

## JNRSE 2019

Hours	Events	Title	Speaker, authors
<b>Thursday, May 23th</b>			
8:45 - 9:15	Welcome / Registration		
9:15 - 9:45	Official opening	Jean-Marie Castelain, CEO, INSA Centre Val de Loire Frédéric Kratz, Research Director, INSA Centre Val de Loire Franck Levassort, Deputy Director, GREMAN	
Session: Energy storage		Chairs : Thomas DEFFORGE, Guylaine POULIN-VITTRANT	
9:45 - 10:25	Invited 1	Tiny solid state lithium microbatteries for medical devices	Raphaël SALOT, CEA-LETI
10:25 - 11:05	Invited 2	Novel Ni-based nanostructures for hybrid supercapacitors	Mario URSO, CNR-IMM & University of Catania
11:05 - 11:30	Coffee break		
Session : Wireless power transfer		Chairs : Noureddine BOUHADDI, Kevin NADAUD	
11:30 - 11:50	Talk 1	Design of a Low Power Energy Harvester for RF Wireless Power Transfer Systems at 5.8 GHz	Mariem KANOUN, David Cordeau, Jean-Marie Paillot, Hassene Mnif, Mourad Loulou
11:50 - 12:10	Talk 2	DC Voltage Improvement of a 2.4-GHz Rectifier using Multisine Signals	Viet-Duc PHAM, Hakim TAKHEDMIT and Laurent CIRIO
12:10 - 12:30	Talk 3	RF Dickson Voltage Multiplier with Dynamic Back Gate Bias	Mohamad AWAD, Philippe Benech and Jean-Marc Duchamp
12:30 - 13:45	Lunch		
13:45 - 14:45	Coffee - Poster Session - JNRSE Live		
Session : Solar and thermal energy harvesting		Chairs : Skandar BASROUR, Fabien GIOVANNELLI	
14:45 - 15:25	Invited 3	Technology and capabilities of thin silicon solar cells for low light energy harvesting	Anne LABOURET, SOLEMS S.A.
15:25 - 15:45	Talk 4	Hybrid Ni-free 3D graphene/polyporphyrin with improved electron-transfer for light-harvesting	Martina USSIA, Mario URSO, Maria MIRITELLO and Sabrina Carola CARROCCIO
15:45 - 16:25	Invited 4	Thermoelectric oxides: materials and generators	Armin FELDHOFF, Institute of Physical Chemistry and Electrochemistry, Leibniz Universität Hannover
16:25 - 16:45	Coffee - Poster Session		
Session : Thermal energy harvesting		Chairs : Philippe BASSET, Fabien GIOVANNELLI	
16:45 - 17:25	Invited 5	Microwatt silicon thin-films thermoelectric harvesters	Jean-François ROBILLARD, IEMN
17:25 - 18:05	Invited 6	Nanostructuring and thermoelectricity	Konstantinos TERMENTZIDIS, CETHIL
18:05	End of first day		
18:30	Cocktail at Blois city hall		

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Friday, May 24th			
8:15 - 08:45	Welcome coffee		
Session : Functional materials for multi-source energy harvesting / Mechanical energy harvesting		Chairs : Skandar BASROUR, Philippe BASSET	
8:45 - 9:25	Invited 7	Piezoelectric and pyroelectric materials and structures for energy harvesting	Chris BOWEN, Univ. of Bath
9:25 - 9:45	Talk 5	Vibration energy harvester based on a stainless steel cantilever with screen-printed PZT: SPS route	Maria Isabel RUA-TABORDA, Catherine ELISSALDE, U-Chan CHUNG, Alexis BRENES, Elie LEFEUVRE and H��l��ne DEBEDA
9:45 - 10:05	Talk 6	Synergistic effects of BaTiO <sub>3</sub> /MWCNT as fillers on the electrical performance of triboelectric generator based on PDMS composite films	Shan FENG, Hanlu ZHANG, Delong HE , Yiguo XU, Anne ZHANG, Yu LIU, Jinbo BAI
10:05 - 10:50	Coffee - Poster Session		
Session : Mechanical energy harvesting		Chairs : H��l��ne DEBEDA, Maxime BAVENCOFFE	
10:50 - 11:10	Talk 7	Highly-coupled PZT-based vibration energy harvester for broadband applications	David GIBUS, Pierre GASNIER, Adrien MOREL , Sebastien BOISSEAU and Adrien BADEL
11:10 - 11:30	Talk 8	Enhancement of the performances of an electromagnetic device for vibration energy harvesting by nonlinear dynamics and energy localization	Kaouthar AOUALI, Najib KACEM, Elyes MRABET, Nouredine BOUHADDI and Mohamed HADDAR
11:30 - 11:50	Talk 9	A self-powered integrated solution for frequency tuning of piezoelectric energy harvesters	Adrien MOREL, Anthony QUELEN, David GIBUS, Ga��l Pillonnet and Adrien BADEL
11:50 - 12:10	Talk 10	Energy Harvesting for TPMS from an Energy Point of View	Maxim GERMER and Uwe Marschner
12:15 - 13:40	Lunch		
Session : Functional materials for multi-source energy harvesting / Low power electrical energy conversion		Chairs : Elie LEFEUVRE, Adrien BADEL	
13:40 - 14:20	Invited 8	A multi-functional photo-ferroelectric ceramic for multi-source energy harvesting and sensing with only one component	Yang BAI, Microelectronics Research Unit, Univ. of Oulu
14:20 - 15:00	Invited 9	Energy Harvesting from multiple sources	Henrik ZEISSIN, Fraunhofer Institute for Integrated Circuits IIS
15:00 - 15:15	Best presentation and best poster awards		
15:15 - 15:30	Conference closing		

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**POSTERS**

	<b>Title</b>	<b>Authors</b>
1	Acoustic power transfer through metal walls : an efficient characterization method based on impedance matrix determination	Olivier FREYCHET, François FRASSATI, Sébastien BOISSEAU and Ghislain DESPESE
2	Preparation of 3D electrodes for micro-supercapacitors by spin-coating based on pseudo-faradic materials	Marie GABARD, David CHOUTEAU, Virginie GRIMAL, Rachele OMNEE, Encarnacion RAYMUNDO-PINERO and Nathalie POIROT
3	Numerical and experimental study of thinned-bulk piezoelectric harvesters	Thien Hoang, Maxime Bavencoffe, Guillaume Ferin, Franck Levassort, Claire Bantignies, An Nguyen-Dinh, Marc Lethiecq, Guylaine Poulin-Vittrant
4	Substrate Capacitance Calculation in Linear Motion-Driven Electrostatic Kinetic Energy Harvester	Naida HODZIC, Thierry ALVES, Jean-Marc LAHEURTE and Philippe BASSET
5	Works at AS2M department of FEMTO-ST on optimization for piezoelectric energy harvesting	Abbas HOMAYOUNI-AMLASHI, Thomas SCHLINQUER, Neetu KUMARI, Abdenbi MOHAND-OUSAIID and Micky RAKOTONDRABE
6	Challenges of low-temperature synthesized ZnO nanowires and their integration into nanogenerators	Camille JUSTEAU, Abhishek S. DAHIYA, Kevin NADAUD, Sarah BOUBENIA, Taoufik SLIMANI TLEMCANI, Chandrakanth Reddy CHANDRAIAHGARI, Daniel ALQUIER, Guylaine POULIN-VITTRANT
7	System-level parameter estimation of magnetoelectric transducers for wireless power transfer	Ali KOTEICHE, Alexis BRENES, Kevin MALLERON and Gerard SOU
8	Investigation on a Low Frequency Electrostatic Harvester with High Out-of-plane Translation	Bilel MAAMER, Skandar BASROUR and Fares TOUNSI
9	Charge compensation and ionic conductivity in the (MgCoCuNiZn) <sub>1-x</sub> Li <sub>x</sub> O <sub>1-δ</sub> high entropy oxides	N. Osenciat, D. Bérardan, D. Dragoë, B. Léridon, S. Holé, A.K. Meena, S. Franger, N. Dragoë
10	FDSOI 28 nm Rectifiers for RF Energy Harvesting	Edouard ROCHEFEUILLE, Tân-Phu VUONG, Frédéric ALICALAPA, Alexandre DOUYERE and Pierre-Oliver LUCAS-DE-PESLOUAN
11	Scope and outcomes of the ENSO project	Raphaël SALOT, Ramon JANE, Daniel ALQUIER and Guylaine POULIN-VITTRANT
12	Processing and characterization of printed AgPd/PZT/AgPd microdisks for piezoelectric vibration energy harvesters	Onuma SANTAWITEE, Chanchana THANACHAYANONT, Jerome BERNARD, and Hélène DEBEDA
13	Influence of the synthesis parameters on hydrothermally grown ZnO nanowires dedicated to mechanical energy harvesting	Taoufik SLIMANI TLEMCANI, Camille JUSTEAU, Kevin NADAUD, Guylaine POULIN-VITTRANT, Daniel ALQUIER
14	Characterization of the Solar Cells Under the Real Conditions	Jakub SVATOS and Jan HOLUB
15	A new DC-DC piezoelectric Converter	Mustapha TOUHAMI, Benjamin POLLET, Ghislain DESPESE and François COSTA
16	Strategy to optimize the output power of an electret kinetic energy harvester by adjusting the waiting time	Hanlu ZHANG, Shan FENG, Delong HE and Jinbo BAI