

DETAILED PROGRAMME

Day 1 – 20/09/2021

- 8:30-9:00** – **WELCOME CEREMONY**
- 9:00-9:45** – **Introduction to X-ray Fluorescence**
Kouichi Tsuji – Osaka City University (Japan)
- 9:45-10:30** – **Total reflection X-ray fluorescence analysis (TXRF) – Introduction, basics & fundamentals**
Peter Kregsamer – Technical Universitat of Wien (Austria)
- 10:30-10:45** **Coffee Break**
- 10:45-11:30** – **Total reflection X-ray fluorescence analysis (TXRF) – Instrumentation**
Peter Kregsamer – Technical Universitat of Wien (Austria)
- 11:30-12:15** – **TXRF point of view of qualitative and quantitative elemental analysis**
Ramón Fernández-Ruiz – Universidad Autónoma de Madrid (Spain)

Day 2 – 21/09/2021

- 9:00-9:45** – **Basic principles, practical considerations and constraints of sample preparation strategies used in TXRF analysis**
Eva Marguí – University of Girona (Spain)
- 9:45-10:30** – **Applications of TXRF: an overview of last decade experiences**
Fabjola Bilo – University of Brescia (Italy)
- 10:30-10:45** **Coffee Break**
- 10:45-11:30** – **POSTER SESSION**
- 11:30-13:00** – **TUTORIAL SESSION: TXRF Sample preparation**
Hagen Stosnach – Bruker Nano GmbH (Germany)

Day 3 – 22/09/2021

- 9:00-9:45** – **Synchrotron Radiation Induced Total Reflection X-ray Fluorescence**
Diane Eichert – Elettra Synchrotron (Italy)
- 9:45-10:30** – **TXRF vs GI-XRF (and XRR) for non-destructive thin film analysis**
Dieter Ingerle – Technical Universitat of Wien (Austria)
- 10:30-10:45** **Coffee Break**
- 10:45-11:30** – **POSTER SESSION**
- 11:30-13:00** – **TUTORIAL SESSION: Quantitative analysis and calibration**
Hagen Stosnach – Bruker Nano GmbH (Germany)

Day 4 – 23/09/2021

- 9:00-9:45 – **Recent trends in preconcentration strategies used in combination with TXRF analysis**
Eva Marguí – University of Girona (Spain)
- 9:45-10:30 – **TUTORIAL SESSION: Peak deconvolution for TXRF measurements - free software options**
Dieter Ingerle – Technical Universität of Wien (Austria)
- 10:30-10:50 **Coffee Break**
- 10:50-11:10 – **001: Biomonitoring of human health using TXRF method**
Regina Stachura – University of Kielce (Poland)
- 11:10-11:30 – **002: Elemental variability of fine atmospheric aerosols in Old Jeddah, Saudi Arabia**
Abdallah Shaltout – National Research Centre (Egypt)
- 11:30-11:50 – **003: Development of reference material for direct TXRF analysis of air filters**
Paola Cirelli – University of Brescia (Italy)
- 11:50-12:10 – **004: Quantifying cytotoxicity and cellular uptake of naked gold nanoparticles in breast cancer cells using total reflection X-ray fluorescence**
Natasha Hedden – Ryerson University (Canada)

Day 5 – 24/09/2021

- 9:00-9:45 **Applications of TXRF: innovations for screening and quantitative analysis of unconventional samples**
Laura Borgese – University of Brescia (Italy)
- 9:45-10:30 – **Development of TXRF standards for environment and health**
Laura Depero – University of Brescia (Italy)
- 10:30-10:50 **Coffee Break**
- 10:50-11:10 – **005: The investigation of potentially toxic elements in soil-plant-air system in vineyards in Serbia**
Tijana Milićević – University of Belgrade (Serbia)
- 11:10-11:30 – **006: The role of Americium-241 for the metal detection of solids, liquids and environment contaminants using a portable spectrometer device**
Claudio Larosa – University of Genova (Italy)
- 11:30-11:50 – **007: Multi-technique instrumental approach for the characterization of metallic archaeological artifacts**
Nicoletta Sgarro – University of Basilicata (Italy)
- 11:50-12:10 – **008: Total X-ray Fluorescence as a technique for measure the progress of the separation of Lu and Yb in a chromatographic column**
Cynthia Càceres Rivero – Peruvian Institute of Nuclear Energy (Perù)
- 12:10-12:30 **AWARDS AND CLOSING CEREMONY**