



NIS Colloquium

Non stoichiometric oxides: growth, properties, characterization and applications

Torino, Friday 12 May 2006

Aula Avogadro – Dip. Chimica IFM – via Giuria,7 – Torino

PROGRAMME

Organizers:

Angelo Agostino - Dipartimento di Chimica Generale ed Organica Applicata, Via P. Giuria 7 and NIS

Carlo Lamberti - Dipartimento di Chimica IFM, Aula Avogadro, Via P. Giuria 7, and NIS

Marco Truccato - Dipartimento di Fisica Sperimentale, Via P. Giuria 1, and NIS

- 9.00-09.10 **Colloquium opening: Carlo Lamberti** - Università di Torino e NIS
Chair 1: **Yuri I. LATHISHEV**, Russian Academy of Science, Inst. Radioengn. & Elect., Moscow, Russia
- 9.10-10.00 **Mikio TAKANO**, Lab. of Advanced Solid State Chemistry, Inst. for Chemical Research, Kyoto University, Japan
Effects of Oxygen Deficiency in SrTiO₃ (shallow d) and SrFeO₃ (deep d)
- 10.10-10.40 **Werner PAULUS**, Magistère Matériaux, Université de Rennes 1, France.
Structural exigencies and reactivity of solids: low temperature oxygen ion conduction in low dimensional perovskite-type oxides"
- 10.45-11.10 Coffee break
Chair 2 **Mikio TAKANO**, Laboratory of Advanced Solid State Chemistry Institute for Chemical Research, Kyoto University, Japan
- 11.10-12.00 **Mark JOHNSON & Helmut SCHOBER**, Institut Laue-Langevin (ILL), Grenoble, France
Ab initio modeling of structural, vibrational and electronic properties of defective oxides
- 12.05-12.20 **Tanguy BERTHIER**, Université de Rennes 1, France & Università di Torino e NIS.
(Sr,Ca)FeO_{3-x}: Crystal growth structure analysis and chemical reactivity
- 12.25-12.55 **Angelo AGOSTINO**, Università di Torino e NIS
Discussion on superconducting properties of non-stoichiometric cuprates whiskers
- 13.00-14.30 Lunch
Chair 3: **Attilio RIGAMONTI** Università di Pavia
- 14.30-15.20 **Yuri I. LATYSHEV**, Russian Academy of Science, Institute of Radioengineering and Electronics, Moscow, Russia.
Interlayer tunneling spectroscopy and dynamics of Josephson vortex lattice in Bi₂Sr₂CaCu₂O_{8+x}
- 15.30-16.00 **Enrico SILVA**, Università di Roma 3, Italy
Microwave properties of superconducting copper oxides
- 16.05-16.30 Coffee break
Chair 4: **Werner PAULUS**, Magistère Matériaux, Université de Rennes 1, France
- 16.30-17.00 **Attilio RIGAMONTI**, Università di Pavia, Italy
Superconducting fluctuating diamagnetism versus precursor diamagnetism in heterogeneous superconductors
- 17.05-17.35 **Luca PELLEGRINO**, CNR-INFN-Lamia, Genova, Italy
Electric Field Effect and Magnetic Nanodevices made of Functional Oxides fabricated by AFM Lithography
- 17.40-18.10 **Marco TRUCCATO**, Università di Torino e NIS
Electric conductivity properties of superconducting perovskitic microcrystals
- 20.00-23.00 Social DINNER: wine and food from Piemonte