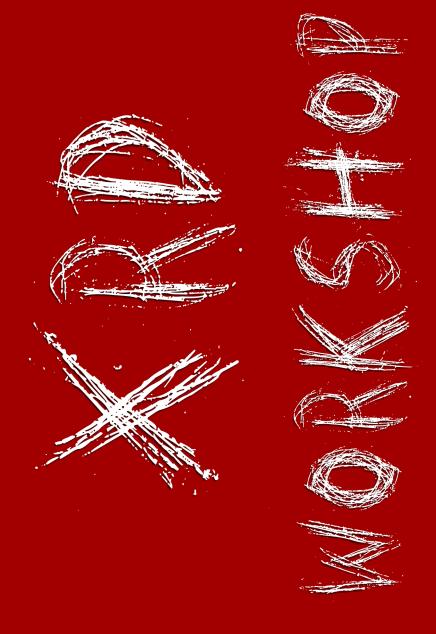
10-11 MARCH 2020

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 (XRDP) 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 Siligi

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, Ivodent Academy

Participants in the Workshop

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

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

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Tutor: Nicola Corriero

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

Tutor: Dritan Siligi

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

