

MONDAY, 26TH JANUARY

10.00-11.30	Registration
11.30-11.50	Opening Ceremony
11.50-12.00	Topic(s): Fundamentals & Roto-vibrational Spectroscopies Story Tellers: <i>Nicola Cioffi, Roberto Felici</i>
12.00-12.40	A unifying vision of the processes underlying surface characterization tools <i>Stefano Agnoli</i>
12.40-13.20	ATR-IR Spectroscopy <i>Emilia Bramanti</i>
13.20-13.30	Discussion
13.30-14.40	Lunch
14.40-15.20	Fundamentals and applications of waveguide-based IR spectroscopy <i>Boris Mizaikoff</i>
15.20-16.00	Raman Spectroscopy <i>Alois Bonifacio</i>
16.00-16.30	IR and Raman Measurements with Integrated Microscopy <i>Tomoyo Tao, Shimadzu</i>
16.30-16.40	Topic(s): Fundamentals – Fluorescence Story Tellers: <i>Massimo Innocenti, Stefano Agnoli</i>
16.40-17.20	Fluorescence Spectroscopy <i>Massimo Bonini</i>
17.20-17.30	Discussion
17.30-18.00	Coffee break
18.00-18.40	Tutorial – ISISMACH <i>Massimo Bonini</i>
18.40-19.20	X-ray Fluorescence <i>Walter Giurlani</i>
19.20-19.50	WDXRF instrumentation <i>Massimo Fogazzi, Assing</i>
19.50-20.00	Discussion
20.30	CHE(ER)SS: Welcome Reception @ Hop! via G. Devitofrancesco 11 Bari

TUESDAY, 27TH JANUARY

08.50-09.00	Topic(s): Scanning Probe Microscopies Story Tellers: <i>Massimo Innocenti, Edvin Lundgren</i>
09.00-09.40	AFM & STM Fundamentals <i>Ulrike Diebold</i>
09.40-10.20	Electrochemical scanning probe microscopies <i>Christine Kranz</i>
10.20-10.50	Spectroscopic investigations via Atomic Force Microscopy: how to obtain electrical, chemical, and mechanical information at the nanoscale <i>Andrea Cerreta, Park</i>
10.50-11.00	Discussion
11.00-11.30	Coffee break
11.30-11.40	Topic(s): Surface and Multimodal Microscopies Story Tellers: <i>Roberto Felici, Emilia Bramanti</i>
11.40-12.20	Surface Optical Reflectance microscopy <i>Edvin Lundgren</i>
12.20-13.00	Scanning Electron Microscopy <i>Maria Josè Lo Faro</i>
13.00-13.20	Surface analysis with optical methods <i>Tunzala Klein, KLA</i>
13.20-13.30	Discussion
13.30-14.40	Lunch
14.40-15.10	Multimodal and Multiscale Microscopy for Advanced Characterization of Materials <i>Davide Garoldini, Zeiss</i>
15.10-15.50	Fundamentals of Electrochemical Impedance Spectroscopy (EIS) <i>Bernhard Elsener (online)</i>
15.50-16.00	Topic(s): Surface Spectrometries Story Tellers: <i>Marzia Fantauzzi, Alberto Vertova</i>
16.00-16.40	Secondary Ion Mass Spectrometry <i>Antonella Rossi</i>
16.40-16.50	Discussion
16.50-17.20	Coffee break
17.20-17.50	Simultaneous dual polarity SIMS instrumentation and applications <i>Graham Cooke, Hiden Analytical</i>
17.50-18.20	Rutherford Backscattering Spectrometry <i>Maria Josè Lo Faro</i>
18.20-18.30	Discussion
18.30-18.50	Grant Certificate Awards
19.30	Poster Session, Drinks & Finger Food

WEDNESDAY, 28TH JANUARY

08.50-09.00	Topic(s): Lab scale X-ray Spectroscopies Story Tellers: <i>Edvin Lundgren, Giuseppe Spoto</i>
09.00-09.30	Interactions of X-rays with Matter <i>Roberto Felici</i>
09.30-10.10	XPS fundamentals <i>Marzia Fantauzzi</i>
10.10-10.50	Auger Spectroscopy, advanced XPS analysis modes <i>Antonella Rossi</i>
10.50-11.00	Discussion
11.00-11.30	Coffee break
11.30-12.00	Future of Depth Profiling in XPS <i>Yahya Zakaria, Thermo Fisher Scientific</i>
12.00-12.10	Topic(s): Data quality & Chemometrics Story Tellers: <i>Emilia Bramanti, Giuseppe Spoto</i>
12.10-12.40	Calibration, metrology and quality of spectroscopic data <i>Antonella Rossi</i>
12.40-13.20	Chemometrics & Spectroscopy <i>Barbara Giussani</i>
13.20-13.30	Discussion
13.30-14.40	Lunch
14.40-14.50	Topic(s): Advanced spectroscopies Story Tellers: <i>Alberto Vertova, Francesco Giannici</i>
14.50-15.20	Surface Plasmon Resonance <i>Giuseppe Spoto</i>
15.20-15.50	Measurement of the Surface Potential <i>Gerardo Palazzo</i>
15.50-16.30	Electrochemical Infrared spectroscopy <i>Joerg Libuda</i>
16.30-16.40	Discussion
16.40-17.10	Coffee break
17.10-17.20	Topic(s): Synchrotron radiation and X-ray Techniques Story Tellers: <i>Luca Gregoratti, Francesco Giannici</i>
17.20-18.00	Introduction to synchrotron radiation <i>Roberto Felici</i>
18.00-18.40	Introduction to X-ray Absorption Spectroscopy <i>Maurizio Benfatto</i>
18.40-19.10	X-ray absorption spectroscopy: instrumentation and examples <i>Maddalena Pedio (online)</i>
19.10-19.20	Discussion
20.30	Social Dinner & Best Poster Award @ 2A classe, via G. Capruzzi 15 Bari

THURSDAY, 29TH JANUARY

09.00-09.10	Topic(s): Photoemission Spectroscopies Story Tellers: <i>Francesco Giannici, Marzia Fantauzzi</i>
09.10-09.50	Introduction to Photoemission Spectroscopy <i>Luca Gregoratti</i>
09.50-10.30	Photoemission spectroscopies/microscopies + NAPXPS <i>Luca Gregoratti</i>
10.30-11.10	Time-resolved Near Ambient pressure XPS <i>Jan Knudsen</i>
11.10-11.20	Discussion
11.20-11.40	Coffee break
11.40-11.50	Topic(s): Spatially coherent x-ray beams Story Tellers: <i>Roberto Felici, Emiliano Fratini</i>
11.50-12.30	X-ray Raman Scattering <i>Francesco Giannici</i>
12.30-13.10	Coherent X-ray imaging <i>Cinzia Giannini</i>
13.10-13.20	Discussion
13.20-14.30	Lunch
14.30-14.40	Topic(s): Neutron Scattering & Reflectometry, X-ray Free-Electron Lasers Story Tellers: <i>Roberto Felici, Massimo Innocenti</i>
14.40-15.20	Introduction to neutron scattering Emiliano Fratini
15.20-15.40	Neutron Reflectometry and GISANS Emiliano Fratini
15.40-16.20	X-Ray Free-Electron Lasers: an introduction to working principles and pulse characteristics <i>Gianluca Geloni</i>
16.20-16.30	Discussion
16.30-17.00	Coffee break
17.00-17.10	Topic(s): Surface diffraction and materials science applications Story Tellers: <i>Edvin Lundgren, Luca Gregoratti</i>
17.10-18.10	Surface X-ray Scattering <i>Alessandro Coati</i>
18.10-18.50	A multi-modal x-ray approach to study materials under harsh conditions <i>Alfred Larsson</i>
18.50-19.00	Discussion
	Free time

FRIDAY, 30TH JANUARY

08.50-09.00	Topic(s): Applications and cases of study Story Tellers: <i>Nicola Cioffi, Emiliano Fratini</i>
09.00-09.40	Laser Induced Breakdown Spectroscopy (LIBS) and Nanoparticle Enhanced LIBS <i>Alessandro De Giacomo</i>
09.40-10.20	Colorimetry and Assessment of Corrosion Resistance <i>Marco Bonechi</i>
10.20-11.00	Tutorial – How to apply for beamtime at large scale facilities
11.00-11.10	Discussion
11.10-11.40	Coffee break
11.40-11.50	Topic(s): Final tests
11.50-13.00	FINAL TESTS
13.00-13.30	Closing Ceremony