

SCIENTIFIC PROGRAM**Wednesday, Aug 29th, 2018**08:30 -10:00 - *Participant registration*10:00 -10:30 - *OPENING CEREMONY*10:30 -11:30 - *OPENING LECTURE (Chair: S.C. Tarantino)***Gilberto Artioli** (University of Padua, Italy)*Powder Diffraction: State of the Art and Perspectives**"THEORY AND INSTRUMENTS" (Chair: S.C. Tarantino)*11:30 -12:30 - **Ernesto Mesto** (University of Bari, Italy)*Fundamental Aspects of Powder Diffraction I*12:30 -13:30 - **Gennaro Ventruti** (University of Bari, Italy)*Fundamental Aspects of Powder Diffraction II*13:30 -15:00 - *Lunch*15:00 -16:00 - **Andrew N. Fitch** (ESRF, Grenoble, France)*Modern Powder Diffraction Instruments**"QUALITATIVE PHASE ANALYSIS" (Chair: A. Moliterni)*16:00 -17:30 - **Matteo Leoni** (University of Trento, Italy)*Qualitative Analysis. The PDF-4+ Database*17:30 -18:00 - *Coffee Break*

18:00 -19:00 - TUTORIAL: QUALX2 Software

Tutor: **Aurelia Falcicchio** (CNR Bari, Italy)19:30 - *Welcome Party***Thursday, Aug 30th, 2018***"STRUCTURE SOLUTION" (Chair: A. Altomare)*09:00-10:00 - **Elena Kabova** (University of Reading, United Kingdom)*Powder Diffraction for Solving Crystal Structures*10:00-11:00 - **Anna Moliterni** (CNR Bari, Italy)*Indexing and Space Group Determination*11:00-11:30 - *Coffee Break*11:30-12:30 - **Rosanna Rizzi** (CNR Bari, Italy)*Structure Solution in Reciprocal Space*12:30-13:30 - **Radovan Černý** (University of Geneva, Switzerland)*Structure Solution in Direct Space*13:30-14:30 - *Lunch**"STRUCTURE SOLUTION" (Chair: P. Mazzeo)*

14:30-16:00 - TUTORIAL: EXPO Software

Tutor: **Corrado Cuocci** (CNR Bari, Italy)

16:00-17:30 - TUTORIAL: FOX Software

Tutor: **Radovan Černý** (University of Geneva, Switzerland)17:30-18:00 - *Coffee Break*

18:00-19:30 - TUTORIAL: DASH Software

Tutor: **Elena Kabova** (University of Reading, United Kingdom)

Friday, Aug 31st, 2018

"THE RIETVELD METHOD for structure refinement and Quantitative analysis" (Chair: E. Schingaro)

09:00-11:00 - **Juan Rodriguez-Carvajal** (Institute Laue Langevin, Grenoble, France)
Rietveld Refinement

11:00-11:30 - *Coffee Break*

11:30-13:30 - **Giuseppe Cruciani** (University of Ferrara, Italy)
Quantitative analysis

13:30-15:00 - *Lunch*

"THE RIETVELD METHOD for structure refinement and Quantitative analysis " (Chair: R. Rizzi)

15:00 -16:30 - TUTORIAL: FULLPROF Software
Tutor: **Juan Rodriguez-Carvajal** (Institute Laue Langevin, Grenoble, France)

16:30 -17:00 - TUTORIAL: OCHEMDB Software
Tutor: **Nicola Corriero** (CNR Bari, Italy)

17:00 -17:30 - *Coffee Break*

17:30 -19:00 - TUTORIAL: GSAS Software
Tutor: **Giuseppe Cruciani** (University of Ferrara, Italy)

20:00- - *Social Dinner*

Saturday, Sep 1st, 2018

"PROFILE MODELING " (Chair: E. Mesto)

09:00-11:00 - **Bruno Lanson** (ISTerre, Université Grenoble Alpes, Grenoble, France)
Modeling Interstratified and Defective Structures

11:00-11:30 - *Coffee Break*

11:30-13:30 - **Matteo Leoni** (University of Trento, Italy)
Line Profile Analysis

13:30-15:00 - *Lunch*

"PROFILE MODELING" (Chair: G. Ventruti)

15:00-17:00 - TUTORIAL: DEFECTS MATTER Software
Tutor: **Bruno Lanson** (ISTerre, Université Grenoble Alpes, Grenoble, France)

17:00-17:30 - *Coffee Break*

17:30-19:30 - TUTORIAL: PM2K Software
Tutor: **Matteo Leoni** (University of Trento, Italy)

Sunday, Sep 2nd, 2018

"POWDER DIFFRACTION APPLICATIONS " (Chair: P.Lotti)

09:00-09:40 - **Giuseppe Cruciani** (University of Ferrara, Italy)
Powder Diffraction in Industry

09:40-10:20 - **Paolo P. Mazzeo** (University of Parma, Italy)
Powder Diffraction and Patents

10:20-10:50 - **Dubravka Šišak Jung** (DECTRIS Ltd., Switzerland)
Powder Diffraction for Difficult Organic Materials

10:50-11:20 - *Coffee Break*

11:20-12:20 - **Željko Skoko** (University of Zagreb, Croatia)
Non-Ambient Powder Diffraction

12:20-13:20 - **Jasminka Popović** (Ruđer Bošković Institute, Zagreb, Croatia)
Powder Diffraction for Materials Science

13:20-14:00 – *IUCr Young Scientists Awards*
ICDD Awards
Malvern PANalytical Award
Bruker Award
CLOSING CEREMONY

14:00-15:30 - *Lunch*