# IAEA training workshop on synchrotron technologies and techniques and their applications

The lectures and Q&A sessions will take place in the training room.

| 23/10/2023 Monday | |
|---|---|
| 8:30 - 8:45 | Welcome<br>L. Gregoratti - Elettra |
| 8:45 - 9:30 | Introduction<br>A. Migliori - IAEA |
| 9:30 - 10:30 | Students presentations |
| *10:30 - 11:00* | *Coffee break* |
| 11:00 - 12:00 | Radiation-matter interaction<br>I.Carlomagno - Elettra |
| *12:00 - 13:30* | *Lunch* |
| 13:30 - 14:30 | Synchrotron radiation<br>G. Aquilanti - Elettra |
| 14:30 - 15:15 | Beamlines: introduction<br>G. Das - Elettra |
| *15:15 - 15:30* | *Coffee break* |
| 15:30 - 16:30 | XRD Theory<br>L. Gigli - Elettra |
| 16:30 - 17:15 | How to write a good proposal<br>I. Carlomagno - Elettra |
| *17:15 - 17:45* | *Break and feedback of the day* |

| 24/10/2023 Tuesday | |
|---|---|
| 9:00 - 9:30 | Q&A |
| 9:30 - 12:30 | Hands on XRD and proposal writing<br>(G1 XRD; G2 proposal) |
| *12:30 - 14:00* | *Lunch* |
| 14:00 - 17:00 | Hands on XRD and proposal writing<br>(G1 proposal; G2 XRD) |
| *17:00 - 17:30* | *Break and feedback of the day* |

| 25/10/2023 Wednesday | |
|---|---|
| 9:00 - 10:00 | XAS theory<br>G. Agostini - Elettra |
| 10:00 - 11:00 | XRF theory<br>A. Migliori - IAEA |
| *11:00 - 11:30* | *Coffee break* |
| 11:30 - 12:30 | XRD applications<br>J. Plaisier - Elettra |
| *12:30 - 13:30* | *Lunch* |
| 13:30 - 14:15 | XAS applications: material science<br>G. Aquilanti - Elettra |
| 14:15 - 15:00 | SR applications in bio-anthropology and heritage sciences<br>Simone Lemmers - Elettra |
| *15:00 - 15:30* | *Coffee break* |
| 15:30 - 16:15 | XRF applications<br>G. Das - Elettra |
| 16:15 - 17:00 | Combined XRF and XAS applications<br>S. Pollastri - UniMoRe |
| *17:00 - 17:30* | *Break and feedback of the day* |

| 26/10/2023 Thursday | |
|---|---|
| 9:00 - 9:30 | Q&A |
| 9:30 - 12:30 | Hands on XAS and XRF beamlines<br>(G1 XAS; G2 XRF) |
| 12:30 - 13:00 | Photo shooting |
| *13:00 - 14:00* | *Lunch* |
| 14:00 - 17:00 | Hands on XAS and XRF beamlines<br>(G1 XRF; G2 XAS) |
| *17:00 - 17:30* | *Break and feedback of the day* |

| 27/10/2023 Friday | |
|---|---|
| 9:00 - 13:00 | Proposals presentations and discussion |
| *13:00 - 14:00* | *Lunch* |
| 14:00 - 14:15 | Farewell |

| | |
|---|---|
| 20:00 | Welcome dinner |