



DATE

10-11 MARCH 2020

VENUE

IVODENT ACADEMY

Rr. Prokop Myzeqari nr 10

Tirana, Albania

X ray Scattering and Diffraction Techniques for Materials Characterization

Day 1

Structure solution process by X-Ray Powder Diffraction Data (XRPD)

Lecture: Nicola Corriero - 9:00 – 11:00

Coffee break - 11:00 – 11:15

Small Angle X-ray Scattering (SAXS) for the study of nano- and biomaterials

Lecture: Dritan Siliqi - 11:15 – 13:15

Lunch break - 13:15 – 15:00

Practical Session 1 - 15:00 – 17:00

Group A: XRPD software, EXPO and structure solution

Tutor: Nicola Corriero

Group B: SAXS software, ATSAS/SasView and colloidal solutions
(from macromolecules to nanoparticles)

Tutor: Dritan Siliqi

Day 2

Practical Session 2 - 09:00 – 11:00

Group A: SAXS software, ATSAS/SasView and colloidal
solutions (from macromolecules to nanoparticles)

Tutor: Dritan Siliqi

Group B: XRPD software, EXPO and structure solution

Tutor: Nicola Corriero

Coffee break - 11:00 – 11:10

Practical Session 3 - 11:15 – 13:15

Group A: XRPD software, QUALX and qualitative/semi-quantitative
data analysis

Tutor: Nicola Corriero

Group B: SAXS software, SunBIM and X-ray imaging

Tutor: Dritan Siliqi

Lunch break - 13:15 – 15:00

Practical Session 4 - 15:00 – 17:00

Group A: SAXS software, SunBIM and X-ray imaging

Tutor: Dritan Siliqi

Group B: XRPD software, QUALX and qualitative/semi-quantitative
data analysis

Tutor: Nicola Corriero

Software for the practical sessions: EXPO, Qualx2, SunBIM, SasView and ATSAS package

All the software can be download after a valid registration and are free of charge for the academic users

Scientific Organisation

Institute of Crystallography – CNR, Bari, Italy

IVODENT Academy

Association of Albanian Crystallographers

Workshop Chairs

Prof. Asoc. Dr. Bujar Dida

President of AAC

Dr. Altin Mele

Center of Techniques Studies,

Ivodont Academy

Participants in the Workshop

Undergraduate or graduate students and
young researchers with interests in
characterization of powders or colloid
nanoparticles