

MONDAY SEPTEMBER 5 – ROOM U4-8	
8.15	STUDENT REGISTRATION
9.00	SCHOOL OPENING
9.45	Materials and nanomaterials for optoelectronic and photovoltaic applications – P. Miska, Université de Lorraine
10.30	COFFEE BREAK
11.00	Inorganic thin film solar cells based on Earth–abundant elements – S. Binetti, University of Milano-Bicocca
11.45	Substitution of critical raw materials in lighting systems - P. C. Ricci, University of Cagliari
12.30	Risk perception and science communication – A. Cerroni, University of Milano-Bicocca
13.15	LUNCH
14.30	Modern electronic structure theory in predicting new materials with tailored properties – G.F. Pacchioni, University of Milano-Bicocca
15.15	Nanostructured PEDOT:PSS electrodes for ITO substitution to realize efficient optoelectronic devices – G. Nenna, ENEA
16.00	COFFEE BREAK
16.30	Scattering layers of recycled nanocomposite: application of radiative transport theory and optical characterization – G. Nenna, ENEA
17.15	DISCUSSION AND QUESTIONS
18.00	

TUESDAY SEPTEMBER 6 – ROOM U4-8	
9.00	Contexts and challenges related to materials substitution for energy : towards cost-effective functional materials – David Munoz-Rojas, Grenoble Institute of Technology
9.45	Fundamentals of integrated optics and their consequences for materials selection – J.E. Broquin , Grenoble Institute of Technology
10.30	COFFEE BREAK
11.00	Reactive magnetron sputtering : synthesis of oxides and nitrides for energy conversion and storage J.F. Pierson, Université de Lorraine
11.45	Polymeric microlenses from inkjet printing technique for optoelectronic applications – G. Nenna, ENEA
12.30	ORAL PRESENTATIONS BY STUDENTS
13.15	LUNCH
14.30	Substitution global approaches in the field of New Technology for Energy – E. Bouyer, CEA
15.15	Transparent and conductive materials: from fundamental to applications (solar cells, lighting, displays, ...) - Daniel Bellet, Grenoble Institute of Technology
16.00	COFFEE BREAK
16.30	VISIT OF UNIVERSITY LABS
17.30	

WEDNESDAY SEPTEMBER 7 – ROOM U4-8	
9.00	Wide band gap semiconductor nanowires: growth, properties and applications - V. Consonni, Grenoble Institute of Technology
9.45	Business models: overviews and application - F. Ceruti, University of Milano-Bicocca
10.30	COFFEE BREAK
11.00	Piezoelectric nanowires for mechanical to electrical energy transduction – G. Ardila, Grenoble Institute of Technology
11.45	DISCUSSION AND QUESTIONS
12.30	LUNCH
14.00	EXCURSION AND SOCIAL DINNER

THURSDAY SEPTEMBER 8 – ROOM U4-8	
9.00	Nanostructured solar cells for reduced use of materials - V. Consonni, Grenoble Institute of Technology
9.45	Photovoltaics in Organic Chemistry – V. Alcazar, Universidad Politecnica de Madrid
10.30	COFFEE BREAK
11.00	ORAL PRESENTATIONS BY STUDENTS
11.45	Physical vapor deposition : chemistry, economics and examples of synthesis of transparent electrodes and metal-dielectric nanocomposites for energy applications - David Horwat, Université de Lorraine
12.30	Substitution of critical metals in fuel cells – E. Mamut, Ovidius University of Constanta
13.15	LUNCH
14.30	What is a resource in cultural, social and political terms? A brief introduction to the Anthropology of Environment and Resource Management – M. Van Aken, University of Milano-Bicocca
15.15	Environmental conflicts and cultural dynamics around rare minerals' extraction. Perspectives from the global South – L. D'Angelo, University of Milano-Bicocca
16.00	COFFEE BREAK
16.30	Direct laser writing of optical functionalities in glasses tailored with photosensitive agents, A. Royon, Argolight
17.15	DISCUSSION AND QUESTIONS
18.15	

FRIDAY SEPTEMBER 9 – ROOM U4-8	
9.00	Advanced materials design for high-end applications in electronic markets – L. Dalencon, Solvay
9.45	Luminescence and local environment: how can the emitting color be controlled? – V. Jubera , Université de Bordeaux
10.30	COFFEE BREAK
11.00	Concentrated Solar Power systems as an alternative to the PV systems – E. Mamut, Ovidius University of Constanta
11.45	Optimal Flow Patterns in Cooling Systems for Solar Panels – L. Oancea, S.C. ET Innovative Solutions SRL
12.30	ORAL PRESENTATIONS BY STUDENTS
13.15	LUNCH
14.30 - 16.30	VISIT TO INDUSTRIAL SITE – PRYSMIAN GROUP

SATURDAY SEPTEMBER 10 – ROOM U7-15	
9.00	Materials for ionizing radiation detection: characteristics and requirements - A. Vedda, University of Milano-Bicocca
9.45	Company view on the R&D, technology transfer and market in the scintillation field – K. Blazek, Crytur spol.s r.o (Czech Republic)
10.30	COFFEE BREAK
11.00	R&D trends in single crystal and ceramic scintillators: Chances for rare earth-free materials? - M. Nikl, Academy of Science, Prague
11.45	Tailoring the composition and structural features to design new inorganic UV absorbers – A. Demourgues, Université de Bordeaux
12.30	Optical glass and Glass Ceramics for existing and novel optical functionalities – T. Cardinal, Université de Bordeaux
13.15	CLOSING OF THE SCHOOL