

**PROGRAM - Scientific Day LMGP : 1<sup>st</sup> october 2020 –Auditorium Phelma Minatec**

**1<sup>st</sup> year PhD**

9 :00	<b>Akbari MASSOUD</b>	Open-air fabrication of oxide based cantilever gas sensors
9:15	<b>Laetitia BARDET</b>	Fundamental aspects and device integration of silver nanowire networks
9:30	<b>Olfa KARKER</b>	Realization and optimization of SiC-based nanowires Electrical Field Effect (NWFETs) biosensors for direct electrical detection of molecules
9:45	<b>Sylvain BOUCHEUX</b>	Dynamic modeling of hydrogen absorption into hydrogen storage materials under different pressure and temperature conditions
10:00	<b>Ibtihel MARZOUK</b>	New generation of optical chemical sensors: Fluorescent architecture channel waveguide / diffraction grating developed by sol-gel.

10 :45	<b>Petros Abi younes (Visio)</b>	<i>Atomic-level control over ultrathin 2D layers of Transition Metal Dichalcogenides obtained by Molecular Layer Deposition route</i>
11 :00	<b>Alexandre DIEULESAINT</b>	Study of the polarity-related properties of well-ordered ZnO nanowires for piezoelectric devices: the question of defects and hydrogen
11 :15	<b>Thoai-Khanh KHUU</b>	New analogue-type resistive switching memories for artificial synapse applications
11 :30	<b>Ragnar JONSSON</b>	Ceria based resistive switching devices deposited by ALD
11 :45	<b>Mathilde RODRIGUEZ</b>	Interactions entre médicaments biologiques et matériaux à usage médical

**2<sup>nd</sup> year PhD**

13 :00-13 :20	<b>Rony Midahuen</b>	Silicon nanowires FET for pH monitoring and DNA sensing.
13 :20- 13 :40	<b>Tabassom Arjmand</b>	Semiconductor nanonets based on silicon nanowires for flexible electronics
13 :40- 14 :00	<b>Chiara Crivello</b>	Spatial Molecular Layer Deposition of Metal-Organic Frameworks thin films
14 :00-14 :20	<b>Abderrahime Sekkat</b>	Architected and flexible structure for building integrated photovoltaics
14 :20-14 :40	<b>Lorenzo Bottiglieri</b>	Optimized stoichiometry for CuCrO2 thin films as Sustainable and semi-transparent Hole Transparent Layer in performant and recyclable organic solar cells
14:40-15 :00	<b>Hong Huy Tran</b>	Multifunctional composite films with vertically aligned ZnO nanowires by leaching-enabled capillary rise infiltration

15 :30-15 :50	<b>Quang Chieu Bui</b>	Development of ZnO Thin Films and Nanowires with Controlled Doping for their Integration in Piezoelectric Devices on Silicon"
15 :50 -16 :10	<b>Guislain Hector</b>	All-oxide Heterostructures for UV Photodetector
16 :10-16 :30	<b>José Villafuerte Diaz</b>	Highly Resistive ZnO Nanowire Arrays for Flexible Sensors Adapted to Biological Media
16 :30-16 :50	<b>Carlos Moncasi</b>	Structure–property relations for manganite memristive devices
16 :50-17 :10	<b>Maxime Barbier</b>	Magnetically-Ordered-Rare-Earth MAX phases