

REGISTRATION

Please use the on-line registration form for the registration (<http://iuca.unizar.es/science-and-past-registration>)

Registration fees:

REGISTRATION PERIOD	DATE	SENIOR REGISTRATION FEE	STUDENT REGISTRATION FEE
Early registration	until October 31, 2012	200 €	110 €
Late registration	from November 1, 2012	275 €	180 €

Registration fees include:

- Attendance to course sessions
- Program and course documentation
- Certificate of attendance
- Coffee Breaks
- Bus and visit to the cathedral of Tarazona.

PAYMENT:

Payment (in euro) should be made by bank transfer to:
Bank: Ibercaja
IBAN: ES 82 2085 0111 79 0330788546
Swift code: CAZRES2Z

Please, include clearly your name in the bank transfer voucher

CONFIRMATION OF REGISTRATION:

Your registration will be confirmed when the payment of the registration fee is received by the organizers (please, send copy of the bank transfer to iuca@unizar.es). Written confirmation will be sent you by e-mail

FINANCIAL SUPPORT:

Financial support will be given for a limited number of participants to cover travel expenses in full or partly. Application deadline October 25, 2012.

Course coordinator:

Dr. Josefina Pérez-Arantegui (IUCA, University of Zaragoza)

For further information:

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SCIENCE & PAST MATERIALS CONSERVATION FOR A SUSTAINABLE DEVELOPMENT

4TH INTERDISCIPLINARY COURSE

NOVEMBER 13-16, 2012

UNIVERSITY OF ZARAGOZA · SPAIN

ORGANIZATION:

Environmental Sciences Institute · IUCA (Universidad de Zaragoza)
Facultad de Ciencias, C/ Pedro Cerbuna, 12 · 50009 Zaragoza · Spain
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 Instituto Universitario de Investigación en Ciencias Ambientales de Aragón
Universidad Zaragoza

TO BE HELD:
Biblioteca María Moliner
Campus San Francisco · Universidad de Zaragoza



Universidad Zaragoza



FACULTAD DE FILOSOFÍA Y LETRAS



 GOBIERNO DE ARAGON

Program The course is focused on the development and use of new conservation techniques in order to preserve cultural heritage materials.

The lectures are addressed to students, researchers and professionals in chemistry, physics, geology, architecture, geography, archaeology, conservation science, art, etc., to acquire a solid knowledge on conservation sciences applied to the study, safeguarding and authentication of material heritage.

TUESDAY, 13TH NOVEMBER

9:00. "Science & Conservation: Introduction". **Marius Vendrell** (Universidad de Barcelona, Spain)

9:30. "Building stones: analyses and information". **Marius Vendrell** (Universidad de Barcelona, Spain)

11:00. *Coffee break*

11:30. "Analytical techniques for the characterisation and conservation of organic materials". **Francesca Modugno** (Università di Pisa, Italy)

13:30. *Discussion*

15:30. "Diagnosis and conservation of contemporary art materials". **Maria Perla Colombini** (Università di Pisa, Italy)

17:00. *Coffee break*

17:30. "Characterization of wet archaeological wood". **Francesca Modugno** (Università di Pisa, Italy)

18:30. *Discussion*

THURSDAY, 15TH NOVEMBER

9:00. "Microbiologist's view on cultural heritage preservation: i) Methods of analysis". **Anna Gorbushina** (BAM, Federal Institute for Materials Research and Testing, Germany)

10:00. "Microbiologist's view on cultural heritage preservation: ii) Microbiological consequences of environmental exposure and conservational treatments". **Anna Gorbushina** (BAM, Federal Institute for Materials Research and Testing, Germany)

11:00. *Coffee break*

11:30. "Climate influence in the conservation of cultural heritage". **Lorenzo Appolonia** (Soprintendenza per i beni e le attività culturali, Valle d'Aosta, Italy)

13:00. *Discussion*

14:30. *Bus departure to Tarazona (Zaragoza, Spain)*

16:00. GUIDED VISIT TO THE CATHEDRAL OF TARAZONA

17:00. "Proceso de restauración integral e interdisciplinar y de conservación de la Catedral de Tarazona" (*Process of interdisciplinary comprehensive restoration and conservation of the Cathedral of Tarazona*). **Fernando Aguerri Martínez - José Ignacio Aguerri Martínez** (Arquitectos Directores del Plan Director de la Catedral, Spain)

FRIDAY, 16TH NOVEMBER

9:00. "Pablo Picasso, an artist between two centuries. The Picasso Museum of Barcelona: scientific studies applied to the documentation of the collections and the determination of the techniques and materials in Picasso's work". **M. Reyes Jiménez Garnica** (Museo Picasso de Barcelona, Spain)

10:30. *Coffee break*

11:00. "Value enhancement of paleontological sites: from preservation to dissemination. Part One: Interpretation and Dissemination". **Jose Luis Barco** (Paleoymas, Spain)

12:00. "Value enhancement of paleontological sites: from preservation to dissemination. Part Two: Preservation and Conservation". **Jose Luis Barco** (Paleoymas, Spain)

13:00. *Discussion & Concluding remarks*