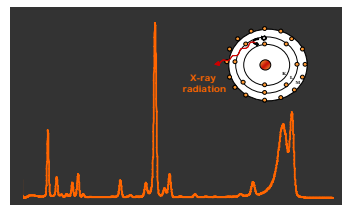


THEOPRAX – 2015



Theoretical and Practical X-ray fluorescence spectrometry workshop: Instrumentation and Applications 30 June – 2 July 2015

Main Topics

- Interaction of X-rays with matter
- XRF instrumentation
- Qualitative, quantitative and standardless analysis
- Specimen preparation strategies
- Validation of XRF methodologies
- Micro-XRF analysis
- Total reflection XRF
- Thin layer analysis
- Energy dispersive XRF
- Wavelength dispersive XRF
- Electron probe microanalysis

Practical activities

- Hands-on instrumentation
- Practical exercises of XRF applications using EDXRF, TXRF, WDXRF and micro-XRF instrumentation
- Calibration strategies
- Specimen preparation at lab for solid and liquid samples
- Sources of error in XRF
- Maintaining instrument integrity
- Spectra evaluation
- Discussion of problems encountered by participants

Short communications

- XRF in Forensic Sciences
- Core Scanner XRF in Geology & Climate Change
- Analysis of Cultural Heritage objects
- Quality Control by XRF in Mineral Industry

Lecturers

Alessandro Migliori, IAEA, Vienna, Austria
Bernd Nensel, Helmut Fischer GmbH, Germany
Pol de Pape, Rigaku Europe SE, Germany
Jan Stelling, Bruker AXS GmbH, Germany
Rafal Sitko, Univ. of Silesia, Poland
Xavier Llovet, Univ. Barcelona, CCIUB, Spain
Manuela Hidalgo, Univ. of Girona, Spain
Eva Marguí, Univ. of Girona, Spain
Ignasi Queralt, ICTJA/CSIC, Spain
Carles Mitjà, Central Laboratories, Mossos Esquadra, Spain
Maite Maguregui, Univ. Basque Country, Spain
Pau Pujolar, Analytical Lab, Minerals Girona, Figueres, Spain
Santiago Giralt, ICTJA/CSIC, Spain

Place & Contact

THEOPRAX-2015 will be held at the Scientific and Technological Park of the University of Girona, Girona, Spain

Further details at the Webpage of the event
<http://iqcc.udg.edu/theoprax2015/>

Contact & inquiries about Theoprax-2015:

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Course mail: theoprax2015@udg.edu

Bring your samples for analysis by the XRF experts. Class discussion will be based on selected experimental results obtained during the practical activities.

Organized by:

Department of Chemistry, University of Girona - UdG
Laboratory of X-ray Analytical Applications, ICTJA
Associated Unit Conmet, CSIC-UdG



In co-operation with:

