



Association for the Study  
of Marble and Other  
Stones in Antiquity

# Asmosia Newsletter

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## ASMOSIA Officers 1995 - 98

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### *Newsletter Editors*

*Archaeometry* - Norman Herz  
*Archaeology & Art History* - Susan Kane

## President's Report

Greetings and Best Wishes for the 1997 New Year! My Co-Editor and I would like to propose a new schedule for the AMOSIA newsletter, to start in 1997. We will publish two issues a year—in March and October. Your submissions should be sent to arrive no later than the 15th of the month prior to the publication month. We hope that by standardising the publication dates, you will be encouraged to plan ahead and to send us short articles, news of your research, citations of pertinent publications, etc. This newsletter is only as good as the news we can find, solicit, beg, borrow, or steal! So please keep sending us information to include.

Membership renewal forms will be included in the upcoming March issue, and a list of all ASMOSIA members will be sent out in the October one. If you know of any prospective members, have them contact me to receive the application form.

Other plans for 1997 include the revamping of our still in prototype ASMOSIA website. So please send us suggestions on what you would like to see included on the site, as well as the URL links to your own laboratory or institution homepages.

## Co-Editor's Report

Happy New Year to all of you! Since I know that many of you are concerned about Keith Matthews, I have asked Mike Hughes, a colleague of Keith Matthews at the British Museum, to send news of his recovery. Here is his latest report on

Keith's condition: Keith has been moved to a rehabilitation centre for stroke victims in Surrey and is making progress towards recovery. He is regaining his ability to speak and to read, in addition to making progress on being able to use his right arm and leg. He is extremely cheerful (that is Keith!) and determined to succeed in his rehabilitation work. Mike says that the cards and notes his friends and colleagues continue to send are helping him in his recovery. I know that you all join me in sending Keith and Cathy our very best wishes for the 1997 New Year.

## New Publications

### Books

Gary Lock & Zoran Stani (eds.), 1995, *Archaeology and Geographical Information Systems*. Taylor & Francis, 392 pp. \$99.95. A summary of the use of GIS in European archaeology as of 1993, based on a conference held in Ravello, Italy.

Enrico Castelnuovo, ed., 1992, *Niveo de Marmore: l'uso artistico del marmo di Carrara dall'XI al XV secolo*, Genova, Ed. Colombo, 370 pp., \$65.00. Exhibition catalogue with 15 pp. color plates and hundreds of b/w illustrations.

### Articles

B. Bourgeois, J.-L. Boutaine, and B. Rattoni, 1996, Radiographie et restauration de marbres antiques: l'exemple du Musée du Louvre. *11th Triennial Meeting Edinburgh 1-6 September 1996, ICOM Committee for Conservation, 793-797.*

B. Bourgeois, 1995, La Vénus d'Arles ou les Métamorphoses d'un Marbre Antique. *Restauration, Dé-restauration, Re-restauration..Paris-5,6 et 7 Octobre 1995, Actes du 4-colloque internationale de l'ARAAFU*, 125-137.

B. Bourgeois, Blanc de baleine et bain del sel. Le traitement des antiquités salpêtrées (pierre et terre cuite) au Louvre vers 1900. *Le Dessalement des matériaux poreux, Tes Journées d'études de la SFIC, Poitiers, 9-10 mai 1996*, 43-53.

M. J. Crosbie, 1995, Carrara's mountains of marble. *Progressive Architecture* 76, #5, 55. Carrara's 200 marble quarries yield about 1.5 million tons yearly, producing 8 varieties including: white-statuario, bianco, and gray bardiglio.

V. Fassina, 1995, New findings on past treatments carried out on stone and marble monuments surfaces. *Science of the Total Environment* 167, 185-203.

M. Franzini, 1995, Stones in monuments - natural and anthropogenic deterioration of marble artifacts. *European Journal of Mineralogy* 7, 735-743.

M. Mariottini & S. Faramondi, 1994, Una proposta di schedatura per lo studio di collezioni litologiche di interesse storico-artistico; esempio di applicazione. *Bol. del Servizio Geologico d'Italia* 111-1992, 217-232. A proposal for a modelling work-sheet in characterization of historical lithological collections.

K. Matthews, 1994, Report on the stable isotopic analysis of marble used in the construction of the Theatre and the Temple of Mars at Halicarnassus. *The Maussolleion at Halikarnassos. Reports of the Danish Archeological Expedition to*

*Bodrum. Jutland Archaeological Society Publications*, XV:3,1, 189-192.

K. Matthews, 1995, Report on the stable isotopic analysis of three fragments from a marble ambo from Novae. *Novae (Studies of Materials I*, ed. by A. Biernacki, 83-85.

K. Matthews and R. Burleigh, 1994, Stable isotopic analysis of marble samples from Djebel Filfila. *Fouilles du Forum de Cherchel 1977-1981*, ed. by N. Beneseddik and T. Potter, *6e Supplement au Bulletin d'Archeologie Algerienne*, 52-53.

I. G. Meighan, D. D. Jamieson, et al., 1993, Trace element and isotopic provenancing of North Antrim porcellanites: Portrush-Tievebulliagh-Brockley (Rathlin Island). *Ulster Journal of Archaeology* 56, 25-30

I. J. Richards et al., 1996, Contrasting stable isotope behaviour between calcite and dolomite marbles, Lone Mountain, Nevada. *Contributions to Mineralogy & Petrology* 123, 202-.

S. S. Yerrapragada et al., 1996, Weathering rates of marble in laboratory and outdoor conditions. *Journal of Environmental Engineering* 122, 856-.

## Communications

A symposium entitled, "Geochemistry and Archaeology" will be held at the American Chemical Society Spring meeting in San Francisco, April 13-17, 1997. The symposium will bring together parties involved in the application of analytical chemical, spectroscopic and dating techniques to the study of

- B. Bourgeois, 1995, La Vénus d'Arles ou les Métamorphoses d'un Marbre Antique. *Restauration, Dérestauration, Re-restauration...Paris-5,6 et 7 Octobre 1995, Actes du 4-colloque internationale de l'ARAAFU*, 125-137.
- B. Bourgeois, Blanc de baleine et bain del sel. Le traitement des antiquités salpêtrées (pierre et terre cuite) au Louvre vers 1900. *Le Dessalement des matériaux poreux, 7es Journées d'études de la SFIC, Poitiers, 9-10 mai 1996*, 43-53.
- M. J. Crosbie, 1995, Carrara's mountains of marble. *Progressive Architecture* 76, #5, 55. Carrara's 200 marble quarries yield about 1.5 million tons yearly, producing 8 varieties including: white-statuario, bianco, and gray bardiglio.
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- K. Matthews, 1995, Report on the stable isotopic analysis of three fragments from a marble ambo from Novae. *Novae (Studies of Materials I*, ed. by A. Biernacki, 83-85.
- K. Matthews and R. Burleigh, 1994, Stable isotopic analysis of marble samples from Djebel Filfila. *Fouilles du Forum de Cherchel 1977-1981*, ed. by N. Beneseddik and T. Potter, *6e Supplement au Bulletin d'Archeologie Algerienne*, 52-53.
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## Communications

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geochemical and biogeochemical processes, and geological materials of archaeological importance. Submissions are encouraged from researchers involved in "the development and application of chemical or spectroscopic techniques for use in the characterization of geological materials, provenance studies and dating of archaeological materials and finds". Three copies of a 150 word abstract using an original ACS abstract form should be submitted by November 8, 1996 to Dr. Richard P. Evershed, Organic Geochemistry Unit, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K. tel. 44-117-9287671, fax - 9251295, e-mail r.p.evershed@bristol.ac.uk.

A colloquium entitled *Les Faubourgs des Villes, Suburbia, en Gaule Romaine et dans les Regions Voisines*, sponsored by the Centre de Recherches Andre Piganiol, Section d'Archeologie et Civilisation des Regions Occidentales du Monde Romain, Faculte des Lettres et des Sciences Humaines, Universite de Limoges, will take place May 16-17, 1997 in Paris. Stone quarries are listed in the preprogram. Other subjects are Cities of the Upper Empire (colonies and city capitals), Suburbia of the cities of the Lower Empire, Regional Syntheses, Epigraphy, Architectural Aspects, Decorative Elements (sculpture, painting, mosaics), Relations between the City and its periphery. Suggested contributions, title and a several line resume should be sent to Dr. Robert Bedon, Centre de Recherches Andre Piganiol, Faculte des Lettres et des Sciences Humaines, Universite de Limoges, 39 E, rue Camille-Guerin, F-87036, Limoges before the end of 1996. Publication of the acts will be within one year. Each author will receive 20 preprints.

The Second Congress on Archaeometry, organized by the Grupo de Espectroscopia Analitica y Sensores of the Department of Analytical Chemistry of the University of Zaragoza and the Grupo Interdisciplinar de Arqueometria de la Universidad de Zaragoza will take place 16-19 September, 1997. The aim of the conference is to bring together scientists working in archaeometry. An update of archaeometry in Spain will be presented. Topics include material characterization, prospection, etc. A bstract deadline is 30 November. Contact Josefina Perez Arangegui, Depto. Quimica Analytica, Facultade de Ciencias, Universidad de Zaragoza, Pl. San francisco, s/n, 50009 Zaragoza, Spain. e-mail jperez@msf.unizar.es, tel. 34 76 761000, fax 34 76 761292.

A new listserver has been established for discussion of all matters pertaining to the analysis of archaeological lithics, natural and artificial. The intent is to increase the dialogue between colleagues on all continents and to help continue the refinement of the science of lithic analysis. To post messages, send them to lithics1@listserv.ascu.buffalo.edu. To subscribe, send the message "sublithics-1 <your first name and last name>" to listserv@ascu.buffalo.edu.

Geochron Laboratories, a division of Krueger Enterprises, Inc. annually awards a series of research grants to graduate students requiring interesting or new applications of isotopic analyses. The awards consist of analytical services to be performed free of charge to the winner in each category. For the past several years awards have been offered in K-Ar dating, C-14 dating and stable isotope ratio analysis (SIRA), SIRA in dietary studies and of fluid inclusions in minerals. The awards are

offered in an effort to encourage the application of isotopic analytical techniques to solve original and significant problems. The deadline for applications is May 1, 1997. Early application is suggested. For Research Award Program Guidelines and official rules, call 617-876-3691, fax 617-661-0148 or write 711 Concord Avenue, Cambridge, MA 02138 USA.

Metals in Antiquity, an international conference will be held in Cambridge, Mass. USA from September 10-13, 1997 sponsored by Harvard University, Archaeometry Laboratories and the University of Bradford, Ancient Metallurgy Research Group. The conference aims to promote an understanding of ancient metallurgy. It will explore the distribution of metals in the natural environment, extractive metallurgy and fabrication and the use and deposition of ancient artifacts. Contact Suzanne Young at Harvard, Peabody Museum, 11 Divinity Ave., Cambridge, MA 02138 USA. tel. 617-495-4388, fax -8925, email SYoung@FAS.Harvard.Edu or Dr. Paul Budd at Bradford, tel. 44-1274-383554, fax -385190, email P.Budd@ Bradford.ac.uk.

Sperlonga and the Pergamon Altar, the Fourth Langford Conference will be held in Tallahassee, Florida, USA, February 21-22, 1997 under the direction of Brunilde S. Ridgway. The conference will focus on the relationship between the Hellenistic Great Altar of Pergamon, now in Berlin, and the sculptural groups discovered at the Roman site of Sperlonga, Italy, 1957. Contact Nancy T. deGrummond, Classics Department, Florida State University, Tallahassee, FL 32306-4031, USA; ndegrumm@mailier.fsu.edu, tel. 904-644-4259.

THE INTERNATIONAL SYMPOSIUM ON ARCHAEOOMETRY will take place April 27-May 1, 1998 at the HUNGARIAN NATIONAL MUSEUM, Budapest. The organizing committee invites you to attend the 31st International Symposium on Archaeometry, The host of the '98 Symposium will be the Hungarian National Museum in collaboration with a number of research centres and academic institutions from Hungary. Symposium topics will include dating of organic and inorganic materials, ancient and historical technology, artifact provenance studies (metals and non-metals), prospection, the study of biological materials, mathematical and statistical methods. Special thematical sessions and round table discussions will be organised on the problems of experimental archaeology and its impact on scientific archaeology and polished stone artefact studies. The floor is still open to further specific specialists' workshops. Field trips will be organised before and after the conference. If you are interested in attending the symposium please respond not later than 31 January 1997. Applications or inquiries can be made by letter, fax, or e-mail. You can also consult the WWW page for latest developments. Presentations will be made in form of oral papers or posters: the assignment of lectures will be based on the review of abstracts by an international committee of specialists ("convenors"). The conference fee will be around 200 USD for registered participants and 80 USD for students. The organisers are trying to get extra funds for participation grants. More details on these and costs of accomodation, as well as further technical information will be given in the 2nd circular. Important dates: respond not later than 31 January 1997 2nd circular posted March 1997; abstracts expected November 1997 (latest).

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A report entitled, "Determination of weathering and conservation of sculptured stone by use of the laser method" is available from Dr. Goran Aberg, Institute for Energy Technology, P. O. Box 40, N-2007 Kjeller, Norway; email [gaa@ife.no](mailto:gaa@ife.no). The report is of the Eureka Project 1394 Isolaser, sponsored by the Research Council of Norway.

Abstracts are available for the papers presented at the International Symposium on Archaeometry, May 20-24 1996, Urbana, Ill., USA at <http://www.wisc.edu:2784/anthropology/sas/ARK96.htm>

Abstracts are available for the just completed workshop on "The Practical Impact of Science on Field Archaeology, 28-29 October 1996 in Israel at <http://www.wisc.edu/anthropology/sas/iswrk.htm>

The Society of Archaeological Sciences web pages has much useful information including details on upcoming meetings: <http://www.wisc.edu/anthropology/sas/sas.htm>

## Calendar

(\* = new items or information)

### 1996

Dec 02-06. *Materials Research Society*, Fall Meeting,

Boston. Contact Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237 USA. tel. 412-367-3003, fax 412-367-4373. <http://www.wisc.edu/anthropology/sas/184D.htm>

Dec 27-30. *98th Annual Meeting of the Archaeological Institute of America*, New York City. Contact AIA, 656 Beacon Street, Boston, MA 02215, tel. 617-353-6550.

### 1997

Feb. 10-13. *Australasian Archaeometry: 6th Australasian Archaeometry Conference*, Sydney. Australian Museum. Contact Robin Torrence, tel. 02-339-8238, e-mail [robint@amsg.austmus.oz.au](mailto:robint@amsg.austmus.oz.au) or Conference Manager at [ainse@ansto.gov.au](mailto:ainse@ansto.gov.au)

\*Feb. 21-22. *Sperlonga and the Pergamon Altar*, Tallahassee, Florida. Contact Nancy T. deGrummond, Classics Department, Florida State University, Tallahassee, FL 32306-4031, USA; [ndegrumm@mailers.fsu.edu](mailto:ndegrumm@mailers.fsu.edu), tel. 904-644-4259. Information in this newsletter.

\*Feb. 22-23. *Workshop in Archaeometry*, University of Buffalo, USA. Contact Phillip Mitchell, [pcm@acsu.buffalo.edu](mailto:pcm@acsu.buffalo.edu)

\*April 02-06. *Society for American Archaeology*, Annual Meeting, Nashville, TN, USA. Contact SAA, 900 Second St., NW, #12, Washington, DC, USA. tel. 202-789-8200.

April 07-11. *Materials Research Society*, Spring Meeting, San Francisco. Contact Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237 USA. tel. 412-367-3003, fax



412-367-4373.

\*April 10-13. *Computer applications and quantitative methods in Archaeology*. 25th Anniversary Conference, University of Birmingham, U.K.  
<http://www.bu.fau.bham.ac.uk/caa97.htm>

\*April 13-17. *Geochemistry and Archaeology*, American Chemical Society Spring Symposium, San Francisco. Contact Dr. Richard P. Evershed, Organic Geochemistry Unit, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K.  
tel. 44-117-9287671, fax -9251295, e-mail [r.p.evershed@bristol.ac.uk](mailto:r.p.evershed@bristol.ac.uk).  
Information in this newsletter

May 06-11. *IVth International Symposium on the Conservation of Monuments in the Mediterranean Basin*. Contact Prof. A. Moropoulou, NTU-A. Office for Public & International Affairs, 9 Iroon Polytechniou, Zografou Campus, 157-73 Athens, Greece,  
tel. 30-1-772 2017/772 2006, fax 30-1-772 2028.

\*May 16-17. *Les Faubourgs des Villes, Suburbia, en Gaule Romaine et dans les Regions Voisines*, Paris. Contact Dr. Robert Bedon, Centre de Recherches Andre Piganiol, Faculte des Lettres et des Sciences Humaines, Universite de Limoges, 39 E, rue Camille-Guerin, F-87036, Limoges. Information in this newsletter.

June 23-27. *Engineering Geology and the Environment*, Athens. International Symposium sponsored by the International Association of Engineering Geology. Information Hellenic Committee of Engineering Geology, Athens 1997 Symposium Secretariat, P. O. Box 19140, GR-117 10 Athens, Greece. fax 301 3813900.

\*July 28-Aug 01. *GeoSciEd II: 2nd International Conference on Geoscience Education*. University of Hawaii at Hilo. Contact: M. Frank Watt Ireton, American Geophysical Union, 2000 Florida Ave.NW, Washington, D.C. 20009, USA. e-mail: [fireton@kosmos.agu.org](mailto:fireton@kosmos.agu.org)

\*Aug 28-Sept 03. *IV International Conference on Geomorphology*. Bologna, Italy. IV International Conference on Geomorphology, Planning Congressi s.l.r., Via Crociali 2, I-40138 Bologna, Italia.

\*Sept 02-04. *Archaeological Sciences '97 Durham*. University of Durham, UK. Contact Dr. Andrew Millard, Department of Archaeology, University of Durham, South Road, Durham. DH1 3LE. U.K. Tel: +44 191 374 4757, Fax: +44 191 374 3619.  
e-mail [A.R.Millard@durham.ac.uk](mailto:A.R.Millard@durham.ac.uk),  
<http://www.dur.ac.uk/Archaeology/confs/ArchSci97.html>

\*Sept 10-13. *Metals in Antiquity*, Cambridge, Mass. USA. Sponsors Harvard University, Archaeometry Laboratories and the University of Bradford, Ancient Metallurgy Research Group. Contact Suzanne Young at Harvard, tel. 617-495-4388, fax -8925, email [SYoung@FAS.Harvard.Edu](mailto:SYoung@FAS.Harvard.Edu) or Dr. Paul Budd at Bradford, tel. 44-1274-383554, fax -385190, email [P.Budd@Bradford.ac.uk](mailto:P.Budd@Bradford.ac.uk).  
Information in this newsletter.

\*Sept 16-19. *Second Congress on Archaeometry*, Zaragoza, Spain. Organized by the Grupo de Espectroscopia Analitica y Sensores of the Department of Analytical Chemistry of the University of Zaragoza and the Grupo Interdisciplinar de Arqueometria de la Universidad de Zaragoza. Abstract deadline 30 November. Contact Josefina Perez Arangegui, Depto. Quimica Analytica,



Facultade de Ciencias, Universidad de Zaragoza, Pl. San Francisco, s/n, 50009 Zaragoza, Spain. e-mail jperez@msf.unizar.es, tel. 34 76 761000, fax 34 76 761292. Information in this newsletter.

Sept. 21-27. *XIII International Symposium on Environmental Biogeochemistry*, Monopoli (Bari) Italy. Special session of weathering processes of monuments and techniques of diagnosis. Information Prof. Nicola Senesi, XIII ISEB, Istituto di Chimica Agraria, Univ. di Bari, via Amendola 165A, 70126 Bari, Italy. tel. 39-80-5442853, fax -5442813, email nsenesi@mail2.clio.it

Oct. 20-23. *Geological Society of America*, Annual Meeting, Salt Lake City, Utah, USA. Contact GSA 3300 Penrose Place, Boulder, CO 80301. tel. 303-447-2020, fax 303-4471133.

\*Dec. 01-05. *Materials Research Society*, Fall Meeting, Boston, Mass., USA. Contact Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237 USA. tel. 412-367-3003, fax 412-3674373. <http://www.wisc.edu/anthropology/sas/184D.htm>

## 1998

\*Apr. 27-May 01. *International Symposium on Archaeometry -1998*, Budapest. Information in this newsletter.

June 10-15. ASMOSIA 5, Boston.

## New Members

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