

**Program - LE STUDIUM® CONFERENCE**  
**Frontiers in Nanomaterials for Energy Harvesting and Storage**  
**August 27th-29th, 2018 at Hotel de Ville, Tours**

Hours	Events	Title	Speaker
<b>Monday, August 27th</b>			
12:30 - 14:00	<b>Welcome Lunch / Registration</b>		
14:00 - 14:30	<b>Official opening</b>	Emmanuel LESIGNE, Vice-President University of Tours Marc LETHIECQ, Director of GREMAN LE STUDIUM Loire Valley Institute for Advanced Studies	
<b>Mechanical energy harvesting (1/2)</b>			<b>Chair : Pr Ow-Yang</b>
14:30 - 15:00	Invited	Flexible and Non-Flexible Materials for Energy Harvesting	Pr Willander
15:00 - 15:30	Invited	High potential of III-Nitride nanowires for piezoelectric energy harvesting: Towards wireless sensors	Dr Gogneau
15:30 - 16:00	Invited	Photoluminescence investigation of deep level defect states in ZnO nanorods	Pr Mirabella
16:00 - 16:20	<b>Coffee</b>		
<b>Mechanical energy harvesting (2/2)</b>			<b>Chair : Pr Willander</b>
16:20 - 16:50	Invited	Energy harvesting sensor systems – Challenges and opportunities	Pr Rusu
16:50 - 17:10	Oral	An efficient tool for modelling piezoelectric cantilevers used for mechanical energy harvesting	Mr Hoang
17:10 - 17:40	Invited	From MEMS to nanogenerators, how to harvest energy from ambient vibrations	Dr Murillo
17:50 - 18:20	<b>Energy harvesting demos</b>		
18:30 - 19:30	<b>Public Lecture in French : "Réduire la taille des matériaux pour une meilleure efficacité énergétique" by Pr Maglione</b>		
20:00	<b>Wine &amp; cheese cocktail</b>		

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Hours	Events	Title	Speaker
Tuesday, August 28th			
8:40 - 09:00	Welcome coffee		
Ferroelectric, multiferroic, functional materials (1/2)			Chair : Dr Ursic
09:00 - 09:30	Invited	Universal behavior of BCTZ ceramics, thin films and single crystals	Pr Maglione
09:30 - 09:50	Oral	Enhanced functionalities in epitaxial oxide thin films on silicon by combining physical and chemical processes	Dr Vila-Fungueirino
09:50 - 10:20	Invited	Towards sustainable manufacture of functional materials and devices	Pr Dorey
10:20 - 10:40	Coffee		
Ferroelectric, multiferroic, functional materials (2/2)			Chair : Pr Dorey
10:40 - 11:10	Invited	Imaging and manipulation of ferroelectric domain walls by piezoresponse force microscopy	Dr Ursic
11:10 - 11:30	Oral	Band structure tuning via interface chemical modulation in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> /Pt junctions	Dr Wolfman
11:30 - 12:00	Invited	Perovskite nanocrystals with different dimensionalities: From synthesis and full characterization to light applications	Pr Mohammed
12:00 - 13:30	Lunch		
Solar energy harvesting (1/2)			Chair : Pr von Hauff
13:30 - 14:00	Invited	Tailoring plasmonic response in metal/oxide nanosystems	Dr Benedetti
14:00 - 14:20	Oral	High-efficiency indoor light-harvesting for self-powered wireless sensors	Dr Mathews
14:20 - 14:50	Invited	Nanoscale engineering of materials for zero-energy consumption lighting	Pr Ow-Yang
14:50 - 16:00	Poster Session - Coffee		
Solar energy harvesting (2/2)			Chair : Pr Rusu
16:00 - 16:30	Invited	Organic and hybrid materials for energy conversion	Pr von Hauff
16:30 - 16:50	Oral	Carbazole Hole transporting materials for hybrid solar cells	Dr Schmaltz
16:50 - 17:20	Invited	Flexo-Photovoltaic Effect	Dr Kim
19:30	Social dinner - Atelier Lebeau		

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Hours	Events	Title	Speaker
Wednesday, August 29th			
8:40 - 09:00	Welcome Coffee		
Thermoelectric generators			Chair : Pr Mirabella
09:00 - 09:20	Oral	Research on thermoelectric microgenerators based on Si and SiGe nanowires as thermoelectric material	Dr Fonseca
09:20 - 09:40	Oral	Improvement of thermal Properties of transparent conducting oxide ceramics by nanostructuring for thermoelectrics applications	Dr Giovannelli
09:40 - 10:00	Oral	Thermoelectric CrN: from n-type to p-type semiconductor behavior	Dr Le Febvrier
10:00 - 10:20	Oral	Alternative low work function thin film materials for nonconventional thermoelectric micro/nanogenerators	Mr Zhu
10:20 - 10:50	Coffee		
Biofuel cells, Energy storage			Chair : Dr Murillo
10:50 - 11:20	Invited	Gold nanoparticles: Application in hybrid biofuel cells for energy conversion	Dr Tingry
11:20 - 11:40	Oral	Supercapacitive properties of Ni-based nanostructures grown by chemical bath deposition	Mr Urso
11:40 - 12:00	Oral	Free-standing Si nanostructures for Li-ion battery anode application	Dr Defforge
12:00 - 12:30	Closing remarks		