IUCr-UNESCO Bruker OpenLab Albania
Polytechnic University of Tirana, 30 May - 3 June 2016

P R O G R A M M E

Monday, 30 May
PUT, Main Auditorium "Silvano Pedrollio", second floor

17:00 Arrival of participants and registration
18:00-18:15 **Bujar Dida** (FIMIF-PUT) and **Dritan Siliqi** (IC-CNR), *Welcome*
18:15-19:00 ***Opening ceremony*** at the presence of authorities (Master of ceremony: **Bujar Dida**)
19:00-19:30 <u>Opening Lecture</u>: **Michele Zema** (IUCr) *Crystallography and Society: the contribution of the IUCr to the development of scientific education, research and infrastructure*
19:30-21:00 ***Welcome party*** offered by the Rector of the Polytechnic University of Tirana

Tuesday, 31 May
PUT, Faculty of Mathematical Engineering and Physical Engineering

09:00-10:00 **Bujar Dida** (FIMIF-PUT), **Michele Zema** (IUCr) and **Dritan Siliqi** (IC-CNR) *Introduction to the OpenLab*
10:00-13:00 GROUP A | ***Bruker Lab session I***: SMART X2S demonstration; crystal mounting and preparation; data collection (**Bruce Noll**)
10:00-13:00 GROUP B | ***XRPD Tutorial I***: An overview of powder diffraction; Instrumentation and methods for X-ray powder diffraction; Phase identification and qualitative phase analysis (**Corrado Cuocci**)
13:00-14:30 Lunch
14:30-17:30 GROUP A | ***XRPD Tutorial I***: An overview of powder diffraction; Instrumentation and methods for X-ray powder diffraction; Phase identification (**Corrado Cuocci**)
14:30-17:30 GROUP B | ***Bruker Lab session I***: SMART X2S demonstration; crystal mounting and preparation; data collection (**Bruce Noll**)

Wednesday, 1 June
PUT, Faculty of Mathematical Engineering and Physical Engineering

09:00-11:00 **Gervais Chapuis** (EPFL) *Symmetry in Crystallography*
11:00-11:15 Coffee break
11:15-13:00 <u>Exercises</u>: **Gervais Chapuis** (EPFL) *Symmetry in Crystallography*
13:00-14:30 Lunch
14:30-17:00 GROUP A | ***Bruker Lab session II***: Data reduction, structure solution and refinement with APEX3 (**Bruce Noll**)
14:30-17:00 GROUP B | ***XRPD Tutorial II***: Structure determination by XRPD – part I (**Corrado Cuocci**)

Thursday, 2 June
PUT, Faculty of Mathematical Engineering and Physical Engineering

09:00-11:00 **Gervais Chapuis** (EPFL) *X-ray diffraction*
11:00-11:15 Coffee break
11:15-13:00 <u>Exercises</u>: **Gervais Chapuis** (EPFL) *X-ray diffraction*
13:00-14:30 Lunch
14:30-17:30 GROUP A | ***XRPD Tutorial III***: Structure determination by XRPD – part II (**Corrado Cuocci**)
14:30-17:30 GROUP B | ***Bruker Lab session III***: X2S practicals: crystal mounting, data collection, structure solution and refinement (**Francesco Capitelli**, **Dritan Siliqi**, **Michele Zema**)

Friday, 3 June
PUT, Faculty of Mathematical Engineering and Physical Engineering

09:00-11:00 **Gervais Chapuis** (EPFL) *Structure solution*
11:00-11:15 Coffee break
11:15-12:15 **Gervais Chapuis** (EPFL) *Structure completion and refinement*
12:15-13:00 **Gervais Chapuis** (EPFL) *Anisotropic tensor properties*
13:15-14:30 Lunch
14:30-15:30 **Michele Zema** (IUCr) *Recap: single-crystal XRD analysis* – Open discussion
15:30-17:30 GROUP A | **Dritan Siliqi** (IC-CNR) *Crystallography for Biology and Medicine*
15:30-17:30 GROUP B | ***XRPD Tutorial III***: QualX/EXPO2014 hands-on (**Corrado Cuocci**)
17:30-18:00 **Bujar Dida** (FIMIF-PUT) and **Dritan Siliqi** (IC-CNR) *Closing ceremony and presentation of certificates*