

NIS is an inter-departmental Centre composed by >90 researchers from 5 Departments of the University of Torino:

- Chemistry Dept.
- Physics Dept.
- Drug Science and Technology Dept.
- Life Sciences and Systems Biology Dept.
- Earth Science Dept.



“Nanostructured Interfaces and Surfaces”
Inter-departmental Centre – University of Torino



NIS Colloquia 2012-2014

2012

- 14-15 Sept *Structure and function of Cav1.2 and Cav1.3L-type channels*
- 16 Oct *Spectroscopic ellipsometry*
- 30 Nov *Nanostructured antibacterial coatings*

2013

- 31 Jan *DSSC: from materials to devices*
- 15 Feb *Materials for Hydrogen Storage*
- 1 Mar *Micro- and nano-porous metals*
- 10 Jun *Environbons-Photomat: a new strategy for the development of materials for environmental applications*
- 15 Jul *Advanced applications in scanning probe microscopy*
- 1 Oct *Superconducting micro and nanostructures: growth, properties and applications*

Direction

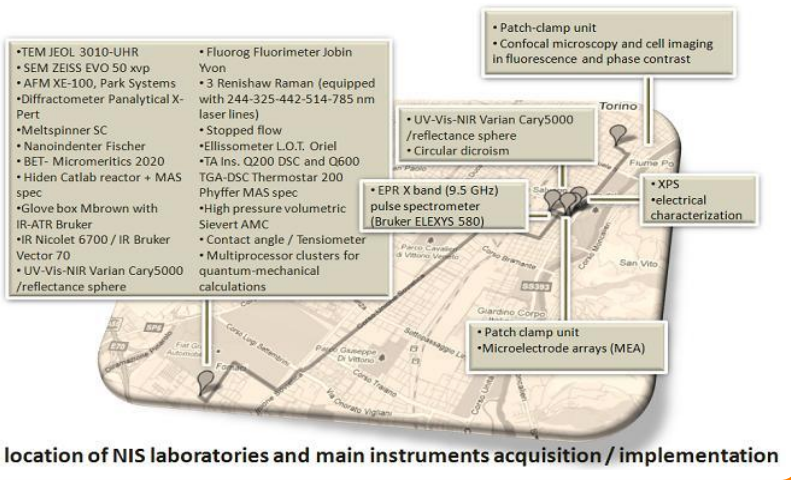
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Supporting Institutions and Projects



2014

- 8 Jan *Time- and space-resolved spectroscopies*
- Jan, TBA *Biomolecules on surfaces: from the synthesis of biopolymers to biomolecular devices*



NIS : Principal Research Platforms



Bio-tech

Biocompatibility and safety

Structure-Activity Relationships (SARs)

Design of safe materials

Screening methods

Toxicity reduction

SiO₂, TiO₂, Bio-glasses, Graphene

Biosensing

SiO₂-based optical imaging

Diamond-based biosensors

Molecular biosensors

Biomaterials

Bio-glasses

Hydroxyapatites

Mesoporous Si

Polymers

Carbon nanotubes

Energy and Clean Tech

Energy

H production and storage

Power 2 gas / liquid
Gas 2 liquid

Photovoltaic

Artificial photosynthesis

Energy storage

Chemistry

CO₂ capture and use

Hydro-de-sulfurization

Selective catalysis

Environment

Air, water/soil cleaning

Biomass conversion

Transport

Aerospace

Ablative materials for space exploration

MRI and space-related magnetic shields

Flame retardant nanocomposites

Materials for additive manufacturing

Porous carbon-oxide composites

Automotive

Thermoelectric materials

Hybrid materials as anodes

Carbon-carbon conductive and piezoresistive composites

Nanostructured magnets

HS automotive steels

Wear in brake pads and discs