolithic Pottery from Thessaly and Central Greece.
11.45-12.00	Λ. Καρίμαλη	Συστήματα ανταλλαγής λίθινων πρώτων υλών στη Νεολιθική Θεσσαλία: μια συγκριτική εξέταση.
12.00-12.15	Σ. Νανόγλου	Η νεολιθική ειδωλοπλαστική στη Θεσσαλία και τα Βαλκάνια: μορφολογικές διαφορές και τοπικές ταυτότητες.
12.15-12.30	B. Ροντήρη	Η Νεολιθική Κεραμική της Θεσσαλίας: Τεχνολογία και διαχρονικότητα.
12.30-12.45	Θ. Παπαδόπουλος – Λ. Κοντορλή- Παπαδοπούλου	Mycenaean military presence in Central Greece and Thessaly: the evidence of warrior-graves.
12.45-13.00	B. Eder	The northern boundary of the Mycenaean world.
13.00-13.30		ΣΥΖΗΤΗΣΗ / DISCUSSION
		ΔΕΞΙΩΣΗ / RECEPTION
B ΣΥΝΕΔΡΙΑ 2nd SESSION		
17.00-17.15	A. Γούναρης	Οικιστική της Θεσσαλίας κατά την Πρωτογεωμετρική-Γεωμετρική περίοδο: ένας απολογισμός.
17.15-17.30	A. Κοτσώνας	Κεντρική Ελλάδα και Κρήτη κατά την

		Εποχή του Σιδήρου.
17.30-17.45	J.-S. Gros	Techniques de façonnage de la céramique commune de la Grèce Centrale au début de l'Age du Fer.
17.45-18.00	I. Georganas	Dying in Early Iron Age Thessaly.
18.00-18.15	Δ. Παλαιοθόδωρος	Οι εισαγωγές γραπτής κεραμικής από την Ανατολική Ελλάδα στην Θεσσαλία και την Στερεά κατά την ύστερη αρχαϊκή περίοδο.
18.15-18.30	Χρ. Μητσοπούλου	Το Δώτιο Πεδίο, τα Τριόπια και η θεά Δήμητρα.
18.30-19.00		ΣΥΖΗΤΗΣΗ / DISCUSSION
19.00-19.30		ΔΙΑΛΕΙΜΜΑ / BREAK
19.30-19.45	B. Helly	La Thessalie au 3e siècle av.-C.
19.45-20.00	Σ. Κραβαρίτου	Η οργάνωση των «ημερολογίων» στην Αρχαία Ελλάδα: Θεσσαλικά δεδομένα.
20.00-20.15	R. Bouchon	La taxe des affranchis et le financement de la vie publique dans les cités thessaliennes : nouvelle lecture de plusieurs documents du IIe siècle après J.-C.
20.15-20.30	Κ. Σμπόνιας	Γεωγραφικά Συστήματα Πληροφοριών, εθνότητες και κοινωνικο-οικονομικοί μετασχηματισμοί του χώρου: μία μελέτη περίπτωσης από την Οθωμανική Βοιωτία.
20.30-20.45	Γ. Στουρνάρας	Η Θεσσαλία κατά την Οθωμανική περίοδο: Η οργάνωση του χώρου μέσα από τα επιγραφικά δεδομένα.
20.45-21.00	Αρ. Δουλγέρη-Ιντζεσίλογλου	Αρχαιολογικό Ινστιτούτο Θεσσαλικών Σπουδών: Ίδρυση, Πρόγραμμα και Προοπτικές ενός νέου επιστημονικού φορέα του ΥΠΠΟ στη Θεσσαλία.
21.00-21.30		ΣΥΖΗΤΗΣΗ / DISCUSSION

ΠΑΡΑΣΚΕΥΗ / FRIDAY 19.3.06

Γ ΣΥΝΕΔΡΙΑ 3rd SESSION	ΒΟΙΩΤΙΑ-ΦΘΙΩΤΙΑΔΑ / ΒΟΕΟΤΙΑ-ΡΗΤΗΙΟΤΙΣ Προϊστορικά /Prehistoric	
9.00-9.15	E. Farinetti	Assessing the social use of the ancient landscape of Boeotia through the deconstruction of the archaeological record in a GIS environment.
9.15-9.30	Σ. Δημάκη – Σ. Σουβατζή	Προϊστορική έρευνα στην Κοιλάδα του Βοιωτικού Κηφισσού
9.30-9.45	Γ. Τσόκας – Γ. Βαργεμέζης – Α. Σταμπολίδης – Ν. Κυπαρίσση-Αποστολικά	Γεωφυσική διασκόπηση στη θέση Κουτρολού-Μαγούλα πλησίον του Νέου Μοναστηριού

		(Ν. Φθιώτιδας).
9.45-10.00	Αικ. Κυπαρίσση-Αποστολίκα	Μαγούλα Ίμβρου Πηγάδι στο Νέο Μοναστήρι, Βόρειας Φθιώτιδας: Μια νέα, Μέσης Νεολιθικής, εγκατάσταση στα όρια της Θεσσαλικής πεδιάδας.
10.00-10.15	Ε. Κουντούρη – Ν. Λιάρος	Νεολιθική Θήβα: Στοιχεία από νεώτερες έρευνες.
10.15-10.30	Ε. Τσώτα	Ευρήματα της Τελικής Νεολιθικής και ΠΕΙ περιόδου από την ανασκαφή της Ανισόπεδης Διάβασης ΟΣΕ, στη Θήβα.
10.30-10.45	Β. Αραβαντινός	Μυκηναϊκή Θήβα. Από το μύθο στην αρχαιολογία και στην ιστορική σύνθεση. Απολογισμός των ανασκαφών και της έρευνας μιας εικοσιπενταετίας (1981-2005).
10.45-11.00	Ι. Τουρναβίτου	Ζώα, Άνθρωποι και Θάνατος. Ο ρόλος των ζώων στις ταφικές λάρνακες της Τανάγρας.
11.00-11.30		ΣΥΖΗΤΗΣΗ / DISCUSSION
11.30-12.00		ΔΙΑΛΕΙΜΜΑ / BREAK
Δ ΣΥΝΕΔΡΙΑ 4th SESSION	ΒΟΙΩΤΙΑ-ΦΘΙΩΤΙΔΑ / ΒΟΕΟΤΙΑ-ΡΗΤΗΙΟΤΙΣ Γεωμετρικά /Geometric	
12.00-12.15	Α. Λιβιεράτου	Η μετάβαση από την Ύστερη Εποχή του Χαλκού στην Πρώιμη Εποχή του Σιδήρου στην Κεντρική Ελλάδα: Φωκίδα – Ανατολική Λοκρίδα (ΥΕΙΠΓ-ΠΓ περίοδος). Σύνθεση αρχαιολογικών δεδομένων και ερμηνευτική πρόταση.
12.15-12.30	Aleydis Van de Moortel – Ε. Ζάχου	Ανασκαφές στη νησίδα Μήτρου (προσωρινός τίτλος).
12.30-12.45	Φ. Δακορώνια	Η Πρωτογεωμετρική Λαμία.
12.45-13.00	Π. Κουνούκλας	Ο Κύνος στην Πρωτογεωμετρική εποχή.
13.00-13.15	Μ. Παπακωνσταντίνου – Μ. Σιπή	Ανασκαφή νεκροταφείου γεωμετρικών χρόνων στη θέση Άγιος Δημήτριος Καινούργιου νομού Φθιώτιδας.
13.15-13.30	Ε. Φρούσσου	Τροχήλατη τεφρή κεραμική Γεωμετρικής – Αρχαϊκής περιόδου από το Νέο Μοναστήρι Φθιώτιδας.

13.30-13.45	Φ. Δακορώνια – Π. Κουνούκλας – Δ. Μπελέτσης	Ο «Αίας» στον Κύνο: Πρόγραμμα διαχείρισης αρχαιολογικών ευρημάτων μεγάλων ανασκαφικών συνόλων.
13.45-14.15		ΣΥΖΗΤΗΣΗ / DISCUSSION
Ε ΣΥΝΕΔΡΙΑ 5th SESSION 14.15-14.30	ΠΑΡΟΥΣΙΑΣΗ ΑΝΑΚΟΙΝΩΣΕΩΝ ΤΟΙΧΟΥ/PRESENTATION OF POSTERS	
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ	Α. Πεντεδέκα – Ε. Κυριατζή – Ε. Ζάχου	Τεχνολογική και προελευσιακή μελέτη κεραμικής Πρώιμης Εποχής Χαλκού από τον Προσκυνά Λοκρίδας.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Κ. Χαμηλάκη	Νεκροταφείο των ύστερων ρωμαϊκών χρόνων στο Δήλιον Βοιωτίας.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Α. Τσαρούχα	Εκπαιδευτικά προγράμματα και δραστηριότητες της Γ' ΕΠΚΑ.
		ΔΕΞΙΩΣΗ / RECEPTION

ΣΤ ΣΥΝΕΔΡΙΑ 6th SESSION	ΒΟΙΩΤΙΑ- ΦΘΙΩΤΙΑΑ / ΒΟΕΟΤΙΑ- ΡΗΤΗΙΟΤΙΣ Κλασικά - Ρωμαϊκά Classical - Roman	
16.30-16.45	Κ. Καλλιγά	Ελληνιστική Θήβα: η κεραμική της «Οικίας Β» και τα νέα στοιχεία για την δράση του στρατηγού Μόμμιου στην Βοιωτία.
16.45-17.00	Ε. Βλαχογιάννη	Η Χαιρώνεια ως σημαντικό κέντρο παραγωγής ανθεμωτών επιτύμβιων στηλών στους ώριμους ελληνιστικούς χρόνους.
17.00-17.15	Γ. Κίτσου	Επιτύμβιοι Βωμοί και Τράπεζες Προσφορών αρχαϊκών και κλασικών χρόνων από την αρχαία Τανάγρα.
17.15-17.30	M. Pisani	Hellenistic terracotta figurines from Thebes
17.30-17.45	M. Bonanno- Αραβαντινού	Επιτύμβιες στήλες ρωμαϊκών χρόνων από την Τανάγρα με παραστάσεις από τη σφαίρα της λατρείας.
17.45-18.00	F. Cantarelli	Le ultime attività del gruppo italiano nel territorio dell' antica Meliteia.
18.00-18.15	A. Dominguez	Cities and territories in Epiknemidian Lokris.
18.15-18.30	J. Pascual	Applying GIS to the Historical Analysis of Epiknemidian Lokris
18.30-19.00		ΣΥΖΗΤΗΣΗ / DISCUSSION

19.00-19.30		ΔΙΑΛΕΙΜΜΑ / BREAK
Z ΣΥΝΕΔΡΙΑ 7th SESSION	ΕΥΒΟΙΑ / EUBOEA Προϊστορικά – Κλασικά Prehistoric - Classical	
19.30-19.45	Z. Tankosic – I. Mathioudaki	Agios Nikolaos Mylon: Some Speculations on the Bronze Age of Southern Euboea.
19.45-20.00	S. Fachard	A Mycenaean Fortification near Dystos (Euboea)?
20.00-20.15	C. Léderrey	Excavation at Eretria by the Swiss School of Archaeology. New Results and hypothesis concerning some Geometric finds from the West Quarter.
20.15-20.30	Ξ. Χαραλαμπίδου	Ωρωπός – Εύβοια: μια κοινή κεραμεική παράδοση;
20.30-20.45	A. Χατζηδημητρίου	Νεότερα ανασκαφικά δεδομένα από τα νεκροταφεία της αρχαίας Καρύστου.
20.45-21.00	M. Χιδίρογλου	Γεραίστιοί τε καταφυγαί. Ευρυπίδης, Κύκλωψ, 295. Γεραιστός Καρυστίας. Τα πρώτα πορίσματα των ανασκαφών.
21.00-21.15	A. Ριτσώνης	Αποθησαυρισμένο σύνολο σε Ελληνιστικό κτίριο από τον Ωρεό Εύβοιας.
21.15-21.45		ΣΥΖΗΤΗΣΗ / DISCUSSION

ΣΑΒΒΑΤΟ / SATURDAY 18.3.06

Η ΣΥΝΕΔΡΙΑ 8th SESSION	ΘΕΣΣΑΛΙΑ – THESSALY Προϊστορικά – Κλασικά Prehistoric - Classical	
9.00-9.15	K. Βουζαζάκης	Νεολιθικοί οικισμοί στη Μαγνησία. Ανασκόπηση-Ανασύνθεση Δεδομένων.
9.15-9.30	A. Μουνδρέα-Αγραφιώτη - Z.Μαλαकाσιώτη - I.Τουρναβίτου - B.Ροντήρη	Πρώτη συστηματική επιφανειακή έρευνα στη Μαγούλα Ζερέλια, Δήμος Αλμυρού.
9.30-9.45	A. Ντούζουγλη – E. Alram	Η Ύστερη Νεολιθική Θέση «Μαγούλα Βισβίκη» στη Νότια Θεσσαλία.
9.45-10.00	Γ. Τουφεξής	Τρία πήλινα βουκράνια από τον οικισμό της Τελικής Νεολιθικής εποχής στην Παλιόσκαλα, Ν. Λάρισας.
10.00-10.15	Γ. Τουφεξής – Σ. Μανώλης	Ταφές της Νεότερης Νεολιθικής εποχής από το νεολιθικό οικισμό στη θέση Προφήτης Ηλίας Μάνδρας, Ν. Λάρισας.
10.15-10.30	Σ. Κατσαρού – Α. Σάμψων	Σπήλαιο Κύκλωπα Γιούρων της Βόρειες Σποράδες: Μια ιδιαίτερη

		περίπτωση της Μέσης Νεολιθικής.
10.30-11.00		ΣΥΖΗΤΗΣΗ / DISCUSSION
11.00-11.15	B. Αδρύμη-Σισμάνη – Μ. Αλεξάνδρου	Μυκηναϊκός θολωτός τάφος στο Καζανάκι – Ταφικά έθιμα.
11.15-11.30	A. Παπαθανασίου	Το ανθρωπολογικό οστεολογικό υλικό από το Μυκηναϊκό τάφο στη θέση Καζανάκι Βόλου.
11.30-11.45	M.F. Guerra	Provenancing the gold of Kasanaki with ion beam analysis.
11.45-12.00		ΣΥΖΗΤΗΣΗ / DISCUSSION
12.00-12.30		ΔΙΑΛΕΙΜΜΑ / BREAK
Θ ΣΥΝΕΔΡΙΑ 9th SESSION		
12.30-12.45	E. Ασδεράκη – Th. Rehren – Z.Μαλακασιώτη	Γεωμετρικός τάφος στην θέση Βουλοκαλύβα: Μια πρώτη αρχαιολογική προσέγγιση.
12.45-13.00	A. Ευσταθίου – Π. Τριανταφυλλοπούλου	Επιφανειακές και ανασκαφικές έρευνες στο Σωρό.
13.00-13.15	A. Μαζαράκης Αινιάν	Ανασκαφικές έρευνες στο ιερό του Απόλλωνος στο Σωρό (2004-2005).
13.15-13.30	I. Λεβέντη	Τα γλυπτά αναθήματα από το ναό στο Σωρό και η συμβολή τους στην ταύτιση της λατρευόμενης θεότητας.
13.30-13.45	Γ. Βήτος – Μ. Πανάγου	Η κεραμική από το ιερό του Απόλλωνος στο Σωρό.
13.45-14.00	E. Νικολάου – E. Ασδεράκη – K. Τσατσούλη – Α.Γ. Καρυδάς	Μπρούτζινη υδρία από το βόρειο νεκροταφείο της Αρχαίας Δημητριάδας.
14.00-14.30		ΣΥΖΗΤΗΣΗ / DISCUSSION
Ι ΣΥΝΕΔΡΙΑ 10th SESSION 14.30-15.00	ΠΑΡΟΥΣΙΑΣΗ ΑΝΑΚΟΙΝΩΣΕΩΝ ΤΟΙΧΟΥ/PRESENTATION OF POSTERS	
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	B. Αδρύμη-Σισμάνη – T. Rehren – E. Ασδεράκη	Δυο μολύβδινα Μυκηναϊκά αγγεία: Τεχνολογία κατασκευής της.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	M. Αλεξάνδρου – K. Αλματζή	Νοτιοανατολικό νεκροταφείο Φθιωτίδων Θηβών
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Π. Αραχωβίτη – Α. Δουλγέρη-Ιντζεσίλογλου	Αρχαιολογικό έργο στις Φερές.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Θ. Τσουρτσούλης	Εφαρμογή πολυεστερικών ρητινών στον τρόπο έκθεσης αρχαίων αντικειμένων: Το παράδειγμα μιας μαρμάρινης κεφαλής αλόγου.
ΑΝΑΚΟΙΝΩΣΗ	M. Μαργαριτώφ	Προβληματισμοί και προτάσεις

ΤΟΙΧΟΥ/POSTER		συντήρησης σε τμήματα τοιχογραφιών και διακοσμητικών πλαστικής διακόσμησης από το Ανάκτορο της Αρχαίας Δημητριάδας, κατά την ανασκαφική περίοδο 2002-2004.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Β. Αδρύμη-Σισμάνη – Αι. Καλογιάννη – Ευ. Σταμέλλου	Εκπαιδευτικά προγράμματα της ΙΓ' ΕΠΚΑ.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Μ. Βαϊοπούλου – Λ. Χατζηαγγελάκης	Ανάδειξη αρχαιολογικών χώρων Δυτικής Θεσσαλίας.

ΙΑ ΣΥΝΕΔΡΙΑ 11th SESSION	ΘΕΣΣΑΛΙΑ / THESSALY Προϊστορικά – Κλασικά Prehistoric - Classical	
17.00-17.15	Μπ. Ιντζεσίλογλου	Μία τομή στη λειτουργία του αρχαίου θεάτρου Δημητριάδος.
17.15-17.30	Μ. Di Salvatore – Α. Δουλγέρη- Ιντζεσίλογλου – Β. Αδρύμη-Σισμάνη – Π. Αραχωβίτη – Ε. Νικολάου	Storia e Territorio : Ricerche su Pherai Tessalica.
17.30-17.45	Ζ. Μαλακασιώτη	Μνήμες από τη μυκηναϊκή εποχή στη γεωμετρική Άλο.
17.45-18.00	R. Reinders	The Southeast Gate of the Hellenistic city of New Halos.
18.00-18.15	Σ. Κατακούτα	Από τα νεκροταφεία της αρχαίας Φαρσάλου.
18.15-18.30	Α. Tziafalias – Μ. Haagsma – Σ. Karapanou – Σ. Gouglas	Preliminary results of the Survey at the Kastro of Kallithea, Achaia Phthiotis, Thessaly.
18.30-19.00		ΣΥΖΗΤΗΣΗ / DISCUSSION
19.00-19.30		ΔΙΑΛΕΙΜΜΑ / BREAK
ΙΒ ΣΥΝΕΔΡΙΑ 12th SESSION		
19.30-19.45	Λ. Χατζηαγγελάκης	Το Ερευνητικό Έργο της ΛΔ' ΕΠΚΑ κατά τη διετία 2004-2005.
19.45-20.00	Α. Καλογιάννη – Ι. Οικονόμου – Β. Ροντήρη	Τα εργαστήρια κεραμικής στην αρχαία Μητρόπολη Ν. Καρδίτσας.
20.00-20.15	J.-C. Decourt	Cultes de Pythion.
20.15-20.30	Αθ. Τζιαφάλιας	Αρχαίο θέατρο Λάρισας. Προβληματισμοί, προοπτικές αναστήλωσης και ανάδειξης.
20.30-20.45	Γ.Α. Πίκουλας	Το Πρόγραμμα του ΠΘ/ΙΑΚΑ «Οι

		διαβάσεις της Πίνδου: Οδικό δίκτυο και άμυνα» (Η έρευνα στη Θεσσαλία).
20.45-21.10		ΣΥΖΗΤΗΣΗ / DISCUSSION
		ΔΕΙΠΝΟ / DINNER

ΚΥΡΙΑΚΗ / SUNDAY 18.3.06

ΙΓ ΣΥΝΕΔΡΙΑ 13th SESSION	ΦΘΙΩΤΙΔΑ – ΘΕΣΣΑΛΙΑ PHYTOTIS - THESSALY Βυζαντινά / Byzantine	
9.00-9.15	Αικ. Καλαντζή- Σμπυράκη	Το ερευνητικό έργο της 24 ^{ης} ΕΒΑ κατά τον ένα χρόνο λειτουργίας της (Από Οκτώβριο 2004 έως Δεκέμβριο 2005).
9.15-9.30	Α. Γιαλούρη	Ερείπια αγροικίας στη θέση "Άγιος Δημήτριος" Καινούργιου Ν. Φθιώτιδας.
9.30-9.45	Α. Ντίνα	Παλαιοχριστιανικές αρχαιότητες στην παραλία των Φθιωτίδων Θηβών – Νέας Αγχιάλου.
9.45-10.00	Σ. Σδρόλια	Ανασκαφική έρευνα στην πλατεία Λαού στη Λάρισα.
10.00-10.15	Β. Συθιακάκη- Κριτσιμάλλη	Σπαράγματα αρχιτεκτονικού διακόσμου από τη βασιλική «του Αγίου Αχιλλείου» Λάρισας. Συμβολή στη μελέτη της οικοδομικής ιστορίας του μνημείου.
10.15-10.30	Α. Δεριζιώτης – Σ. Κουγιουμτζόγλου	Νεώτερες έρευνες στην χριστιανικήν Περραιβίαν (Ανασκαφικές έρευνες στο «Καστρί» Δολίχης-Λιβαδίου).
10.30-10.45	Μ. Βλαχάκη	«Θησαυρός» νομισμάτων από το Πύθιο Ελασσόνας.
10.45-11.15		ΣΥΖΗΤΗΣΗ / DISCUSSION
11.15-11.45		ΔΙΑΛΕΙΜΜΑ / BREAK
ΙΔ ΣΥΝΕΔΡΙΑ 14th SESSION		
11.45-12.00	Ι. Βαραλής	Δύο ανάγλυφες εικόνες από τη Θεσσαλία στο Βυζαντινό και Χριστιανικό Μουσείο Αθηνών.
12.00-12.15	Π. Ανδρούδης	Παρατηρήσεις στον Υστεροβυζαντινό γλυπτό διάκοσμο των εκκλησιών του δυτικού Πηλίου.
12.15-12.30	Α. Αναστασιάδου – Μ. Κοντογιαννοπούλου	Το επιτύμβιο επίγραμμα της Παλαιολόγου στη Μακρινίτσα του Πηλίου και η σχέση του με τα ταφικά μνημεία των Μαλιασηνών της Μαγνησίας.
12.30-12.45	Π. Ευγενικός	Παρατηρήσεις σε εικονιστικά γλυπτά της Ύστερης βυζαντινής περιόδου από την

		περιοχή του Πηλίου.
12.45-13.00	Δ. Λιάκος	Περί της μεταβυζαντινής γλυπτικής του Θεσσαλικού χώρου.
13.00-13.15	Γ. Πανταζής - Ε. Λάμπρου – Δ. Σοφιανός	Χρονολόγηση του ναού της Υπαπαντής στα Μετέωρα.
13.15-13.30	Λ. Δεριζιώτης	Η αγιογραφία του πρώιμου 16ου αιώνας στην περιοχή του Ν. Λαρίσης (Πρόδρομος ανακοίνωσης).
13.30-14.00		ΣΥΖΗΤΗΣΗ / DISCUSSION
		ΔΕΞΙΩΣΗ / RECEPTION

ΙΕ ΣΥΝΕΔΡΙΑ 15th SESSION	ΘΕΣΣΑΛΙΑ / THESSALY Βυζαντινά / Byzantine	
16.30-16.45	Ι. Βλαχοστεργίος	Κάστρο Φαναρίου Καρδίτσας-Εργασίες αποκατάστασης 2002-2005.
16.45-17.00	Χ. Τσιλιμίγκας	Αποκατάσταση καθολικού Ι. Μονής Ρεντίνης Ν. Καρδίτσας.
17.00-17.15	Κ. Βαφειάδη	Η πατρότητα της εικονογράφησης ναών της Θεσσαλίας του 16 ^{ου} αιώνα. Προτάσεις για την τεκμηρίωση και τη μεθοδολογία.
17.15-17.30	Ε. Τριβυζά	Ο τοιχογραφικός διάκοσμος του καθολικού της μονής Κοιμήσεως της Θεοτόκου Βυτούμα Καλαμπάκας (1600).
17.30-17.45	Σ. Μαμαλούκος – Σ. Σδρόλια	Αρχαιολογικά κατάλοιπα του Όρους των Κελλίων (Κίσσαβος).
17.45-18.00	Κ. Μαντζανά	Ο ναός του Αγίου Γεωργίου Βασιλικής Καλαμπάκας.
18.00-18.15	Ε. Τσιμπίδα	Μνημεία της Ανατολής Αγιάς.
18.15-18.30		ΣΥΖΗΤΗΣΗ / DISCUSSION
18.30-19.00		ΔΙΑΛΕΙΜΜΑ / BREAK
ΙΣΤ ΣΥΝΕΔΡΙΑ 16th SESSION		
19.00-19.15	Κ. Φλώρου	Το ξυλόγλυπτο τέμπλο του ναού Αγίου Νικολάου Τσαριτσάνης: 17ος αι.
19.15-19.30	Π. Ανδρούδης – Μ. Νάνου	Το οικοδομικό συγκρότημα του ναού της Κοιμήσεως της Θεοτόκου και το Επισκοπείο Δημητριάδος στη Μακρινίτσα του Πηλίου.
19.30-19.45	Δ. Παλιούρας	Νεότερα Μνημεία (προσωρινός τίτλος)
19.45-20.00		ΣΥΖΗΤΗΣΗ / DISCUSSION

ΙΖ ΣΥΝΕΔΡΙΑ 16th SESSION 20.00-20.20	ΠΑΡΟΥΣΙΑΣΗ ΑΝΑΚΟΙΝΩΣΕΩΝ ΤΟΙΧΟΥ/PRESENTATION OF POSTERS	
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Μ. Μητσάτσικας	Συντήρηση τοιχογραφιών και εικόνων από την περιοχή Θεσσαλίας.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ	Γ. Σκοτεινιώτης – Κ. Κορμάζος	Συντήρηση τοιχογραφιών και εικόνων περιοχής Θεσσαλίας.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Στ. Σφέτσας	Συντήρηση ψηφιδωτών δαπέδων από την περιοχή Θεσσαλίας.
ΑΝΑΚΟΙΝΩΣΗ ΤΟΙΧΟΥ/POSTER	Αν. Ντίνα	Συντήρηση κοσμημάτων στο εργαστήριο μετάλλων της 7 ^{ης} Εφορείας Βυζαντινών Αρχαιοτήτων.
20.20-20.45		ΑΠΟΛΟΓΙΣΜΟΣ ΕΡΓΑΣΙΩΝ / CONCLUDING REMARKS

ΟΡΓΑΝΩΤΙΚΗ ΕΠΙΤΡΟΠΗ 2^{ου} ΑΕΘΣΕ / ORGANIZING COMMITTEE OF 2ND AETHSE

Πρόεδρος / President

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Αντιπρόεδρος / Vice-president

Βάσω Αδρύμη-Σισμάνη, *Δ/ντρια ΙΓ' ΕΠΚΑ*

Γραμματέας / Secretary

Αργυρούλα Δουλγέρη-Ιντζεσίλογλου, *Δ/ντρια Αρχαιολογικού Ινστιτούτου Θεσσαλικών Σπουδών*

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Αθανάσιος Τζιαφάλιας, *Δ/ντης ΙΕ' ΕΠΚΑ*

Λεωνίδα Χατζηαγγελάκης, *Δ/ντής ΙΔ' ΕΠΚΑ*

ΕΠΙΣΤΗΜΟΝΙΚΗ ΕΠΙΤΡΟΠΗ 2^{ου} ΑΕΘΣΕ / SCIENTIFIC COMMITTEE OF 2ND AETHSE

Βασιλική Αδρύμη-Σισμάνη, *Δ/ντρια ΙΓ' ΕΠΚΑ*

Βασίλης Αραβαντινός, Δ/ντής Θ' ΕΠΚΑ

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Αικατερίνη Δελαπόρτα, Δ/ντρια Εφορείας Εναλίων Αρχαιοτήτων

Αργυρούλα Δουλγέρη-Ιντζεσίλογλου, Δ/ντρια Αρχαιολογικού Ινστιτούτου Θεσσαλικών Σπουδών

Αικατερίνη Καλαντζή-Σμυράκη, Δ/ντρια 24ης ΕΒΑ

Αμαλία Καραπασχαλίδου, Δ/ντρια ΙΑ' ΕΠΚΑ

Ροζίνα Κολώνια, Δ/ντρια Ι' ΕΠΚΑ

Αλέξανδρος Μαζαράκης Αινιάν, Αν. Καθηγητής Κλασικής Αρχαιολογίας παν/μίου Θεσσαλίας, Πρόεδρος ΙΑΚΑ

Αντίκλεια Μουνδρέα-Αγραφιώτη, Αν. Καθηγήτρια Προϊστορικής Αρχαιολογίας παν/μίου Θεσσαλίας

Ασπασία Ντίνα, Δ/ντρια 7ης ΕΒΑ

Μαρία-Φωτεινή Παπακωνσταντίνου, Δ/ντρια ΙΔ' ΕΠΚΑ

Ευτυχία Πουλάκη-Παντερμαλή, Δ/ντρια Εφορείας Παλαιοανθρωπολογίας-Σπηλαιολογίας Βόρειας Ελλάδος

Σταυρούλα Σαμαρτζίδου, Δ/ντρια Εφορείας Παλαιοανθρωπολογίας-Σπηλαιολογίας Νότιας Ελλάδος

Αθανάσιος Τζιαφάλιας, Δ/ντης ΙΕ' ΕΠΚΑ

Ελένη Τσοφοπούλου, Δ/ντρια 1ης ΕΒΑ

Λεωνίδας Χατζηαγγελάκης, Δ/ντής ΛΔ' ΕΠΚΑ

ΔΙΑΔΙΚΤΥΑΚΟΣ ΤΟΠΟΣ ΣΥΝΕΔΡΙΟΥ / WEB SITE OF CONGRESS

<http://extras.ha.uth.gr/aethse2/>

ΕΠΙΚΟΙΝΩΝΙΑ / CONTACT

Εργαστήριο Αρχαιολογίας Τμήματος ΙΑΚΑ/ΠΘ

Laboratory of Archaeology of the ΙΑΚΑ Dpt

[archaeolab@uth.gr] (υπεύθυνες : Ελένη Χρυσοπούλου, Εύα Χαραλαμπίδου)

ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΙΑΣ / UNIVERSITY OF THESSALY

ΣΧΟΛΗ ΕΠΙΣΤΗΜΩΝ ΤΟΥ ΑΝΘΡΩΠΟΥ / SCHOOL OF HUMANITIES

ΤΜΗΜΑ ΙΣΤΟΡΙΑΣ, ΑΡΧΑΙΟΛΟΓΙΑΣ ΚΑΙ ΚΟΙΝΩΝΙΚΗΣ ΑΝΘΡΩΠΟΛΟΓΙΑΣ /
DPT OF HISTORY, ARCHAEOLOGY AND SOCIAL ANTHROPOLOGY

Αργοναυτών και Φιλελλήνων / Argonafton & Filellinon

382 21 ΒΟΛΟΣ / VOLOS

τηλ. / tel. 24210-74874

Fax. / fax. 24210-74874

AIA 108TH ANNUAL MEETING, SAN DIEGO, CALIFORNIA, JANUARY 4-7, 2007

The AIA will hold its 108th Annual Meeting in San Diego, California, January 4-7, 2007. For the 2007 Annual Meeting, the program committee is particularly keen to receive submissions on the following topics: European Prehistory; Ancient Near East; and thematic papers from any region or period that address use of sacred space, funerary art and practices, patterns of urbanism, and identifying ethnicity in the physical record. All submissions, of course, must pass the PAMC's vetting process to be put onto the program. As with past meetings, all submissions must be made electronically. The online submission forms and supporting documents are now available on the AIA website.

* Download 2007 Call for Papers –

<http://www.archaeological.org/pdfs/annualconference/2007CFP.pdf>

* Online Submission Forms –

<http://www.archaeological.org/webinfo.php?page=10193>

Student Awards

The AIA would also like to encourage graduate students to submit proposals for the annual meeting. There are currently two awards for student presenters: The Graduate Student Poster Award and the Graduate Student Paper Award. The Poster Award is a cash prize of \$250, and will be presented to the poster deemed "Best poster designed entirely by a student or students." Student posters are also eligible in the best poster and first runner up categories. The Paper Award is presented for the best paper authored and delivered by a graduate student. The prize will consist of books donated by exhibitors at the meeting. Papers and posters to be considered must first be submitted to and accepted by the AIA Program Committee for either an open session or as part of a colloquium using normal criteria for acceptance. Full details are available in the 2007 Call for Papers. Student posters are also eligible in the best poster and first runner up categories.

INTERNATIONAL CONGRESS
“CHRONOLOGY AND EVOLUTION IN
THE MESOLITHIC OF N(W) EUROPE”,
BRUSSELS, 30TH MAY - 1ST JUNE 2007

Dear colleagues,

The research group Prehistory of Ghent University and the Radiocarbon Laboratory of the Royal Institute for Cultural Heritage (Brussels) will organise an international congress in spring 2007 entitled “Chronology and evolution in the Mesolithic of N(W) Europe”. The meeting will take place in Brussels from Wednesday 30th of May till Friday the 1st of June 2007.

The major topics of the meeting are:

- Recent progress in the absolute chronology of the Mesolithic
- Evolutionary trends within the Mesolithic

Additional information about this congress can be found on the website <http://www.mesolithicchronology.ugent.be>

The organising committee would like to invite you to this meeting and welcomes proposals for papers and/or posters dealing with one of these subjects.

Proposals can be sent by e-mail to:

Sincerely yours,

Philippe Crombé Philippe.crombe@UGent.be

Mark Van Strydonck mark.vanstrydonck@kikirpa.be

M. Serck-Dewaide

J. Sergeant

M. Bats

M. Boudin



THE SIXTH CONFERENCE ON THE BEGINNINGS OF THE USE OF METALS AND ALLOYS (BUMA VI), 15TH - 20TH SEPTEMBER 2006, BEIJING AND ANYANG, P. R. CHINA

Second Circular

One of our main Supporting Organizations, the Needham Research Institute (NRI) in Cambridge, has agreed to provide its web site for the use of BUMA VI. From now on, we shall post future updates to the conference programme, registration details and information on travel and hotels on the NRI web site as follows:
<http://www.nri.org.uk/BUMA.htm>

We will not be sending further mailings so please refer to the web site. You can find the first circular on the web site too.

We are pleased to announce that the Institute for Archaeo-Metallurgical Studies (IAMS), London, has joined us to become one of the major organizers of BUMA VI and will financially support the conference. The University of Science and Technology Beijing and the China Numismatic Museum have also agreed to provide financial support to the BUMA VI conference.

Theme and Sessions

The general theme of BUMA VI is 'Metallurgy and Civilisation'. Discussions will be focussed on the impact of the emergence and use of metals on the development of human civilisations. A number of topics have already been suggested, such as 'Early Metallurgy in the Eurasian Steppe', 'Lost Wax Casting Technology: origins and diffusion', 'The Origins of Piece-mould Casting Technology', and 'Copper and Lead smelting in Continental China'.

Programme Schedule:

15 September: arrival, registration and reception

16-17 September: conference sessions

18 September: morning: conference sessions

afternoon: travel by train to Anyang

(Those who prefer to stay in Beijing can do so as they like).

19 September: visit to the Anyang Museum and archaeological sites

night train back to Beijing

20 September: conference sessions, closing ceremony

21-27 September: A post-conference academic excursion to Kunming and Dali in Yunnan Province will be organised in cooperation with a travel agency. There will be another international conference on traditional crafts in the regions where ethnical minorities lived for those who may like to participate in. Further information will be provided later.

There will also be an International Symposium on Bronze Industry and Early Civilization held in Tongling City of Anhui Province during September 24-26, 2006, which is organised by the Centre for the Study of Ancient Civilizations at Peking University and other relevant institutions. Those who are interested in the symposium may arrange their travel plan accordingly.

Practical Information

Venue: Conference Centre, University of Science and Technology Beijing

Conference Language: English

Accommodation: Conference Centre, University of Science and Technology Beijing
(US\$30.00 "C US\$40.00/night-person)

Registration fees:

Regular							Participant
Registration	and	payment	before	15	May	2006:	US\$250.00
Registration	and	payment	after	15	May	2006:	US\$300.00
Accompanying							Person
Registration	and	payment	before	15	May	2006:	US\$130.00
Registration	and	payment	after	15	May	2006:	US\$150.00

Payment: All payment from non-PRC participants should be in US dollars by Bank Transfer to:

Account number: 0200006219200080785

Account name: University of Science and Technology Beijing

Industrial and Commercial Bank of China
Beijing Municipal Branch, Beijing, PRC

Please state clearly that your payment is for BUMA VI registration fees.

Estimation of costs:

A number of scholars have asked about the overall costs for travelling and staying in China during the BUMA conference. We would like to offer a rough estimate based on the information currently available. Please be aware about possible changes in the coming months.

The overall costs for accommodation and train tickets in Beijing and Anyang during 15-20 September would be US\$ 250.00-300.00 per person.

The post-conference excursion to Yunnan, including the overall costs for air tickets, accommodation and travel expenses would be about US\$ 700.00 per person. Please note that this estimation has not included the costs for food, museum tickets and so on.

Important Dates

Deadline for acceptance of abstracts: 15 March 2006

Deadline for regular registration: 15 May 2006

Deadline for determination of the final conference programs: 31 May 2006

Third Circular: June 2006

Opening of the Conference: 16 September 2006

We look forward to seeing you in Beijing in September.

Yours sincerely,

Jianjun Mei

Drs. Jianjun MEI and Wei QIAN
Institute of Historical Metallurgy and Materials,
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P. R. CHINA
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**16TH EUROPEAN MEETING OF THE
PALEOPATHOLOGY ASSOCIATION,
AUGUST 28TH - SEPTEMBER 1ST 2006,
SANTORINI, GREECE**

Call for abstract submissions

We are pleased to inform you that the web site for the 16th European Meeting of the Paleopathology Association, which is going to be held from August 28th to September 1st 2006 in Santorini, Greece, is now accepting abstract submissions. The deadline for both poster and podium presentations is March 30th, 2006. We are looking forward to your submissions and to seeing you in Santorini in August.

url of the website: www.16thpaleopathology.org

The organizing committee

MINOAN SEMINAR

Marika Zeimbeki – 27th February 2006 – 19.30

Danish Institute at Athens, Herefondos 14A, Plateia Aghias Aikaterinis, Plaka

THE CLAY ANIMAL FIGURES FROM THE JUKTAS SANCTUARY, CRETE

Clay animal figures were prominent votives in the Cretan sanctuary of Juktas during the palatial period and the LM IIC period while a smaller number of figures were dedicated at the site during the Iron Age. This particular aspect of the ritual at Juktas is the object of a forthcoming monograph which focuses on the systematic study of the 4294 animal figures and fragments thereof, and the analysis of the archaeological data derived from the excavation of this material.

The findings relating to the following research aims of this work will be presented at the seminar:

- 1) The assessment of the dating, manufacturing techniques, decoration and stylistics of this diverse assemblage of figures.
- 2) The identification of the spatial distribution and find contexts of the animal figures during the site's successive periods of use.
- 3) The attempt to resolve problems which, while specific to this material, have a wider bearing on matters relating to the development of Aegean animal figuration and the history of Aegean ritual.

WEBSITE - WWW.MINOANSEMINAR.GR includes full programme and changes as well as abstracts in Greek and English and a corner for contributions and notices (not refereed) on Minoan Crete.

EMAIL - SECRETARY@MINOANSEMINAR.GR

Colin Macdonald

**I - QMDAA, INTERNATIONAL SUMMER
SCHOOL IN QUANTITATIVE METHODS
AND DATA ANALYSIS IN
ARCHAEOLOGY, UNIVERSITY OF
SIENA, VILLA LANZI, CAMPIGLIA
MARITTIMA (ITALY), SEPTEMBER 10-
17, 2006**

First Call for Participation

[http://www.archeogr.unisi.it/qmdaa/
qmdaa@unisi.it](http://www.archeogr.unisi.it/qmdaa/qmdaa@unisi.it)

AIM

The archaeological research, from diagnosis to publication, represents a scientific process that involves, on different scales, the application of quantitative and analytical methods. This aspect of the archaeological discipline has been greatly improved and enhanced by the introduction of computer applications, and more specifically their use in archaeological data storage, manipulation and analysis. Despite advances in computational techniques, formalization and correct application of quantitative methodological procedures remain, nevertheless, a fundamental requirement for a rigorous and strict methodological approach. In other words, "data analysis" remains a central issue for almost every archaeological research process: excavation, landscape archaeology and materials and remains studies.

The School is aimed at students, postgraduate students, researchers and professionals in the archaeological field interested and/or committed in the field of computer applications in archaeology that wish to strength and consolidate their methodological and theoretical expertise and knowledge in the fields of quantitative methods and data analysis. The School is organized by the Archaeology Department of the University of Siena, under the auspices and with the collaboration of the Department of Mathematics of the University of Parma. The I-QMDAA is part of the International Summer School in Archaeology of the University of Siena.

SCHOOL OUTLINE

The courses aim to provide the students a comprehensive and basic introduction to methodological concepts in the areas of descriptive statistics, explorative analysis of archaeological data, computer science concepts and tools for data analysis, GIS

applications for study and analysis of spatial data and artificial intelligence applications in the archaeological research process.

The school will run for 6 consecutive days. The daily schedule consist of 8 hours split into 2 hours lectures. A good familiarity and knowledge of computer systems and applications will be required. The official language of the school is English. Students may also request to the organizers a final test as a certificate for the acquisition of postgraduate program credits.

PROGRAMME & LECTURERS

Roberto Bagnara, Dipartimento di Matematica, Università di Parma/Computer Science Concepts for Archaeologists/

Antonio Moro, Facoltà di Ingegneria, Università di Firenze /Spatial Data and Complexity/

Juan A. Barcelo, Departament de Prehistòria, Universitat Autònoma de Barcelona /Explaining the Shape, Size, Texture and Composition of Archaeological Artifacts: A Neurocomputational approach/

Hans Peter Blankholm, Institutt for arkeologi, Universitetet i Tromsø/The State of the Art of Intra-site Spatial Analysis/

Mark Lake, Institute of Archeology, University College of London /Agent-based Modelling in Archaeology/

Benjamin Ducke, Christian-Albrechts-Universität zu Kiel/G.I.S. and Predictive Modelling in Archaeology/

Kenneth Kvamme, Department of Anthropology, University of Arkansas/Archaeological Predictive Modelling/

Giancarlo Macchi, Dipartimento di Archeologia e Storia delle Arti, Università di Siena /Spatial Analysis: Human Settlement Pattern Analysis/

THE VENUE

The I-QMDAA Summer School is to be held in the congress centre of Villa Lanzi, near Campiglia Marittima(South Tuscany). This facility is located in the middle of the outstanding Archaeological-Mines Park of San Silvestro. The central feature of the park is the medieval castle of San Silvestro excavated during the eighties and nineties by the Archeology Department of the University of Siena.

ACCOMMODATION

The sleeping facility for the Summer School will be Palazzo Gowett, a nice hostel few meters far from Villa Lanzi and from the castle.

REGISTRATION & FEES

The registration fee covers the lectures, course notes, full board from the 11th to 16th September and social events. Early application is strongly recommended.

The fee for the school is *490 euros*: double room accommodation. The fee will cover also dining and lodging expenses. Prospective students should however send a complete Curriculum Vitae. Fees include expenses for lodging, dining, tour to the Baratti Gulf Area & Populonia excavations, and a Social Dinner. Be aware of the fact that students will have to cover personal travel costs and personal additional expenses.

APPLICATIONS

The number of participants is limited to 26. If the number of applicants exceeds this limit, applicants will be accepted on the basis of the submitted Curriculum Vitae. In order to have a balanced attendance from different countries, national distribution will be also taken into consideration. The application request, as well as Curriculum Vitae, must be sent to qmdaa@unisi.it no later than July 1st, 2006. Applicants will be notified of acceptance no later than July 15th.

SCIENTIFIC COMMITTEE

Prof. Roberto Bagnara
Department of Mathematics, University of Parma
<http://www.cs.unipr.it/~bagnara/>

Prof. Riccardo Francovich
Archaeology Department, University of Siena
<http://archeologiamedievale.unisi.it/NewPages/DOTT/riccardo1.html>

Dr. Giancarlo Macchi
Archaeology Department, University of Siena
<http://www.archeogr.unisi.it/asiala/>

FURTHER INFORMATION

For further information and updates, please see: <http://www.archeogr.unisi.it/qmdaa/>
or contact the School Organizers at the email address qmdaa@unisi.it

ΘΕΣΕΙΣ ΕΡΓΑΣΙΑΣ/ΥΠΟΤΡΟΦΙΕΣ –
JOB VACANCIES/FELLOWSHIPS

RESEARCH FELLOW
(EGYPTOLOGY/ARCHAEOLOGICAL
SCIENCE)

This is just to let you know that there is currently a post advertised for a Research Fellow (Egyptology/Archaeological Science) at the Research Laboratory for Archaeology, University of Oxford. Please see: <http://www.jobs.ac.uk/jobfiles/XY695.html>

Christopher Ramsey

Dr. Christopher Bronk Ramsey
Director, Oxford Radiocarbon Accelerator Unit
<http://www.rlaha.ox.ac.uk/c14>

MICHAEL VENTRIS MEMORIAL **AWARD FOR MYCENAEAN STUDIES**

The Trustees of the Michael Ventris Memorial Fund offer an annual award of up to £2,000 to postgraduate students or young scholars who have obtained a doctorate within the past five years in the field of Mycenaean civilization or kindred subjects.

The Fund was founded in 1957 in memory of Michael Ventris, in appreciation of his work in the fields of Mycenaean civilization and architecture. The Award for Mycenaean Studies is intended to promote research in (1) Linear B and other Bronze Age scripts of the Aegean and Cyprus, and their historical and cultural connections and (2) all other aspects of the Bronze Age of the Aegean and Cyprus. A second appeal launched in 1988 enabled the Trustees to extend the number and value of the Awards. It is intended that the Award, which is open to applicants from all countries, should support a specific project which may be part of a continuing programme of research. The successful candidate will be required to submit a written report to the Advisory Committee on the work that the Award has enabled him or her to complete. He or she may be invited to make a public presentation of the results at the Institute of Classical Studies.

Applications must be typewritten and should be sent to the Administrative Officer, Institute of Classical Studies, Senate House, Malet Street, London WC1E 7HU not later than 23 February 2006. Applicants should give particulars of their age, qualifications, academic record, and should outline the work they intend to pursue in the event of the Award being made to them. They should also give the names and addresses of two referees, and, at the same time, ask the referees to write independently in support of their application. Email applications and references are NOT accepted.

The Award will be made by an Advisory Committee appointed by the Institute of Classical Studies and the Architectural Association acting jointly. Payment will be in one single sum in April each year. The Committee reserves the right to make no Award in any given year or to invite a scholar to hold the Award in a particular year. If sufficient money is available, the Committee may from time to time make small grants from the Fund.

Dr O. H. Krzyszkowska
Institute of Classical Studies
Senate House
Malet Street
London WC1E 7HU
tel: (+44) 0207 862 8700 / 8715
fax: (+44) 0207 862 8722
admin.icls@sas.ac.uk
olgak@sas.ac.uk

FIELDWORK OPPORTUNITY IN PYLOS

Dear colleagues,

We are now accepting applications from students and volunteers for the Iklaina Archaeological Project, in early June. The project is an investigation of a Mycenaean district capital in Pylos. It includes both excavation and survey, and also visits to major archaeological sites and museums and evening lectures. It can be taken as a credit course (6 cr.h.) or just for fun.

If you knew of any students who might be interested and would like further information, we would be obliged if you could direct them to our website: www.iklaina.org.

With many thanks and best wishes,

Michael Cosmopoulos

Michael B. Cosmopoulos, Ph.D.
Hellenic Government-Karakas Foundation Chair of Greek Studies and Professor of
Archaeology
Department of Anthropology
University of Missouri-St. Louis
St. Louis, MO. 63121
Tel. (314) 516-6241
Fax (314) 516-7235
www.greekstudies.org



DEPARTMENT OF GEOGRAPHY,
UNIVERSITY OF WALES SWANSEA,
NERC, PHD OPPORTUNITY

Applications are invited for a Natural Environment Research Council (NERC) funded studentship at the University of Wales Swansea. NERC provides generous financial assistance to PhD students. Funding will be granted to one of several proposed projects in the Department of Geography. Unfortunately full funding is restricted to UK residents. Further details of the studentship may be obtained from the departmental web-page:

<http://geography.swan.ac.uk/pgrdinfo/pgradops2006.htm>

The closing date for NERC applications is 24th March 2006.

We also welcome applications funded from other sources!

Best wishes,

Iain

MITROU ARCHAEOLOGICAL PROJECT **(EAST LOKRIS, GREECE) 2006 FIELD** **SCHOOLS**

Please announce to your students:

Just as last year, the Mitrou Archaeological Project (East Lokris, Greece) is organizing two field schools in 2006. We will have a basic field school for students with little or no experience and an advanced field school in mortuary analysis.

Basic field school students will learn all aspects of the excavation, from digging and recording to the processing of artifacts. Advanced field school students will learn how to excavate, process, and study human remains. Students in both field schools will have lectures, seminars, and field trips in the afternoons and longer field trips on weekends.

Our field schools will run for 7 weeks, from June 15 - August 2. The \$3,600 fee covers tuition, room, board, and local transportation (not airfare). Students who successfully complete the field school will earn 7 credits through College-Year-in-Athens or the University of Florida. An 8th credit can be earned by writing a research paper.

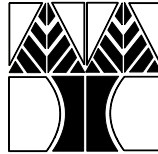
We are still accepting applications until March 1. For more information, please see our web site: <http://www.mitrou.org>, or contact the instructors: Prof. Joanne Murphy [murphjm@uakron.edu] for the basic field school, and Dr. Susan Frankenberg [sfranken@utk.edu] for the mortuary analysis field school.

Many thanks,

Aleydis Van de Moortel

Aleydis Van de Moortel, Ph.D.
Assistant Professor, Dept. of Classics
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University of Tennessee
Knoxville, TN 37996-0413, U.S.A.
Phone 1(865) 974-8279
Fax 1(865) 974-7173
Co-director, Mitrou Archaeological Project, <http://www.mitrou.org>
Secretary/Treasurer AIA/East Tennessee Society,
<http://web.utk.edu/~classics/aia/aia.html>

ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ ΤΜΗΜΑ ΦΥΣΙΚΗΣ



Προκήρυξη για Δύο Θέσεις Επισκεπτών Καθηγητών

Το Τμήμα Φυσικής του Πανεπιστημίου Κύπρου δέχεται αιτήσεις για δύο Επισκέπτες Καθηγητές ένα στη Θεωρητική και ένα Πειραματική Φυσική για το Ακαδημαϊκό Έτος 2006-2007 (1 Σεπτεμβρίου 2006 – 15 Ιουνίου Δεκεμβρίου 2007). Η θέση μπορεί να είναι για ένα εξάμηνο ή για ολόκληρο το ακαδημαϊκό έτος.

Οι ενδιαφερόμενοι καλούνται να στείλουν αίτηση μαζί με βιογραφικό σημείωμα, μέχρι την Παρασκευή, 31 Μαρτίου 2006, στη διεύθυνση:

**Τμήμα Φυσικής
Πανεπιστήμιο Κύπρου
Τ.Κ. 20537**

**CY-1678 Λευκωσία
ΚΥΠΡΟΣ**

Η μισθολογική κλίμακα συμπίπτει με αυτή των Ακαδημαϊκών θέσεων της αντίστοιχης βαθμίδας.

Για περισσότερες πληροφορίες παρακαλώ αποταθείτε στο Τμήμα Φυσικής:

Τηλ.: (00357)-22892820,
Fax: (00357)-22892821
e-mail: psmarkou@ucy.ac.cy,
ccc@ucy.ac.cy

INTERNET SITES

THE UNIVERSITY OF MICHIGAN
PAPYRUS COLLECTION

Please visit the site: <http://www.lib.umich.edu/pap/index.html>

BULGARIAN GOLD

When the amazing royal tomb in the Valley of the Thracian Kings was uncovered in August 2004, I was frustrated at not being able to see more than a couple of tiny pictures on the web. I have obtained permission to publish a number of images on my website, & have just put them up at: <http://nauplion.net/BulgarianGold.htm>

This is the tomb of Seuthes III, who was a contemporary of Philip II of Macedon, & the grave goods are quite similar. The most remarkable aspect, perhaps, is that Seuthes' body had been dismembered at burial, in the Orpheus tradition. This is apparently the first such burial discovered.

Diana Wright
DianaGWright@COMCAST.NET

PROTECTED UTAH CANYON ON TAC

Friends and colleagues: Archaeologists in western North America rarely encounter pristine archaeological sites exposed in the open, largely because relic hunters find the sites first and remove whatever might have value to them. That's one big reason why the story of Range Creek Canyon, whose sites have been protected by a ranching family for generations, is so utterly fascinating. You can experience that fascination in *Secrets of the Lost Canyon*, the latest video feature on our nonprofit streaming-media Web site, *The Archaeology Channel* (<http://www.archaeologychannel.org>).

When it was revealed in 2004, Range Creek Canyon became a worldwide sensation. In a special parcel of land wedged in a remote corner of Utah, the Wilcox family had protected hundreds—if not thousands—of ancient Fremont Culture archaeological sites. But other stories lurk behind the headlines and media hype: political deal making, competing interests forced into uneasy alliances and unspoken pressures that could shape the fate of the canyon. *Lost Canyon*, produced by Salt Lake City TV station KUED, captures the first glimpses of untouched rock art, houses and artifacts in wilderness-like settings.

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 our nonprofit public-education and visitor-supported programming. We also welcome new content partners as we reach out to the world community.

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



WINTER, 2006, ISSUE OF THE CSA NEWSLETTER. VOLUME XVIII, NO. 3

Announcing the Winter, 2006, issue of the _CSA Newsletter._ Volume XVIII, No. 3, of the CSA Newsletter is now available at <http://csanet.org/newsletter/#winter06>

<a href="<http://csanet.org/newsletter/winter06/nlw0601.html>">Still More On XML - Finding a Middle Ground Is XML the issue, or is controlled vocabulary the issue? Tyler Bell & Harrison Eiteljorg, II) <http://csanet.org/newsletter/winter06/nlw0601.html>

<a href="<http://csanet.org/newsletter/winter06/nlw0602.html>">Web Site reviews: FastiOnline good beginning. (Marina De Franceschini) <http://csanet.org/newsletter/winter06/nlw0602.html>

<a href="<http://csanet.org/newsletter/winter06/nlw0603.html>">Even the Superseded Data Are Valuable Good databases keep track of changes as well as final choices. (Harrison Eiteljorg, II) <http://csanet.org/newsletter/winter06/nlw0603.html>

<a href="<http://csanet.org/newsletter/winter06/nlw0604.html>">Google Earth(tm) and Some Practical Applications for the Field of Archaeology A valuable new tool for scholars. (Lee Ullmann and Yuri Gorokhovich) <http://csanet.org/newsletter/winter06/nlw0604.html>

<a href="<http://csanet.org/newsletter/winter06/nlw0605.html>">AutoCAD (r) Cross-Referenced Files and Blocks -- Often Not for Scholars These features should be used with great care. (Harrison Eiteljorg, II) <http://csanet.org/newsletter/winter06/nlw0604.html>

<a href="<http://csanet.org/newsletter/winter06/nlw0606.html>">Thank You, Autodesk and Lisa Crouse Thank you for the new version of AutoCAD(r). <http://csanet.org/newsletter/winter06/nlw0606.html>

ΝΕΕΣ ΕΚΔΟΣΕΙΣ – NEW PUBLICATIONS

ΑΡΧΑΙΟΛΟΓΙΑ ΚΑΙ ΓΕΩΦΥΣΙΚΗ ΕΞΕΡΕΥΝΩΝΤΑΣ ΤΟΝ ΑΡΧΑΙΟΛΟΓΙΚΟ ΧΩΡΟ ΤΗΣ ΒΕΡΓΙΝΑΣ, 1984-2004

Γρηγόρης Ν. Τσόκας¹, καθηγητής, Γεώργιος Βαργεμέζης¹, Λέκτορας, Παναγιώτης Τσούρολος¹, Επ. Καθηγητής, Στέλλα Δρούγου², καθηγήτρια
Χρυσούλα Σαατσόγλου-Παλιαδέλη², καθηγήτρια

¹Εργαστήριο Εφαρμοσμένης Γεωφυσικής, Τμήμα Γεωλογίας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 54124 Θεσσαλονίκη.

²Τομέας Αρχαιολογίας και Ιστορίας της Τέχνης, Τμήμα Αρχαιολογίας και Ιστορίας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 54124 Θεσσαλονίκη.

Θεσσαλονίκη 2005

ΑΡΧΑΙΟΛΟΓΙΑ ΚΑΙ ΑΡΧΑΙΟΜΕΤΡΙΑ



Το βιβλίο πραγματεύεται την εφαρμογή γεωφυσικών μεθόδων εξερεύνησης του υπεδάφους με σκοπό τον εντοπισμό και τη χαρτογράφηση θαμμένων αρχαιοτήτων στη Βεργίνα. Τα αποτελέσματα αυτών των εφαρμογών, συνδυασμένα με τα ανασκαφικά πορίσματα κατατίθενται στις σελίδες του βιβλίου, ως μια πρώτη, αλλά σφαιρική

απόπειρα να καταδειχθούν οι δυνατότητες που προκύπτουν από τη συνεργασία της Αρχαιολογίας με την Αρχαιομετρία και τις μεθόδους της.

Οι αργοί ρυθμοί που επιβάλλει η ανασκαφική εργασία, αλλά και η ταυτόχρονη ανάγκη να διευκρινιστούν με μη καταστροφικές μεθόδους ζητήματα που αφορούν στην χωροταξική οργάνωση του αρχαίου οικισμού και την πολεοδομική του εξέλιξη, υπήρξαν οι κύριοι λόγοι για την αναζήτηση νέων τρόπων έρευνας πεδίου. Θεωρήθηκε, λοιπόν, αναγκαία η αξιοποίηση των νέων δυνατοτήτων που προσφέρει προς την κατεύθυνση αυτή, η εξερεύνηση τμημάτων του αρχαιολογικού χώρου με γεωφυσικές μεθόδους.

Παρ' ότι σε πολλούς αρχαιολογικούς χώρους στην Ελλάδα έχουν γίνει εκτεταμένες έρευνες με γεωφυσικές μεθόδους, δεν έχει παρουσιαστεί στη βιβλιογραφία κάποιο πόνημα που να αναφέρεται σε συστηματική μακροχρόνια έρευνα σε συγκεκριμένη αρχαιολογική θέση. Εξ' άλλου, σπάνια είναι τα ολοκληρωμένα παραδείγματα και στη διεθνή βιβλιογραφία. Ακόμη όμως σπανιότερη είναι η καταγραφή της κοινής εμπειρίας των εμπλεκόμενων επιστημόνων, Αρχαιολόγων και Γεωφυσικών ή Αρχαιομετρών, σε ένα ολοκληρωμένο παράδειγμα.

Περιγράφονται η μέθοδος της γεωηλεκτρικής χαρτογράφησης, της μαγνητικής χαρτογράφησης, της γεωηλεκτρικής τομογραφίας και του ραντάρ υπεδάφους, οι οποίες χρησιμοποιήθηκαν για την εξερεύνηση της Βεργίνας. Γίνεται περιληπτική αναφορά στον τρόπο συλλογής, επεξεργασίας και ερμηνείας των δεδομένων, χωριστά για κάθε μέθοδο διασκόπησης. Τέλος, παρουσιάζονται επίσης τα αποτελέσματα της έρευνας όπως προέκυψαν για κάθε μια μέθοδο.

COMPLETED PHD DISSERTATION,
"ETUDE PHONÉTIQUE ET GRAPHIQUE
DU [J] (JOD) EN GREC MYCÉNIEN"

G. Hellemans, "Etude phonétique et graphique du [j] (jod) en grec mycénien" (PhD, Katholieke Universiteit Leuven (Belgium)). Supervisor: Prof. L. Isebaert. The full text can be found, together with an English abstract, at <http://hdl.handle.net/1979/33> The text is in French (except for the Preface, which is written in Dutch).

Geert Hellemans

PÓRTICO LIBRERÍAS

003 Balme, J. / A. Paterson, eds.: *Archaeology in Practice. A Student Guide to Archaeological Analyses*

2006 – xxv + 438 pp., fig. € 31,60

INDICE: A. David: Finding sites — L. J. Zimmerman: Consulting stakeholders — J. McDonald: Rock-art — J. Balme / A. Paterson: Stratigraphy — S. Holdaway: Absolute dating — C. Clarkson / S. O'Connor: An introduction to stone artifact analysis — R. Fullagar: Residues and usewear — L. Ellis: Ceramics — T. O'Connor / J. Barrett: Animal bones — W. Beck: Plant remains — S. Bowdler: Mollusks and other shells — G. Huckleberry: Sediments — S. Lawrence: Artifacts of the modern world — B. Little: Historical sources — P. White: Producing the record.

006 Bar-Yosef Mayer, D. E., ed.: *Archaeomalacology. Molluscs in Former Environments of Human Behaviour*

2005 – 192 pp., fig., fot., tabl. € 62,40

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007 Biswas, A. K., ed.: *Science in Archaeology and Archaeo-Materials*

2005 – 382 pp., fig., lám. col., map. € 97,50

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009 Campana, S. / M. Forte, eds.: *Remote Sensing in Archaeology*. XI ciclo di lezioni sulla ricerca applicata in archeologia, Certosa di Pontignano (Siena), 6-11 dicembre 1999 2001 – 373 pp., fig., gráf., lám. col. € 43,16

024 Thery-Parisot, I.: *Économie des combustibles au paléolithique. Expérimentation, taphonomie, anthracologie* 2001 – 195 pp., 71 fig. € 24,00

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025 Thiebault, S., ed.: *Charcoal Analysis. Methodological Approaches, Palaeoecological Results and Wood Uses*. Proceedings of the Second International Meeting of Anthracology, Paris, September 2000 2002 – x + 284 pp., fig., gráf. € 54,75

026 Tripathi, A., ed.: *Remote Sensing and Archaeology* 2005 – 357 pp., 55 lám. col., map. € 87,50

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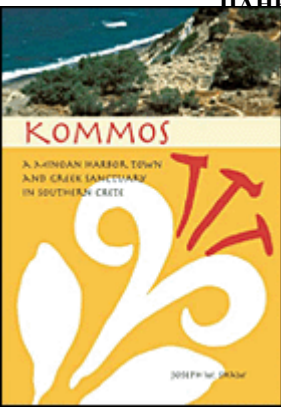
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028 Vernet, J. L., ed.: *Guide d'identification des charbons de bois préhistoriques et récents. Sud-ouest de l'Europe: France, Péninsule Ibérique et Iles Canaries*
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THIRTY YEARS AT KOMMOS

February 15, 2006

by Mark Rose

A new book looks back on decades of work at a site on the south coast of Crete.

Joseph W. Shaw's new volume, *Kommos: A Minoan Harbor Town and Greek Sanctuary in Southern Crete*, defies simple categorization. It is partly a guide to a sprawling and complex site, with a discussion of its regional context. But it is also an engaging personal account of three decades of excavation to which is added a series of short interpretive summaries of some of the site's main features. Take these elements and package them in a relatively short, heavily illustrated book geared to a nonspecialist audience and you have *Kommos: A Minoan Harbor Town and Greek Sanctuary* (\$24.95 paperback, \$45.00 hardcover; American School of Classical Studies at Athens, 2006). Is the book a blueprint for future publications or a chimera? To answer that question, one has to look at the individual parts of the book and then consider the whole.

Kommos, situated on the coast where the Mesara plain of southern Crete meets the Libyan Sea, was inhabited during the Middle Minoan through the Late Minoan periods (around 2000 until 1200 B.C.) and, after a brief abandonment, down to the Roman era when it was deserted once more (A.D. 150). Work, directed by Joseph and Maria Shaw, began in 1976 and uncovered layers of ruins in three large excavation areas (the hilltop, central hillside, and southern areas). The Minoan levels yielded both houses and monumental buildings (possibly including a structure for storing ships during winter when sailing was hazardous). The later levels yielded an early shrine with Phoenician connections and a later, small temple and associate altars and other structures. (My own link with Kommos is through the study of fish remains from both the Minoan and later deposits.)

Given the complex nature of the site, the author and editor of *Kommos: A Minoan Harbor Town and Greek Sanctuary* were forced to begin the book with what amounts to a guide to the site. Although it is well illustrated and the text is straightforward, this part of the book may be a bit daunting by way of an orientation to Kommos, with details threatening to overwhelm the big picture. The writing opens up at the end of the section when Shaw addresses the relationship of the site to the sea, from resources to trade. This continues in the second part of the book, which looks at Kommos in relation to other sites in the Mesara. It also, unlike the first, guide-like section of the book, becomes very personal, especially in describing how the dig began and the excavators' sympathetic and respectful relations with locals in the town of Pitsidia, where they established their home base.

This personal touch comes to the fore in the third part of *Kommos: A Minoan Harbor Town and Greek Sanctuary*, which is the history of the excavation and discoveries. It is great reading, as two samples, from the beginning of the dig and from excavation of the temple, show:

Another, not so welcome, surprise came as we began to clear sand--bits of rusted metal and the calcined tops of ancient walls appeared near the edge of the western cliff above the sea, where after World War II Allied soldiers had gathered anti-tank mines laid to prevent amphibious landings and had detonated them.... Most of the mines had been gathered up but we still found pieces of them in the deep sand as we progressed to the south. One day as my foreman and great friend George Beladakis and I sat watching the front loader do its work, an entire mine a foot and a half in diameter appeared from under the tires of the front loader which had perhaps gone over it as it trundled down the hill with its scoop filled with sand.

Then, much to our surprise, we found the tops of three vertical slabs.... As cleaning went on, a workman passed up a curious object--a face! A faience face! More clearing followed, and a six-inch-long faience statuette was brought up from between the two vertical slabs found earlier. We knew once the two faience fragments fitted together that we had discovered an Egyptianizing, if not actual Egyptian, figurine--Sekhmet, the goddess of war, as it turned out. Then one of our best workmen, Iannis Fasoulakis, announced that he had found a "hook." Again we peered into the small sounding and there was indeed a hooked metal object of some kind, wedged between two pillars. It was a bronze horse figurine! Chaos reigned. Workmen came running down the hillside to see; staff circled around.

This exemplary popular history of the excavation is followed by a collection of summaries of major finds at Kommos and how they fit in the larger world. The topics include Minoan palaces, the possible ship sheds, domestic economy, identification of the gods to which the temple was dedicated, a nearby temple of Artemis, the "Phoenician" shrine, and more. In these brief interpretations, Shaw puts Kommos in context but maintains the personal writing style of the preceding section of the book:

We stopped in the shade of the church to have a simple lunch, chiefly cheese and bread and olives, plus some water. I had also brought a can of Trata brand sardines, with a small very hot pepper thrown in--a most delicious tastemaker. After lunch we scouted around the the area.... I saw a few blocks, then what looked like a particularly finely carved one. And on it, to our excitement, there were letters. We turned it over to look at it more carefully and there, before us, was the solution to our puzzle, a prayer to Artemis....

Excavations of major sites like Kommos are usually published in a series of large final reports, often monographs or monograph-length chapters assembled in telephone-book sized volumes. And such volumes have been produced for Kommos, recording the finds and making the evidence from the site available to specialists. *Kommos: A Minoan Harbor Town and Greek Sanctuary* is an attempt to reach a popular audience. Some scholars are able to put pen to paper with great effect, writing classic works, such as *The Bog People* by P.V. Glob and *In Small Things Forgotten* by James Deetz. This book, focused on a single site, doesn't fall into that kind of popular synthesis but it has something of the feel of those works, clear writing combining both authority and

enthusiasm for the subject. To this it adds, once the site guide is dispensed with, a personal touch that makes it enjoyable to read. Too few excavators attempt this kind of work and Shaw is to be congratulated for his effort.

Mark Rose is executive and online editor of ARCHAEOLOGY.

♦ Joseph Shaw and his wife Maria C. Shaw, are the 2006 recipients of the [Gold Medal Award for Distinguished Archaeological Achievement](#), presented by the Archaeological Institute of America.

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www.archaeology.org/online/reviews/kommos/

ΕΙΔΗΣΕΙΣ - NEWS RELEASE

ΑΥΤΟΜΑΤΟΣ ΑΡΧΑΙΟΛΟΓΟΣ, ΥΠΟΒΡΥΧΙΟ ΡΟΜΠΟΤ ΧΑΡΤΟΓΡΑΦΕΙ ΑΡΧΑΙΟ ΝΑΥΑΓΙΟ ΕΞΩ ΑΠΟ ΤΗ ΧΙΟ Ουάσινγκτον



©Chios 2005 Shipwreck
Survey

Κίτρινοι σπόγγοι
αναπτύσσονται εδώ και αιώνες
ανάμεσα στους αμφορείς που
ποτέ δεν παραδόθηκαν

Σχεδόν 24 αιώνες μετά τη βύθισή του ανάμεσα στη Χίο και τις Οινούσες, ένα αρχαίο ελληνικό εμπορικό σκάφος εξετάζεται από διεθνή ομάδα αρχαιολόγων με τη βοήθεια ρομποτικού υποβρύχιου οχήματος. Το ρομπότ SeaBED (πυθμένας) ολοκλήρωσε σε λίγες ώρες εργασίες που κανονικά θα χρειάζονταν προσπάθειες πολλών ετών και αποκαλύπτει στοιχεία για τις εμπορικές συναλλαγές του 4ου π.Χ. αιώνα.

Το ξύλινο πλοίο, που ανακαλύφθηκε το 2004 από Έλληνες ερευνητές στη διάρκεια χαρτογράφησης με σόναρ, βυθίστηκε σε νερά βάθους 60 μέτρων, μεταφέροντας περίπου 400 αμφορείς με κρασί και ελαιόλαδο -περισσότερους από κάθε άλλο γνωστό ναυάγιο.

Το ναυάγιο χαρτογραφείται τώρα από ομάδα του αμερικανικού Ωκεανογραφικού Ινστιτούτου του Γουντς Χολ (WHOI), του Ινστιτούτου Τεχνολογίας της Μασαχουσέτης, του ελληνικού υπουργείου Πολιτισμού και του Ελληνικού Κέντρου Θαλασσίων Ερευνών.

Η ομάδα χρησιμοποιεί το ρομπότ που αναπτύχθηκε στο WHOI για φωτομετρική χαρτογράφηση υψηλής ακρίβειας. Το Ινστιτούτο έχει μεταξύ άλλων κατασκευάσει το υποβρύχιο ARGO που ανακάλυψε τα ναυάγια του Τιτανικού και του Μπίσμαρκ.

Το SeaBED καταδύθηκε τέσσερις φορές, για τρεις ώρες κάθε φορά, και σάρωσε το ναυάγιο με σόναρ πολλαπλής δέσμης, περνώντας από πάνω με ακριβώς καθορισμένες κινήσεις. Το ρομπότ μετέδωσε έτσι 7.650 φωτογραφίες.

Η χαρτογράφηση, εκτιμούν οι ερευνητές, θα είχε διαρκέσει χρόνια αν πραγματοποιείτο με τη συμβατική μέθοδο, κατά την οποία οι δύτες σχεδιάζουν το πλάνο του ναυαγίου χρησιμοποιώντας μεζούρες και αδιάβροχα σημειωματάρια.

«Χρησιμοποιώντας αυτή την τεχνολογία, οι υποβρύχιοι αρχαιολόγοι απαλλάσσονται από εργασίες ρουτίνας για μέτρηση και σχεδίαση και μπορούν να αφιερωθούν σε όσα οι άνθρωποι κάνουν καλύτερα από τα ρομπότ: την ανασκαφή και την ερμηνεία των δεδομένων» σχολιάζει ο Δρ Σάινγκ, μέλος της ερευνητικής ομάδας.

Στην κλασική αρχαιότητα η Χίος ήταν γνωστή για το περίφημο κρασί της. Κυριότερος πελάτης ήταν η Αθήνα, ωστόσο το πολύτιμο κρασί έφτανε μέχρι την Κύπρο και την Κριμαία. Παρά τον Πελοποννησιακό Πόλεμο και την παρακμή του αθηναϊκού κράτους, η Χίος παρέμενε δραστήρια στις εμπορικές συναλλαγές τον 4ο π.Χ αιώνα.

Επικεφαλής της επιστημονικής και τεχνικής ελληνικής ομάδας είναι ο γεωλόγος Δημήτρης Σακελλαρίου του Ελληνικού Κέντρου Θαλασσίων Ερευνών, ενώ επικεφαλής της ελληνικής αρχαιολογικής ομάδας είναι η Κατερίνα Δελαπόρτα, διευθύντρια της Εφορίας Ενόλιων Αρχαιοτήτων.

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<http://www.in.gr/news/article.asp?lngEntityID=681453&lngDtrID=253>

DEEP-SEA ROBOT PHOTOGRAPHS **ANCIENT GREEK SHIPWRECK,** **DEBORAH HALBER, NEWS OFFICE** **CORRESPONDENT, FEBRUARY 2, 2006**

Sometime in the fourth century B.C., a Greek merchant ship sank off Chios and the Oinoussai islands in the eastern Aegean Sea. The wooden vessel may have succumbed to a storm or a fire, or maybe rough weather caused the cargo of 400 ceramic jars filled with wine and olive oil to shift without warning. The ship went down in 60 meters (about 200 feet) of water, where it remained unnoticed for centuries.

The classical-era ship might never have divulged to archaeologists its clues to ancient Greek culture, except for a research team from MIT, the Woods Hole Oceanographic Institute (WHOI), the Greek Ministry of Culture and the Hellenic Centre for Marine Research (HCMR). They used a novel autonomous underwater vehicle (AUV) to make a high-precision photometric survey of the site last July. Using techniques perfected by MIT and WHOI researchers over the past eight years, the robot accomplished in two days what would have taken divers years of effort.

This week the researchers are releasing a few of the photographs showing detailed images of some of the remnants of the ship's cargo lying on the ocean floor, where it's been since about 350 B.C. The researchers took more than 7,000 images, which will eventually be combined into one mosaic of the entire wreck site.

The project marks the beginning of a long-term research project of the MIT/WHOI team collaborating with the Greek Ministry of Culture and HCMR.

The Deep Submergence Laboratory of WHOI has for years been a leader in building submersible robotic vehicles for a variety of underwater environments, including the ARGO vehicle that found the Titanic and the JASON II vehicle that explores the sea floor today. The robotic vehicle used at Chios is an AUV called SeaBed. WHOI scientist Hanumant Singh and his research team designed and built the AUV specifically for imaging the sea floor.

At Chios, Singh and his engineering team programmed SeaBed to run slow, precise tracklines over the shipwreck site, which had been located by a sonar scan performed by the Greek Ministry of Culture in 2004.

The AUV scanned the scattered cargo and created a topographical sonar map while collecting thousands of high-resolution digital images, without ever physically touching the shipwreck. In all, 7,650 images were collected on four dives. WHOI archaeologists and engineers are assembling those images into mosaics that depict the minute features of the shipwreck with unmatched clarity and detail.

The Chios wreck is playing a critical role in exploring how advanced technology can dramatically change the field of underwater archaeology. The long-term project is the brainchild of expedition co-leaders Brendan Foley, a researcher at WHOI who is a 2003 Ph.D. graduate of MIT's Program in Science, Technology and Society (STS), and David Mindell, the Dibner Professor of the History of Engineering and Manufacturing and professor of engineering systems at MIT. Mindell develops high-precision sonar navigation systems that control undersea robots in very deep water to create the world's most accurate three-dimensional maps of the ocean floor. Mindell and Foley founded

MIT's DeepArch research group, which has been laying the intellectual, methodological and technical foundations for archaeology in the deep sea for the past eight years.

Robotic technology is the only way to reach deep shipwrecks like the one at Chios, but the systems can also be applied to shallower sites.

"By using this technology, diving archaeologists will be freed from mundane measuring and sketching tasks, and instead can concentrate on the things people do better than robots: excavation and data interpretation," said Singh, an engineering and imaging scientist. "With repeated performances, we'll be able to survey shipwrecks faster and with greater accuracy than ever before." These new techniques produce results very quickly.

As soon as SeaBed surfaced with the first images from the Chios wreck, taken July 7 and 8, 2005, Foley and the Greek archaeologists began interpreting the data.

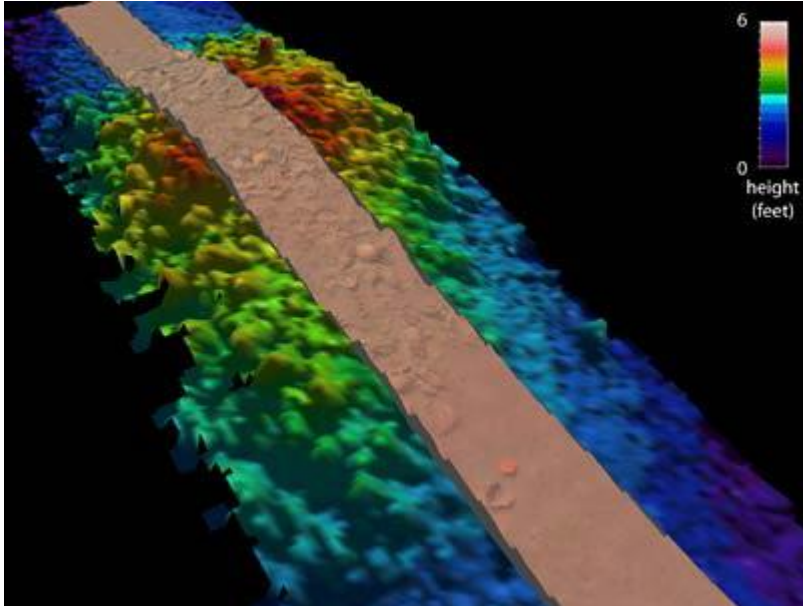
Much of the true value in cargo ships such as the Chios wreck is the information they provide about the networks that existed among the ancient Greeks and their trading partners. The wreck is "like a buried UPS truck. It provides a wealth of information that helps us figure out networks based on the contents of the truck," said Mindell.

Foley, Mindell, Singh and their collaborators are using the latest technology to create "ways of learning about the past that you couldn't achieve any other way. We're not looking for footnotes any more. We're looking to write new chapters," Foley said. The new research project will last 10 years or more, focusing on uncovering evidence of ancient trade in the Mediterranean, particularly of the Minoan and Mycenaean cultures and their trading partners in the Bronze Age (2500-1200 B.C.).

"This was a home run for us," Mindell said. "There's a lot riding on it." The team will be back in Greece to explore more wreck sites next season.

"This is real research -- slow, serious, scientifically rigorous and painstaking work," Foley said. "It will go in strange directions, produce ambiguous results along the way, and raise a lot of new questions, but we're convinced that in 10 to 15 years, we will change history."

In addition to Foley, Mindell and Singh, the American team for the Chios expedition included Professor Brian Bingham from the Franklin W. Olin College of Engineering; Richard Camilli, Ryan Eustice and Chris Roman from WHOI; and Professor David C. Switzer from Plymouth State University. The Greek science and technical team was led by HCMR geologist Dimitris Sakellariou. The Greek archaeology team was headed by Katerina Delaporta, director of the Ministry of Culture's Ephorate of Underwater Antiquities.



This image shows a sample of the data collected by the SeaBed autonomous underwater vehicle as it swam over the Chios shipwreck in July 2005. The 3-D color mesh represents a topographic map of the sea floor, created using data collected by multibeam sonar. The brown strip shows the area captured in digital images, which were used to create the photomosaic of the

wreck. Image © / Chios 2005 Shipwreck Survey -- WHOI, Hellenic Ministry of Culture: Ephorate of Underwater Antiquities, Hellenic Center for Marine Research



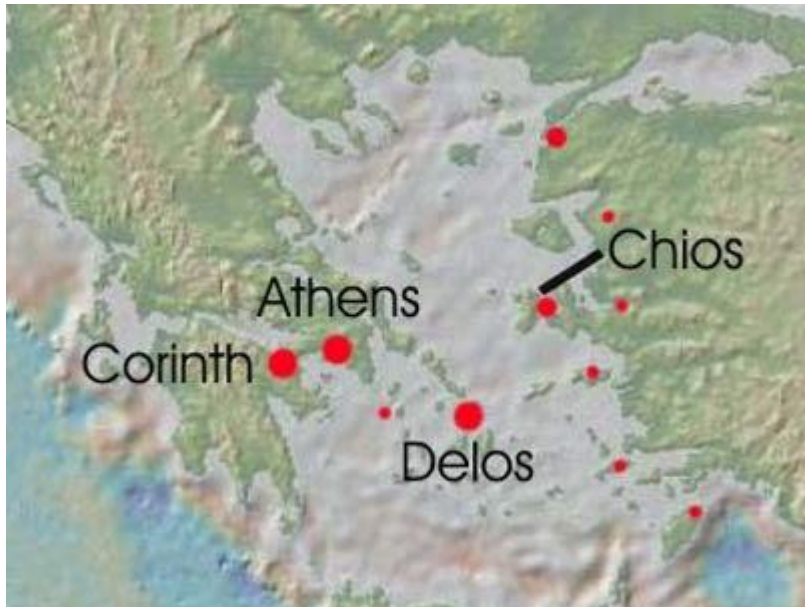
This photomosaic strip of a section of the Chios shipwreck site is composed of 14 individual images. The autonomous underwater vehicle collected this data in just 42 seconds. Most of the wreck's visible remains consist of ceramic storage jars (called amphoras) made on the island of Chios. Archaeologists surmise that wine composed the bulk cargo carried aboard the wrecked vessel. Small, fish, starfish and sponges can also be seen. Image © / Chios 2005 Shipwreck Survey -- WHOI, Hellenic Ministry of Culture: Ephorate of Underwater Antiquities, Hellenic Center for Marine Research



Detail from photomosaic strip showing ancient ceramic storage jars at the Chios shipwreck site. Image © / Chios 2005 Shipwreck Survey -- WHOI, Hellenic Ministry of Culture: Ephorate of Underwater Antiquities, Hellenic Center for Marine Research



Researchers recover the SeaBed autonomous underwater vehicle after a dive to the shipwreck at Chios last July. They are, from left, Kostas Katsaros and Aggelos Malios from the Hellenic Centre for Marine Research and Chris Roman from the Woods Hole Oceanographic Institute. Photo / Matt Grund



Using an autonomous underwater vehicle, MIT researchers last July took images of amphoras in the wreck of a ship found under about 200 feet of water near the island of Chios, just off the coast of Greece. Red dots on the map show locations where archaeologists have previously found such amphoras, indicating possible routes for the ship that sank. Image / Chios

2005 Shipwreck Survey--WHOI, Hellenic Ministry of Culture: Ephorate of Underwater Antiquities, Hellenic Center for Marine Research

Please visit the site: <http://web.mit.edu/newsoffice/2006/archaeology.html>

ΕΝΑΛΙΟΣ ΠΛΟΥΤΟΣ, ΔΥΟ ΑΡΧΑΙΑ ΝΑΥΑΓΙΑ ΕΝΤΟΠΙΣΤΗΚΑΝ ΑΝΟΙΚΤΑ ΤΗΣ ΣΑΜΟΥ ΚΑΙ ΤΗΣ ΧΙΟΥ, ΥΠΠΟ, ΤΟ ΝΑΥΑΓΙΟ ΤΗΣ ΣΑΜΙΟΠΟΥΛΑΣ, ΑΘΗΝΑ



Περισσότερα από 20 αρχαία ναυάγια διαφόρων εποχών έχουν εντοπίσει οι ερευνητές στις περιοχές Καλύμνου, Λέρου, Λειψών, Καστελόριζου, Αστυπάλαιας, Νισύρου, και Χαλκιδικής, στο πλαίσιο του κοινού προγράμματος της Εφορείας Εναλίων Αρχαιοτήτων (ΕΕΑ) με το Ελληνικό Εθνικό Κέντρο Θαλασσιών Ερευνών (ΕΛΚΕΘΕ), που βρίσκεται σε εξέλιξη από το 2000.

Πρόσφατα εντοπίστηκαν δύο

αρχαία ναυάγια με εμπορικούς αμφορείς: το πρώτο στη Σαμιοπούλα, ανοικτά της Σάμου και το δεύτερο στο στενό μεταξύ Χίου και Οινουσσών.

Κατά την περίοδο από 31 Μαρτίου μέχρι 6 Απριλίου 2004 οι δύο φορείς πραγματοποίησαν έρευνα με το ωκεανογραφικό σκάφος «Αιγαίο» στις θαλάσσιες περιοχές Σάμου και Χίου. Το σκάφος είναι εξοπλισμένο με σύγχρονη τεχνολογία (Ηχοβολιστικό Πλευρικής Σάρωσης-Side Scan Sonar, Τηλεχειριζόμενο Υποβρύχιο Όχημα-Remotely Operated Vehicle και το βαθυσκάφος ΘΕΤΙΣ), η οποία χρησιμοποιήθηκε για τους σκοπούς της υποβρύχιας αρχαιολογικής έρευνας.

Η συνεργασία των επιστημονικών ομάδων των δύο φορέων οργανώθηκε στη βάση της αξιολόγησης υφιστάμενων πληροφοριών, καθώς και της συνεκτίμησης γεωμορφολογικών, ναυτικών και ιστορικο-αρχαιολογικών παραγόντων.

Ερευνήθηκαν τρεις περιοχές στα νότια και ανατολικά της Σάμου, καθώς και τέσσερις περιοχές νότια των Οινουσσών, στο στενό Οινουσσών - Χίου και στα ανατολικά της Χίου. Στον περιορισμένο χρόνο που διήρκεσε η έρευνα, κάτω μάλιστα από δυσμενείς καιρικές συνθήκες, εντοπίστηκαν δύο αρχαία ναυάγια με εμπορικούς αμφορείς.

Το πρώτο εντοπίστηκε στην περιοχή της Σάμου σε βάθος από περίπου 30 έως 55 μέτρα. Βρίσκεται σε αμμώδη επικλινή πυθμένα, διασκορπισμένο γύρω από δύο κύριες συγκεντρώσεις. Το φορτίο αποτελείται από ροδιακούς και κώους αμφορείς, ενώ έχουν εντοπιστεί και πινάκια. Σε μια πρώτη αξιολόγηση το φορτίο μπορεί να χρονολογηθεί στους Ελληνιστικούς-Ρωμαϊκούς χρόνους.

Το δεύτερο ναυάγιο εντοπίστηκε στο στενό Χίου και Οινουσσών σε βάθος 65μ. Πρόκειται για μια κύρια συγκέντρωση χιακών και σαμιακών αμφορέων. Ανάμεσα στο φορτίο εντοπίστηκαν επίσης αγγεία καθημερινής χρήσης. Το φορτίο μπορεί να χρονολογηθεί αρχικά στο τέλος της κλασικής περιόδου.

Από τα δύο ναύαγια ανελκύστηκαν δείγματα των διαφόρων τύπων των αμφορέων με σκοπό την περαιτέρω αξιολόγηση και τεκμηρίωση τους.

Please visit the site: <http://www.in.gr/news/article.asp?lngEntityID=561434>

GREEK HIKER FINDS 6,500-YEAR-OLD PENDANT

By COSTAS KANTOURIS, Associated Press Writer

An undated handout picture showing a 6,500-year-old gold jewel.

<http://www.comcast.net/data/news/photoshow/html/news/327708.html>

THESSALONIKI, Greece - A Greek hiker found a 6,500-year-old gold pendant in a field and handed it over to authorities, an archaeologist said Thursday.

The flat, roughly ring-shaped prehistoric pendant probably had religious significance and would have been worn on a necklace by a prominent member of society.

Only three such gold artifacts have been discovered during organized digs, archaeologist Georgia Karamitrou-Mendesidi, head of the Greek archaeological service in the northern region where the discovery was made, told The Associated Press.

"It belongs to the Neolithic period, about which we know very little regarding the use of metals, particularly gold," she said. "The fact that it is made of gold indicates that these people were highly advanced, producing significant works of art."

She said the pendant, measuring rough 1 1/2 by 1 1/2 inches, was picked up last year near the town of Ptolemaida, about 90 miles southwest of the northern city of Thessaloniki. Karamitrou-Mendesidi is to present the artifact at a three-day archaeological conference that opened Thursday in Thessaloniki.

Greek police confiscated a hoard of 33 similar pieces of hammered gold jewelry from smugglers in 1997.

The woman who found the pendant did not want a reward and wished to remain anonymous, Karamitrou-Mendesidi said.

Similar finds have been excavated in modern Turkey and the Balkans, particularly in Bulgaria.

Around 4500 B.C., when the pendant was made, Greece's early Neolithic farming settlements were consolidating into structured trading centers with a developed knowledge of metalworking.

In November, archaeologists announced the discovery of two prehistoric farming settlements dating back as early as 6000 B.C. in the Ptolemaida region.

The settlement digs uncovered burial sites, clay and stone figurines of humans and animals, pottery and stone tools.

Another 25 prehistoric settlements have been found in the area.

* printable version

<<http://www.comcast.net/includes/article/print.jsp?fn=/data/news/html//2006/02/16/327708.html>>

ΔΕΛΤΙΟ ΤΥΠΟΥ - ΗΛΕΚΤΡΙΚΕΣ ΤΟΜΟΓΡΑΦΙΕΣ ΕΠΙ ΤΟΥ ΤΕΙΧΟΥΣ ΤΗΣ ΑΚΡΟΠΟΛΕΩΣ ΤΩΝ ΑΘΗΝΩΝ

Οι μέθοδοι γεωφυσικής διασκόπησης εφαρμόζονται στην εξερεύνηση αρχαιολογικών χώρων σε παγκόσμια κλίμακα και αναφέρονται σ' όλα τα βιβλία εισαγωγής στην αρχαιολογική επιστήμη. Στηρίζονται στο γεγονός ότι οι αρχαιότητες αποτελούν διαταράξεις στην ομοιογένεια των ανωτέρων στρωμάτων της Γης και επομένως προκαλούν ανωμαλίες σε φυσικά ή τεχνητά πεδία. Οι ανωμαλίες αυτές καταγράφονται με τη βοήθεια κατάλληλων οργάνων, επεξεργάζονται βάσει διεθνώς παραδεκτών μεθόδων και τελικά παρουσιάζεται μια χαρτογράφηση των υπεδάφινων αρχιτεκτονικών λειψάνων. Επιπλέον οι γεωφυσικές μέθοδοι εφαρμόζονται στον εντοπισμό και χαρτογράφηση υπόγειων ανθρωπογενών και φυσικών εγκοίλων, καθώς επίσης και για την εύρεση γενικά της υπεδάφιας δομής νοούμενη αυτή είτε ως γεωλογική στρωματογραφία ή ως τεκτονική σύνθεση.

Ιδιαίτερη εφαρμογή έχουν οι γεωφυσικές έρευνες στη διερεύνηση τόσο του δαπέδου όσο και των τοίχων μνημείων. Οι έρευνες αυτές έχουν πολλαπλή σκοπιμότητα, μπορεί δηλαδή να διερευνάται το έδαφος έδρασης των μνημείων, η παρουσία προγενέστερων κατασκευών στο χώρο ανέγερσης του μνημείου, η πιθανότητα ύπαρξης κρυπτών στους τοίχους και το δάπεδο και τέλος η ύπαρξη ρωγμών ή αστοχιών των δομικών στοιχείων.

Μελή του Εργαστηρίου Εφαρμοσμένης Γεωφυσικής του Α.Π.Θ., με επικεφαλή τον καθηγητή Γρηγόρη Τσόκα, είχαν την ευθύνη σειράς εξερευνήσεων τόσο στην Ελλάδα όσο και το εξωτερικό. Μεταξύ άλλων, το εν λόγω εργαστήριο έχει πραγματοποιήσει έρευνες στην εκκλησία της Καπνικαρέας στην Αθήνα, στην Παναγία Χαλκέων στη Θεσσαλονίκη, στο κάστρο της Λευκάδας, στο Πρωτάτο και τη Μονή Δοχειαρίου στο Άγιο Όρος, κλπ.

Στην Ακρόπολη των Αθηνών θα υλοποιηθούν Τομογραφίες επί του τείχους κατά την κατακόρυφη και την οριζόντια έννοια. Σκοπός είναι να μελετηθεί η κατάσταση του τείχους αλλά και να εντοπιστούν ανθρωπογενείς δομές στις επιχωματώσεις εσωτερικά του τείχους. Έχουν προηγηθεί δοκιμές που πιστοποίησαν την εφαρμοσιμότητα της μεθόδου.

Η διεξαγωγή τομογραφιών επί του τείχους με σκοπό την ενδοσκόπησή, συνιστούσε ένα δύσκολο μεθοδολογικά και τεχνικά πρόβλημα. Το πρόβλημα δεν είναι συμβατικό και συνιστά καινοτόμο εφαρμογή της μεθόδου πράγμα που απαίτησε την προσαρμογή του μαθηματικού αλγορίθμου της ηλεκτρικής τομογραφίας και την κατασκευή νέου λογισμικού. Επιπλέον, έπρεπε να λυθούν διάφορα τεχνικά προβλήματα όπως η τοποθέτηση ηλεκτροδίων στο τείχος, ο μη καταστροφικός τρόπος αποκατάστασης ηλεκτρικής επαφής κ.α. Μέρος των προβλημάτων θα λυθεί με αναρρίχηση που θα γίνει από μέλη της ερευνητικής ομάδας ένας μάλιστα εκ των οποίων (Μιχάλης Στύλλας) συμμετείχε στην ελληνική αποστολή που κατέκτησε την κορυφή των Ιμαλαίων.

Η έρευνα θα πραγματοποιηθεί στο διάστημα 1-6 Μαρτίου 2006 από επιστήμονες του ΑΠΘ (Εργαστήριο Εφαρμοσμένης Γεωφυσικής) με επικεφαλή τον καθηγητή Γρηγόρη Τσόκα. Αναμένεται να δώσει νέα στοιχεία για την κατάσταση των τειχών, την κατείδυση των υδάτων και τις δομές πάνω στις οποίες θεμελιώθηκαν οι κατασκευές του 5^{ου} π.Χ. αιώνα.

Γρηγόρης Ν. Τσόκας
