



The Erasmus Mundus Master's Course «Advanced spectroscopy in chemistry» is a two-year (120 credits) programme within 5 European universities, providing students with a cross cultural education and expertise in state of the art spectroscopic techniques in a broad range of modern chemistry applications.

A winter school is organized each year in a different location on a chosen topic to deepen one specific field of spectroscopy.

www.master-asc.org



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI CHIMICA INDUSTRIALE
"TOSO MONTANARI"

Department of Industrial Chemistry
"Toso Montanari"

Local Organizing Committee

Marco Giorgetti (Chair)
Mario Berrettoni (Co-chair)
Filippo Tamassia
Paolo Righi
Angelo Mullaliu
Michela Ciabocco
Marco Campolongo
Annalisa Muzzi

Fees: 500 EUR
(Including meals and accommodation)

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www.master-asc.org

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Supported by:
LAV, Lab Service, ASSING

ASC Winter School 2017

Rimini (Italy), Feb 28th-March 3rd, 2017



Spectroscopy for the Applied Chemistry



Navigare Necesses, Via dei Mille 39,
I-47491 RIMINI (RN). Italy

Programme

Monday, February 27th, room NN1A

15-20

Registration ASC Winter School

Tuesday, February 28th, room NN4

8:30 Opening

9:00-10:40 lecture 1

G. Aquilanti, ELETTRA

"X-ray Matter interaction"

10:40-12:20 lecture 2

D. Sali, BRUKER

"State of the Art Molecular Spectroscopy applied to cultural heritage"

14:00-16:00 lab 1

D. Sali, BRUKER

"Demonstration: State of the Art Molecular Spectroscopy applied to cultural heritage"

16:30-19:00 ASC EVENT

Wednesday, March 1, room NN4

8:30-10.10 lecture 3

J. Plaisier, ELETTRA

"Powder XRD using SR"

10:10-11:50 lecture 4

E. Hey-Hawkins, Univ. Leipzig

"Phosphorus-rich Compounds for Materials Science"

11:50-13:30 lecture 5

M. Baranska, Univ. Krakow

"Raman spectroscopy for imaging of biological structures"

15:00-16:40 lecture 6

M. L. Saladino, Univ. Palermo

"A multidisciplinary approach to the analysis of a painting"

16:50-19 lab 2

E. Caponetti, Univ. Palermo

Demonstration : Portable XRF laboratory

Thursday, March 2, room NN5

8:30-10:10 lecture 7

D. Chillura Martino, Univ. Palermo

"Small Angle Scattering (SAS) techniques: theory and applications "

10:10-11:50 lecture 8

R. Tarroni, Univ. Bologna

"Computational spectroscopy: a modern tool to model transient species in the atmosphere"

11:50 – 13:30 lecture 9

S. Liisa Maunu, Univ. Helsinki

"Versatility of NMR Spectroscopy – Dissolution Process of Wood Fibers as an Example"

15:00 – 16:40 lecture 10

A. Mazzanti, Univ. Bologna

"Spectroscopic and Computational Tools for the Conformational Analysis of Organic Molecules"

Guided tour of Rimini Cultural Heritages

Friday, March 3, room NN4

8:30-10:10 lecture 11

E. Fonda, Synchrotron SOLEIL

"Introduction to synchrotron radiation"

10:10-11:50 lecture 12

F. Boscherini, Univ. Bologna

"Introduction to XAFS with selected applications"

A CONSORTIUM OF 5 UNIVERSITIES

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