



2nd Metal Conservation workshop – EC MEDAL project

Dates: 3 – 7 November 2008

Place: University of Aleppo, Faculty of Mechanical Engineering, Department of Material Engineering, Aleppo, Syria

The workshop is organized under the auspices of the European Commission (EC) and the framework of the EC MEDAL project by:

- Consiglio Nazionale delle Ricerche - Istituto per lo Studio dei Materiali Nanostrutturati - CNR, Italy
- Politecnico di Torino di Torino, Italy
- Agenzia per la Promozione della Ricerca Europea – APRE, Italy
- National Research Center – NRC, Egypt
- The Egyptian Museum, Egypt
- EGE University, Turkey
- University of Aleppo, Syrian Arab Republic



Aim and objectives

The workshop covers a wide range of interdisciplinary topics such as degradation phenomena, conservation materials and methods, portable equipments, innovative diagnostic techniques, copper, iron and silver metallurgy, ancient extractive and manufacturing processes, chemistry and physics.

The main objectives of the course are:

- to give Participants the theoretical and practical knowledge essential for knowing ancient metals, for diagnosing the causes of their degradation and for selecting the most appropriate materials and reliable long-term efficient methods of conservation;
- to extend the knowledge of Participants beyond their own skill and experience for a broader understanding of different aspects and approaches to ancient metal conservation;
- to bring people with various cultural background from different Mediterranean Countries together for a mutual learning experience, practices and approaches to ancient metal conservation and to the use of innovative and reliable conservation materials.

Participants

Applicants should be students, young researchers, conservators and professionals who would learn or work within the field of ancient metal conservation. The number of Participants is limited to 45.

Participants may be selected on the basis of order of receipt of registration, appropriate prior experience, and training. Selections may also be made to balance cultural backgrounds, professional experience, geography and institutional provenance, and to limit the number of participants from any single Organisation.

Language

The language is mainly English.

Participation is free of charge for the selected Participants.

Application deadline

Participants have to fill in the MEDAL workshop application form and send it to the following address no later than 20 October 2008:

Dr. Ahmad Almansour

University of Aleppo, Faculty of Mechanical Engineering
 Department of Materials Engineering
 Aleppo, Syria

Tel +963 944 689763, Fax +963 21 2679101

e-mail: medalalp@yahoo.com

For more information, please contact one of the following:

Dr. M. Jameel Alshehne (Head of Department)

University of Aleppo, Faculty of Mechanical Engineering
 Department of Materials Engineering
 Aleppo, Syria

Tel +963 944 359452 Fax +963 21 2679101



Dr. Gabriel Maria INGO

Istituto per lo Studio dei Materiali Nanostrutturati - Consiglio Nazionale delle Ricerche (ISMN-CNR)
Area della Ricerca di Roma-Montelibretti, Via Salaria km 29.5, 00010 Montelibretti, Rome, Italy
tel + 39 06 90672336, + 39 06 90672678, Fax + 39 06 90672714
e-mail: gabriel.ingo@ismn.cnr.it

Cancellation of workshop

Workshop could be subject to cancellation. In such cases, the Organiser is not responsible for transportation, accommodation, loss of income, or other costs that may have been incurred by registrants.

Travel and accommodation

Each participant will pay the costs for travel, subsistence and accommodation in Aleppo:

- 1- Hotel Pullman Al Shahba: Modern Style 4-star Hotel, Located near university campus, about 15 minutes walk to workshop venue. Price: 99 USD for Single room, 117 USD for Double room. Add.: University Street, Aleppo, Syria. Tel: +963 21 2667200, Fax: +963 21 2667213, e-mail: Pullmanres@mail.sy, website: <http://www.pullman-syria.com>. Contact Person:
- 2- Beit Salahieh Hotel: 15th Century Style 3-star Hotel, Located near Aleppo Citadel, 20 minutes by car to campus. Price: 70 USD for single room and 85 USD for Double room. Add: near Aleppo Citadel, Aleppo, Syria. Tel: +963 21 331222, Fax: +963 21 3322688, e-mail: info@beitsalahieh.com, web: www.beitsalahieh.com. (Please mention the Name of Dr. Ahmad Almansour when making reservation to get the proper price).
- 3- Aleppo University Guest House, in the Campus (10 minutes walk from the venue of the workshop). Rooms are equipped with bed and desk. The bath and toilets are common in each floor. Price: 10 EURO for the room. (Anyone wishes to book in Guest House should send to Dr. Ahmad Almansour before 20th October).

Please mention the name of Dr. Ahmad Almansour when making reservation to get the proper price.

MEDAL workshop form

Name and Surname:		
Street Address:		
City:	State:	Postcode:
Phone:		Fax:
E-mail:	Activity area:	
Position:		
Organisation:	Position/Title:	
Suggested other topics:		
Visit to Ebla and Palmyra: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Participants have to fill in the MEDAL workshop application form , within 20 October and send it to:

Dr. Ahmad Almansour

University of Aleppo, Faculty of Mechanical Engineering, Department of Materials Engineering

Fax: +963 21 2679101

e-mail: medalalp@yahoo.com



Programme

First Day (10 a.m. - 4 p.m.)

- ⇒ Welcome and presentation of host organization - I. Antebas (Aleppo University)
- ⇒ Conservation needs and problems in the Mediterranean Basin: the point of view of archaeologists, conservators and scientist in Medal Project - A. Cilingiroglu (EGE University), G.M. Ingo (ISMN-CNR), S. Grassini (Politecnico di Torino)
- ⇒ The Italian experience in the 5FP and 6 FP EU projects in the field of conservation of Cultural Heritage – G.M. Ingo (ISMN-CNR), E. Angelini (Politecnico di Torino).
- ⇒ Presentation of MEDAL project, G. Rossi (APRE)

Second Day (10 a.m. - 4 p.m.)

- ⇒ Short introduction to ancient extractive metallurgy and metal manufacturing processes – G.M. Ingo (ISMN-CNR), C. Tarhan (EGE University), V. Gouda (NRC)
- ⇒ Interaction metal-environment : Corrosion in atmosphere, soil and water, corrosion typologies and mechanisms - E. Angelini (Politecnico di Torino), S. Grassini (Politecnico di Torino)
- ⇒ Selected case study : the bronze artifacts from Ayanis Fortress – A. Cilingiroglu (EGE University), G.M. Ingo (ISMN-CNR)
- ⇒ Training on patinas and reference alloys – C. Riccucci (ISMN-CNR), D. Mombello (Politecnico di Torino)
- ⇒ Opportunities of 7th Framework Programme of European Union in the Cultural Heritage field- G. Rossi (APRE)

Third Day (10 a.m. - 4 p.m.)

- ⇒ Introduction to traditional and innovative diagnostic techniques for the conservation assessment of ancient metal artefacts:
- ⇒ Microchemical and microstructural characterization : X-ray diffraction (XRD), Atomic force microscopy (AFM), X-ray fluorescence (XRF), selected area X-ray photoelectron spectroscopy (SA-XPS) - G.M. Ingo, C. Riccucci, G. Padeletti, M.P. Casaletto (ISMN-CNR), E. Angelini (Politecnico di Torino)
- ⇒ Morphological characterization: optical microscopy (OM), scanning electron microscopy combined with energy dispersive spectrometry (SEM-EDS), S. Grassini (Politecnico di Torino), G.M. Ingo, C. Riccucci, G. Padeletti (ISMN-CNR).
- ⇒ Training on the use of a XRF portable equipment, V. Gouda (NRC), N. Ghani (NRC).

Fourth Day (10 a.m. - 4 p.m.)

- ⇒ Introduction to conservation materials and methods in Egypt - V. Gouda (NRC)
- ⇒ Corrosion Inhibitors : Traditional and innovative green inhibitors - G. Ingo, M.P. Casaletto, C. Riccucci (ISMN-CNR)
- ⇒ Coatings with barrier effects by Plasma treatments – S. Grassini (Politecnico di Torino)
- ⇒ Electrochemical methods (EIS) for monitoring the efficacy of conservation treatments – E. Angelini (Politecnico di Torino)
- ⇒ Training on the use of a EIS portable equipment – D. Mombello (Politecnico di Torino), C. Riccucci (ISMN-CNR)
- ⇒ People Programme (Marie Curie Fellowships) of of 7th Framework Programme of European Union (G. Rossi APRE)

Fifth Day (10 a.m. - 4 p.m.)

Visit to the Aleppo Museum and conservation laboratories

How to reach the Aleppo University?

- 1- Damascus International Airport, located in Damascus about 365 Km to the south of Aleppo. Then you can take domestic flight to Aleppo International Airport. You can also take a Pullman bus to Aleppo. They are very frequent. You have to ask the taxi driver to take you to Pullman bus center.
- 2- Aleppo International Airport, located about 20 Km to the north east of Aleppo.

Aleppo University is located in the south of Aleppo City near Damascus highway. It consists of one Campus which is very well known to every taxi drivers. Please say it in Arabic as “Jamiat Halab”. The workshop venue is located at the far end of the campus.

