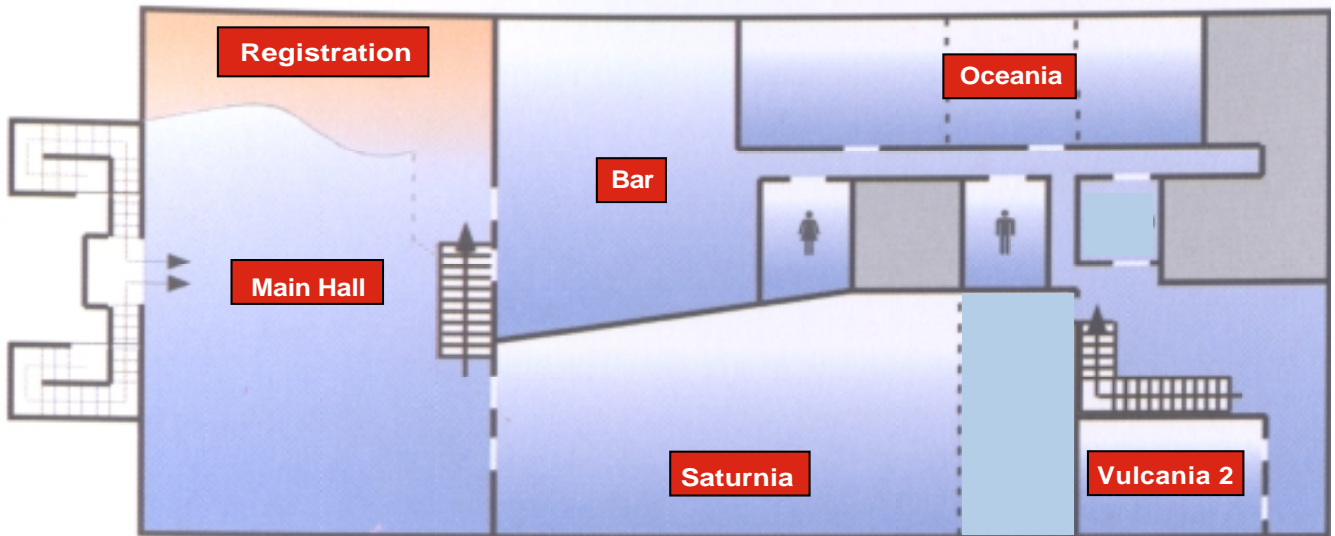
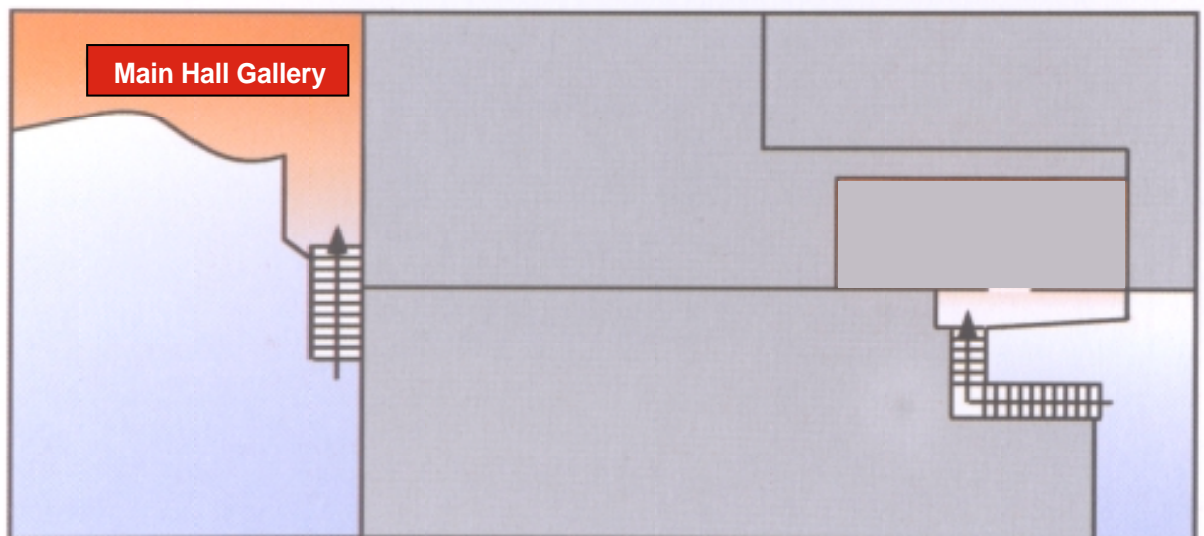


Stazione Marittima Floor Plan

First Floor



Second Floor



Legenda

First Floor

Main Hall	Registration, Scientific Secretariat, Industrial Exhibition
Saturnia	Plenary Sessions
Saturnia/Oceania	Parallel Sessions
Vulcania 2	Poster Sessions

Second Floor

Main Hall Gallery	Terminal Room
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**PROGRAM
MONDAY, July 23**

9:00 – 9:45

OPENING SESSION

(SATURNIA)

Chair: **G. Margaritondo** (EPFL, Lausanne)

9:00 – 9:45 Welcome and Introduction

9:45 – 10:30

PLENARY SESSION

(SATURNIA)

Chair: **G. Margaritondo** (EPFL, Lausanne)

9:45 – 10:30 **O. Björneholm** (Uppsala University): Resonant core level studies of molecules and clusters: electronic structure and femtosecond dynamics.

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

POSTER SESSION 1

(VULCANIA 2)

ATOMIC AND MOLECULAR RESEARCH

12:30 – 2:30

LUNCH

2:30 – 4:30

PARALLEL SESSIONS

SATURNIA

ATOMIC AND MOLECULAR RESEARCH

Chair: **M. N. Piancastelli** (University Tor Vergata, Rome)

2:30 – 3:00 **U. Hergenhahn** (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin): Continuum structures in molecular photoionization.

3:00 – 3:30 **K. Ueda** (Tohoku University, Sendai): Nuclear motion, symmetry breaking and dissociation dynamics of core-excited polyatomic molecules.

3:30 – 4:00 **B. R. Lewis** (The Australian National University, Canberra): Comparative very-high-resolution VUV spectroscopy: laser spectroscopy of O₂.

4:00 – 4:30 **L. Avaldi** (CNR-IMAI, Rome): Spectroscopy and dynamics in the photoionization of neon.

OCEANIA

HIGH RESOLUTION SPECTROSCOPY

Chair: **T. Greber** (University of Zürich)

2:30 – 3:00 **J. N. Andersen** (University of Lund): Simple metals - Simple core levels ?

3:00 – 3:30 **S. Suga** (Osaka University): Recent development in soft X-ray spectroscopy of correlated materials: high resolution absorption and bulk sensitive photoemission.

3:30 – 4:00 **P. Perfetti** (CNR-ISM, Rome): Observation of low dimensional behaviour of electronic structures in one-dimensional In-rows of clean InAs(001)4x2-c(8x2) surface.

4:30 – 5:00

COFFEE BREAK

*SATURNIA*INELASTIC SCATTERING

Chair: **H. Aksela** (University of Oulu)

5:00 – 5:30 **J. E. Rubensson** (Uppsala University):
Fluorescence from doubly excited states of
helium.

5:30 – 6:00 **M. Krisch** (ESRF, Grenoble): X-ray
Raman scattering from low Z materials.

6:00 – 6:30 **C. S. Fadley** (University of California at
Davis): Core-level spectroscopy,
diffraction and holography: recent
developments and future prospect.

*OCEANIA*ADVANCED MATERIAL RESEARCH

Chair: **A. Franciosi** (TASC-INFM, Trieste)

5:00 – 5:30 **L. J. Terminello** (LLNL – University of
California, Livermore): Nanocluster
properties characterized using soft X-ray
spectroscopies.

5:30 – 6:00 **P. Aebi** (University of Fribourg): Angle-
scanned photoemission on switchable
mirrors.

6:00 – 6:30 **E. Di Fabrizio** (TASC-INFM, Trieste):
Novel zone plate doublet for differential
interference contrast microscopy fabricated
by means of electron beam lithography.

**PROGRAM
TUESDAY, July 24**

9:00 – 10:30

PARALLEL SESSIONS

SATURNIA

INTERFACES

Chair: **A. Taleb-Ibrahimi** (LURE, Orsay)

9:00 – 9:30 **G. Le Lay** (CRMC2-CNRS, Marseille): Dynamical effects at the order-disorder reversible phase transitions of Sn and Pb on the Ge and Si(111) surfaces.

9:30 – 10:00 **F. P. Netzer** (Karl-Franzens-Universität Graz): High-resolution core level spectroscopy of “inverse catalyst” surfaces: Probing the metal-oxide interface.

10:00 – 10:30 **R. Imbihl** (University of Hannover): Electrocatalysis at Pt/YSZ Interfaces.

OCEANIA

**COHERENCE TECHNIQUES
& NOVEL SOURCES I**

Chair: **R. P. Walker** (Sincrotrone Trieste)

9:00 – 9:30 **J. Feldhaus** (HASYLAB at DESY, Hamburg): Single pass free electron lasers for short wavelengths: from proof-of-principle experiments to a user facility.

9:30 – 10:00 **I. Lindau** (Lund University and Stanford University): Scientific opportunities with the proposed LCLS at Stanford.

10:00 – 10:30 **E. Gluskin** (Argonne National Laboratory): SASE FEL – toward VUV and X-ray.

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

**POSTER SESSION 2 (VULCANIA 2)
MATERIAL RESEARCH**

12:30 – 2:30

LUNCH

2:30 – 4:30

PARALLEL SESSIONS

SATURNIA

**COHERENCE TECHNIQUES
& NOVEL SOURCES II**

Chair: **V. G. Stankevitch** (RRC Kurchatov Institute, Moscow)

2:30 – 3:00 **M. Murnane** (University of Colorado, Boulder): Control of atoms and molecules using shaped pulses.

3:00 – 3:30 **G. N. Kulipanov** (Budker Institute of Nuclear Physics, Novosibirsk): Diffraction limited fourth generation VUV and X-ray source based on an accelerator-recuperator.

3:30 – 4:00 **M. Marsi** (Sincrotrone Trieste): UV/VUV Free Electron Lasers and applications in material science.

OCEANIA

**BIOLOGICAL APPLICATIONS
AND SOFT MATTER**

Chair: **C. A. Larabell** (University of California at San Francisco)

2:30 – 3:00 **S. P. Cramer** (University of California at Davis and LBNL, Berkeley): X-ray spectroscopy of metals in enzymes – soft or hard ?

3:00 – 3:30 **G. Schneider** (LBNL, Berkeley): Computed tomography of cryogenic cells.

3:30 – 4:00 **C. Jacobsen** (SUNY Stony Brook): Spectromicroscopy of biological and environmental systems at Stony Brook.

4:00 – 4:30 **A. P. Hitchcock** (McMaster University, Hamilton) Soft X-ray microscopy of soft matter - Hard information from two softs.

4:30 – 5:00

COFFEE BREAK

5:00 – 6:30

**POSTER SESSION 3 (VULCANIA 2)
INSTRUMENTATION AND NEW TECHNIQUES
COHERENCE TECHNIQUES AND NOVEL SOURCES**

**PROGRAM
WEDNESDAY, July 25**

9:00 – 10:30

PLENARY SESSION (SATURNIA)

Chair: **R. L. Stockbauer** (Louisiana State University, Baton Rouge)

9:00 – 9:45 **C. A. Larabell** (University of California at San Francisco): Imaging cells using soft X-ray microscopy.

9:45 – 10:30 **R. Wiesendanger** (University of Hamburg): Spin-resolved spectro-microscopy at the atomic level.

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

**POSTER SESSION 4 (VULCANIA 2)
INTERFACES
DYNAMIC PROCESSES**

12:30 – 1:30

MEETING OF THE INTERNATIONAL ADVISORY COMMITTEE

12:30 – 2:30

LUNCH

2:30 – 4:00

PARALLEL SESSIONS

SATURNIA

MICROSCOPY AND SPECTROMICROSCOPY

Chair: **C. Jacobsen** (SUNY Stony Brook)

2:30 – 3:00 **J. Susini** (ESRF, Grenoble): Recent achievements in multi-keV X-ray microscopy.

3:00 – 3:30 **R. Klauer** (SRRC, Hsinchu): Zone-plate-based scanning photoemission microscopy at SRRC: performance and applications.

3:30 – 4:00 **T. Schmidt** (University of Würzburg): Nanospectroscopy using aberration correction: the SMART project.

OCEANIA

**MAGNETIC SYSTEMS
& PHOTON POLARIZATION TECHNIQUES I**

Chair: **C. Carbone** (CNR-ISM, Trieste)

2:30 – 3:00 **F. U. Hillebrecht** (Max-Planck-Institut für Mikrostrukturphysik, Halle): Surface antiferromagnetic order of transition metal oxides studied by photoemission microscopy.

3:00 – 3:30 **G. Schütz** (University of Würzburg): Magnetic X-ray absorption and scattering.

3:30 – 4:00 **M. Sacchi** (LURE, Orsay): Magnetic coupling in thin layers and superlattices investigated by resonant scattering of polarized soft x-rays.

4:00 – 4:30

COFFEE BREAK

4:30 – 6:00

**POSTER SESSION 5 (VULCANIA 2)
MAGNETISM AND PHOTON POLARIZATION TECHNIQUES
INELASTIC SCATTERING
LOW DIMENSIONAL AND CORRELATED SYSTEMS**

PROGRAM
THURSDAY, July 26

9:00 – 10:30

PARALLEL SESSIONS

SATURNIA

MAGNETIC SYSTEMS
& PHOTON POLARIZATION TECHNIQUES II

Chair: **D. Chandesris** (LURE, Orsay)

- 9:00 – 9:30 **F. Nolting** (Paul Scherrer Institut, Villigen and SSRL, Stanford and LBNL, Berkeley): Exploring the ferromagnetic-antiferromagnetic interface using PEEM.
- 9:30 – 10:00 **Z. Q. Qiu** (University of California at Berkeley): Quantum well states and interlayer coupling in magnetic nanostructures.
- 10:00 – 10:30 **J. García Ruiz** (CSIC – University of Saragoza): Lack of atomic charge localization in transition metal mixed valence oxides.

OCEANIA

DYNAMICS AT SURFACES

Chair: **F. P. Netzer** (Karl-Franzens-Universität Graz)

- 9:00 – 9:30 **S. Günther** (University of Hannover): Transport of K on Rh(110) during the catalytic reaction $H_2 + O_2$.
- 9:30 – 10:00 **P. Feulner** (Technical University of Munich): Core excitation induced bond breaking of chemisorbed molecules probed by emission of ions, neutrals and electrons.
- 10:00 – 10:30 **G. Paolucci** (Sincrotrone Trieste): Surface kinetics by fast core-level photoemission.

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

POSTER SESSION 6 (VULCANIA 2)
RELATED THEORY
HIGH RESOLUTION SPECTROSCOPY
ELECTRONIC STRUCTURE

12:30 – 2:30

LUNCH

2:30 – 4:00

PARALLEL SESSIONS

SATURNIA

RELATED THEORY

Chair: **M. A. Van Hove** (LBNL, Berkeley and University of California at Davis)

- 2:30 – 3:00 **M. V. Ganduglia-Pirovano** (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin): Theoretical predictions of oxygen induced surface core-level shifts: a probe of the local overlayer structure.
- 3:00 – 3:30 **S. Baroni** (SISSA and INFN, Trieste): The interaction of ethylene with perfect and defective Ag(001) surfaces.
- 3:30 – 4:00 **H. Ebert** (University of Munich): Theoretical description of the magneto-optical properties of arbitrary layered systems.

OCEANIA

LOW DIMENSIONAL
AND CORRELATED SYSTEMS I

Chair: **S. Suga** (Osaka University)

- 2:30 – 3:00 **X. J. Zhou** (Stanford University): Charge ordering and electronic structure of $(La_{2-x-y}Sr_xNd_y)CuO_4$ stripe phase and $(La_{2-x}Sr_x)CuO_4$ high- T_c superconductors.
- 3:00 – 3:30 **P. D. Johnson** (Brookhaven National Laboratory): Photoemission studies of self-energy effects in high T_c superconductors and other materials.
- 3:30 – 4:00 **M. C. Asensio** (LURE, Orsay and ICMN-CSIC, Madrid): Fermi surface topology and angle-resolved photoemission results of Bi2212 single crystals.

4:00 – 4:30

COFFEE BREAK

4:30 – 5:30

PARALLEL SESSIONS

SATURNIA

**LOW DIMENSIONAL
AND CORRELATED SYSTEMS II**

Chair: **P. D. Johnson** (Brookhaven National Laboratory)

4:30 – 5:00 **D. J. Huang** (SRRC, Hsinchu): Correlation effects on the electronic structure of half-metallic transition metal oxide thin films.

5:00 – 5:30 **A. Damascelli** (Stanford University): Fermi surface of Sr_2RuO_4 by ARPES: a longstanding controversy.

OCEANIA

ELECTRONIC STRUCTURE

Chair: **W. Wurth** (University of Hamburg)

4:30 – 5:00 **T. Greber** (University of Zürich): K-resolved one and two photon photoemission around the Fermi level.

5:00 – 5:30 **K. Horn** (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin): Valence band structure of quasicrystals studied by photoemission: dispersing states and quasi-Brillouin zones.

5:30 – 6:30

BEST POSTERS PRESENTATION

(SATURNIA)

PROGRAM
FRIDAY, July 27

9:00 – 11:15

PLENARY SESSION

(SATURNIA)

Chair: **I. Lindau** (Lund University and Stanford University)

9:00 – 9:45 **E. Bauer** (Arizona State University, Tempe and Sincrotrone Trieste): Spectromicroscopy with the SPELEEM.

9:45 – 10:30 **M. A. Van Hove** (LBNL, Berkeley and University of California at Davis): Advances in the theory of photoelectron diffraction and holography.

10:30 – 11:15 **T. Takahashi** (Tohoku University, Sendai) Progress of high-resolution photoemission spectroscopy in strongly correlated electron systems.

11:15 – 11:45

COFFEE BREAK

11:45 – 12:30

CLOSING SESSION

(SATURNIA)

Chair: **VUV-XIV Chair** (to be announced).

11:45 – 12:30 Concluding remarks and announcement of VUV-XIV.