

## 2<sup>nd</sup> EULASUR SUMMER SCHOOL and WORKSHOP

### Simulation, Characterization and Optical methods for Materials and Nano Materials (Multifunctional Ceramics and Hybrids Materials)

September 4 to 9, 2011. La Plata, Argentina

#### PROGRAMME

##### Sunday, 4<sup>th</sup> September

18:00 – 20:00 hs      Registration of Participants

##### Monday, 5<sup>th</sup> September

9:00h    **Opening Ceremony** (*Auditorium*)

- Academic and local Authorities
- International Members of Advisory Committee
- EC officers
- Coordinator of EULASUR
- Director of Summer School

9:30h    **Hybrid Materials: an overview** (*Auditorium*)

- Sara Aldabe Bilmes (INQUIMAE, Argentina)

---

10:30h    COFFEE BREAK

---

11:00h    **Introduction to atomistic simulation methods and freely available tools** (*Auditorium*)

- Javier Junquera (Santander, Spain)

---

12:30h    LUNCH

---

14:00h    **Theory and simulations of ferroelectric materials** (*Auditorium*)

- Marcelo Sepiarsky (IFIR, Argentina)

14:30h-17:00h    ***Innovation Workshop project exercises by Copenhagen Business School***  
(Room A)

15:15h    **Theory and simulations of magnetoelectric materials** (*Auditorium*)

- Jorge Íñiguez (ICMAB, Spain)

---

16:30h    COFFEE BREAK

---

17:00h **Poster presentations**

**Tuesday, 6th September**

9:00h **Monte Carlo methods for disordered systems** (*Auditorium*)

- Tomás Grigera (INIFTA, Argentine)

10:00h **Simulation of electronic properties at the nanoscale** (*Auditorium*)

- Carlos Balseiro (IB CNEA, Argentine)

---

11.00h COFFEE BREAK

---

11:30h **Ferroelectric materials: key functionalities and recent advances** (*Auditorium*)

- Mario Maglione (ICMCB, France)

---

12.30h LUNCH

---

14:00h **TEM characterization for nanomaterials** (*Auditorium*)

- Jerome Majimel (ICMCB, France)

14:30h-17:30hs ***Innovation Workshop project exercises by Copenhagen Business School***  
(Room A)

15:00h **Solid state NMR** (*Auditorium*)

- Christian Bonhomme (UPMC, France)

---

16:00h COFFEE BREAK

---

16.30h **Oxyfluorides and superconductivity** (*Auditorium*)

- Manuel Gaudon (ICMCB, France)

17:30h **Poster presentations**

**Wednesday, 7<sup>th</sup> September**

9.00h **Material characterization by X-ray crystallography** (*Auditorium*)

- Jordi Rius (ICMAB, Spain)

9:00h-11:00hs **Innovation Workshop project exercises by Copenhagen Business School**  
(Room A)

10.00h **Soft Materials Characterization Using Synchrotron Radiation Techniques**  
(Auditorium)

- Marcelo Ceolin (INIFTA, Argentina)

---

11.00h COFFEE BREAK

---

11:30h **Informal meeting: interchange Programs for Students** (Auditorium)

- José Luis Briansó Peñalva (UAB, Spain)

---

12.30h LUNCH

---

Free Afternoon

### **Thursday 8<sup>th</sup> September**

9.00h **Methodological advances in powder diffraction** (Auditorium)

- Jordi Rius (ICMAB, Spain)

10:00h **Non-linear optics methods with femtosecond lasers** (Auditorium)

- Jorge Tocho (CIOP, Argentina)

---

11.00h COFFEE BREAK

---

11.30h **Order-Disorder Interplay in the High Energy Optical Response of 3D Photonic Crystals** (*Auditorium*)

- Ricardo Depine (UBA, Argentina)

---

12.30h LUNCH

---

14:00h **How can luminescence give information on material structure?** (*Auditorium*)

- Alain García (ICMCB, France)

14:30h-17:30hs ***Innovation Workshop project exercises by Copenhagen Business School*** (*Room A*)

15:00h **Raman scattering as a probe of ferroelectric order and excitations in nanostructures** (*Auditorium*)

- Alex Fainstein (CAB-IB, Argentina)

---

16.00h COFFEE BREAK

---

16.30h **Scanning near-field microscopy: Fundamentals & applications** (*Auditorium*)

- Alejandro Goñi (ICMAB, Spain)

17:30h **Poster presentations**

---

20:30h GALA DINNER

---

### **Friday 9<sup>th</sup> September-09**

9:00h **Advances in EULASUR WP3 activities** (*Auditorium*)

- José Luis Briansó Peñalva (UAB, Spain)

10:00h **Technology transfer processes** (*Auditorium*)

- Susana Garelik (ICMAB, Spain)

---

11.00h COFFEE BREAK

---

11:30h **Tolket: the missing link** (*Auditorium*)

- Oscar Martínez (UBA, Argentina)

---

12.30h LUNCH

---

14:00h **Results of Innovation Project Exercises** (*Auditorium*)

- Leif-Bloch Rasmussen and Janni Nielsen (CBS, Denmark)

15.00h **Round Table and Conclusions** (*Auditorium*)