



## Programme Journées Scientifiques

Université de Rouen Normandie – UFR Sciences & Techniques – Site du Madrillet

Mardi 13 juin 2023

<b>09h00</b>	<i>Accueil + remise des badges + café</i>
<b>09h30 – 10h00</b>	Politique et bilan LabEx EMC <sup>3</sup> <i>Antoine Maignan et Armelle Cessou</i>
<b>10h00 – 10h30</b>	Présentation et bilan de la Graduate School Materials & Energy Sciences <i>Antonella Esposito</i>
<b>10h30 – 11h00</b>	<i>Pause café autour des posters</i>
<b>11h00 – 12h00</b>	<b>Présentations des doctorants LabEx EMC<sup>3</sup> - Thèses 2020 (6 x 10min)</b>
<b>12h00 – 14h00</b>	<i>Cocktail déjeunatoire autour des posters</i>
<b>14h00 – 15h00</b>	<b>Prof. Jean-François GERARD</b> Directeur-adjoint Scientifique de l'Institut de Chimie CNRS, Responsable du PEPR « Recyclabilité, recyclage et réincorporation des matériaux recyclés » Laboratoire Ingénierie Matériaux Polymères (IMP) UMR 5223 – INSA Lyon
<b>15h00 – 15h15</b>	<i>Pause café</i>
<b>15h15 – 16h30</b>	<b>Présentations des doctorants LabEx EMC<sup>3</sup> - Thèses 2020 (7 x 10min)</b>
<b>16h30 – 17h00</b>	Vote et remise du prix de la <b>Meilleure Présentation Doctorant LabEx EMC<sup>3</sup></b>

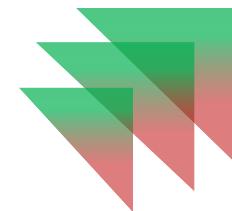
Mercredi 14 juin 2023

<b>09h00</b>	<i>Accueil + remise des badges + café</i>
<b>09h30 – 09h40</b>	Introduction de la journée <i>Antonella Esposito</i>
<b>09h40 – 10h40</b>	<b>Prof. Benoît LAIGNEL</b> Vice-Président DDRS Université Rouen Normandie, Expert GIEC International, Président GIEC Normandie et Métropole de Rouen Normandie Enseignant-chercheur en Géosciences et Environnement Laboratoire Morphodynamique Continentale et Côtière (M2C) UMR 6143
<b>10h40 – 11h00</b>	<i>Pause café</i>
<b>11h00 – 12h15</b>	<b>Présentations des doctorants - Alumni GS-MES (5 x 15min)</b>
<b>12h15 – 14h00</b>	<i>Cocktail déjeunatoire autour des posters</i>
<b>14h00 – 15h30</b>	<b>Présentations des étudiants M2 GS-MES - Promotion Ghez-De Broglie (15 x 5min)</b>
<b>15h15 – 15h45</b>	<i>Pause-café autour des posters et derniers votes</i>
<b>15h45 – 16h45</b>	<b>Présentations des doctorants - Alumni GS-MES (4 x 15min)</b>
<b>16h45 – 17h00</b>	Décompte des votes, remise des prix GS-MES <b>(Meilleure Présentation Orale GS-MES, Meilleur Poster GS-MES)</b>
<b>17h15 – 17h30</b>	Bilan et clôture des journées scientifiques



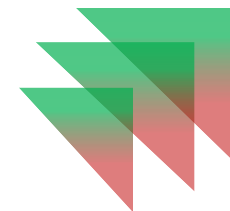
Le LabEx EMC<sup>3</sup> et la GS-MES remercient l'ANR, la Région Normandie et l'Université de Rouen Normandie pour le soutien financier et logistique.





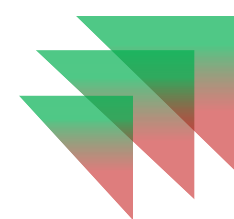
**Mardi 13 juin 2023 – Présentations des doctorants LabEx EMC<sup>3</sup> (11h00-12h00 // 15h15-16h30)**

NOM Prénom	Projet	Titre	Horaire
<b>LETHEUX Geoffrey</b>	<i>MAHYTER</i>	Synthèse et caractérisation de nouveaux métallophosphonates luminescents sans terres rares à architectures contrôlées	11h00
<b>GANESAN Parameshwari</b>	<i>MAHYTER</i>	Spectroscopic studies of hybrids derived from organic-phosphonic acid with alkaline earth elements (Mg, Ca, Sr, Ba)	11h10
<b>MAS Lydie</b>	<i>NICHROFAB</i>	Impact of the microstructure of a Ni20Cr alloy produced by additive manufacturing on the electrochemical corrosion resistance	11h20
<b>SHUBHAM Sanjay Joshi</b>	<i>NICHROFAB</i>	Influence of temperature on the strain hardening mechanisms of L-PBF Ni20Cr alloy	11h30
<b>NDIAYE Samba</b>	<i>BREAKING AP</i>	Surface Dynamics of Field Evaporation in Silicon Carbide	11h40
<b>GUILBOURG Paul</b>	<i>BREAKING AP</i>	Simulation of ion emission and charge distribution of fragments ejected from the surface of a charged aggregate	11h50
<b>HAMDANI Hakim</b>	<i>PERCUSS</i>	Experimental and numerical study of the aeration effect during liquid-solid impact (Part 1)	15h15
<b>BERKANE Belaïd</b>	<i>PERCUSS</i>	Experimental and numerical study of the aeration effect during liquid-solid impact (Part 2)	15h25
<b>BOFFELLI Jeffrey</b>	<i>PTOLEMEE</i>	Reactive collisions between electrons and molecular cations: theoretical approaches and applications in the ionized non-equilibrium environments	15h35
<b>DUBOIS Paul</b>	<i>PTOLEMEE</i>	Spectroscopic study of the influence of a magnetic field on an aluminium laser-induced plasma	15h45
<b>FAHEK Jawad</b>	<i>ZEOMAH</i>	Synthesis of New Structure Directing Agents for Zeolites with Extra Large Pore Size	15h55
<b>FAHDA Mohammad</b>	<i>ZEOMAH</i>	Spectroscopic examination of the stability and accessibility of acid sites in an extra-large pore zeolite ZEO-1	16h05
<b>REZKALLAH Joséphine</b>	<i>ZEOMAH</i>	In-Situ and Operando TEM for CO <sub>2</sub> catalytic hydrogenation investigation	16h15



**Mercredi 14 juin 2023 – Présentations des doctorants *alumni* et des étudiants M2 GS-MES (11h00-12h15 // 14h00-15h30 // 15h45-16h45)**

NOM Prénom	Statut	Sujet	Horaire
GOSSE Léo	Doctorant	Laser-induced ethanol plasmas spectroscopy: study of the 777 nm atomic oxygen triplet	11h00
RAKOTOMIZAO Alexandre	Doctorant	Methodological development for the characterization of nanoscopic defects in nuclear materials: contribution of correlative microscopy TEM/APT	11h15
ROUVILLER Axel	Doctorant	Structural, Electrical and Optical properties of Zn-doped SrVO <sub>3</sub> Thin Films Grown by Co-Sputtering	11h30
DIAEDDINE Mohamed	Doctorant	Experimental and numerical modelling of flows in the macropores of fibrous preforms used in LCM	11h45
BRAULT Adrien	Doctorant	Experimental study of two-photon absorption laser-induced fluorescence and amplified spontaneous emission applied to xenon in single shot	12h00
MOHAMMAD Eisha Noor	M2	Comparison of steels by nanosecond laser-induced plasmas. Application to tokamak materials	14h00
AGHA Yanis	M2	Implementation of advanced optical diagnostics in reactive plasmas	14h05
LIMET Noémie	M2	Thermal Stratification of Cryogenic Fluids in Tanks	14h10
NOLL Preston	M2	Temperature variance in acoustic emission from thermoset composites	14h15
ILHAMI Mohammed	M2	Molecular dynamics simulation of new generation biobased polyesters	14h20
MEJRES Marouane	M2	Study of physical aging phenomena in biodegradable polymer materials	14h25
CRICHTON Swann	M2	Effects of Molecular Weight on Poly (Lactic Acid) under Flow-Induced Crystallization	14h30
GONCALVES Jérémie	M2	Development of tunable daytime radiative cooling surfaces	14h35
RUBINI Tim	M2	Impact of Light and Voltage biases on the External Quantum Efficiency of Silicon/Perovskite tandem solar cells	14h40
DAMAY Félix	M2	Preliminary study of an impedance tube for characterizing the acoustic properties of underwater porous media	14h45
LEFEBVRE Florian	M2	Turbulence generation and decay at standstill	14h50
MASCRIER Enzo	M2	Effects of non-isotropic blockage on a tidal turbine modelled with the Actuator-Line Method	14h55
BLONDEL Artémis	M2	Hot Gases Modelling of a Solid Propellant Rocket Motor static fire test	15h00
RODRIGUES LOPES Gustavo	M2	Improvement of PV substrates	15h05
MOYEN Solène	M2	Simulation and characterization of nano-antenna devices in the 8-12 $\mu$ m range	15h10
POTAUFEUX Thomas	Doctorant	Experimental study of the heat dissipation produced by a drop impact on textured walls	15h45
SCHLEUNIGER Pierre	Doctorant	3D Light field Imaging for spray Metrology	16h00
MORSLI Walid	Doctorant	Taming Nonlinearities in Turbulence	16h15
HIEMATH Anupam	Doctorant	Thermal convection in Liquid metal batteries	16h30



**POSTERS LabEx EMC3 + POSTERS GS-MES**

<b>NOM Prénom</b>	<b>Sujet</b>	<b>Emplacement</b>
BENMABROUK Sélia	Influence of the manufacturing process on the fracture behaviour of a nickel-chromium alloy produced by conventional method and additive manufacturing (L-PBF)	<b>PL1</b>
CHETOUANI Abdelilah	Pulvérisation solvothermale d'aimants Nd-Fe-B recyclés : influence des conditions de traitement	<b>PL2</b>
CHOKER Eva	Ordre magnétique dans des spinelles à propriétés thermoélectriques	<b>PL3</b>
EL HABER Serge	Investigation of the magnetism impact on the thermoelectric properties in the spinel family	<b>PL4</b>
SIDDIQI Mohammad W.U.	Wet synthesis of particles for thermoelectric applications	<b>PL5</b>
AGHA Yanis	Implementation of advanced optical diagnostics in reactive plasmas	<b>P1</b>
BLONDEL Artémis	Hot Gases Modelling of a Solid Propellant Rocket Motor static fire test	<b>P2</b>
BOUILLON Paul	Collisions of electrons with NeH <sup>+</sup> in fusion edge plasmas	<b>P3</b>
CRICHTON Swann	Effects of Molecular Weight on Poly (Lactic Acid) under Flow-Induced Crystallization	<b>P4</b>
DAMAY Félix	Preliminary study of an impedance tube for characterizing the acoustic properties of underwater porous media	<b>P5</b>
DELACOTTE Emma	Synthesis and characterization of SrVO <sub>3</sub> targets for thin films deposition	<b>P6</b>
FAHY Alexandre	Interferometric imaging for particle's sizing and morphological analysis	<b>P7</b>
GONCALVES Jérémie	Development of tunable daytime radiative cooling surfaces	<b>P8</b>
ILHAMI Mohammed	Molecular dynamics simulation of new generation biobased polyesters	<b>P9</b>
LEFEBVRE Florian	Turbulence generation and decay at standstill	<b>P10</b>
LIMET Noémie	Thermal Stratification of Cryogenic Fluids in Tanks	<b>P11</b>
MASCRIER Enzo	Effects of non-isotropic blockage on a tidal turbine modelled with the Actuator-Line Method	<b>P12</b>
MEJRES Marouane	Study of physical aging phenomena in biodegradable polymer materials	<b>P13</b>
MOHAMMAD Eisha Noor	Comparison of steels by nanosecond laser-induced plasmas. Application to tokamak materials	<b>P14</b>
MOYEN Solène	Simulation and characterization of nano-antenna devices in the 8-12 $\mu$ m range	<b>P15</b>
NOLL Preston	Temperature variance in acoustic emission from thermoset composites	<b>P16</b>
OUARET Amina	Influence of metallurgical heterogeneities on the local mechanical properties of Reactor Pressure Vessel (RPV) steel	<b>P17</b>
RODRIGUES LOPES Gustavo	Improvement of PV substrates	<b>P18</b>
RUBINI Tim	Impact of Light and Voltage biases on the External Quantum Efficiency of Silicon/Perovskite tandem solar cells	<b>P19</b>
VIALLEFONT Arthur	Study of the subcritical transition to turbulence in a flow of Taylor Couette	<b>P20</b>