

## Programme Journées Scientifiques

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

### Mardi 13 juin 2023

09h00	Accueil + remise de badges + café
09h30 – 10h00	Politique et bilan LabEx EMC <sup>3</sup> Antoine MAIGNAN et Armelle CESSOU
10h00 – 10h30	Présentation et bilan de la GS-MES Antonella ESPOSITO
10h30 – 11h00	Pause café autour des posters
11h00 – 12h00	Présentations des doctorants LabEx EMC <sup>3</sup> Thèses 2020 (6 x 10min)
12h00 – 14h00	Cocktail déjeunatoire autour des posters
14h00 – 15h00	Orateur Invité - <b>Prof. Jean-François GERARD</b>
15h00 – 15h15	Pause café
15h15 – 16h30	Présentations des doctorants LabEx EMC <sup>3</sup> Thèses 2020 (7 x 10min)
16h30 – 17h00	Vote et remise du prix de la <b>Meilleure Présentation Doctorant LabEx EMC<sup>3</sup></b>

### Mercredi 14 juin 2023

09h00	Accueil + remise des badges + café
09h30 – 09h40	Introduction de la journée - Antonella ESPOSITO
09h40 – 10h40	Orateur invité - <b>Prof. Benoît LAIGNEL</b>
10h40 – 11h00	Pause café autour des posters
11h00 – 12h15	Présentations des doctorants Alumni GS-MES (5 x 15min)
12h15 – 14h00	Cocktail déjeunatoire autour des posters
14h00 – 15h30	Présentations des étudiants M2 GS-MES Promotion Ghez-De Broglie (15 x 5min)
15h15 – 15h45	Pause café autour des posters et derniers votes
15h45 – 16h45	Présentations des doctorants Alumni GS-MES (4 x 15min)
16h45 – 17h00	Vote et remise des prix GS-MES : <b>Meilleure Présentation Orale et Meilleur Poster</b>
17h15 – 17h30	Bilan et clôture des journées scientifiques



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

NOM Prénom	Projet	Titre	Horaire
LETHEUX Geoffrey	MAHYTER	Synthèse et caractérisation de nouveaux métallophosphonates luminescents sans terres rares à architectures contrôlées	11h00
GANESAN Parameshwari	MAHYTER	Spectroscopic studies of hybrids derived from organic-phosphonic acid with alkaline earth elements (Mg, Ca, Sr, Ba)	11h10
MAS Lydie	NICHROFAB	Impact of the microstructure of a Ni20Cr alloy produced by additive manufacturing on the electrochemical corrosion resistance	11h20
SHUBHAM Sanjay Joshi	NICHROFAB	Influence of temperature on the strain hardening mechanisms of L-PBF Ni20Cr alloy	11h30
NDIAYE Samba	BREAKING AP	Surface Dynamics of Field Evaporation in Silicon Carbide	11h40
GUILBOURG Paul	BREAKING AP	Simulation of ion emission and charge distribution of fragments ejected from the surface of a charged aggregate	11h50
HAMDANI Hakim	PERCUSS	Experimental and numerical study of the aeration effect during liquid-solid impact (Part 1)	15h15
BERKANE Belaïd	PERCUSS	Experimental and numerical study of the aeration effect during liquid-solid impact (Part 2)	15h25
BOFFELLI Jeffrey	PTOLEMEE	Reactive collisions between electrons and molecular cations: theoretical approaches and applications in the ionized non-equilibrium environments	15h35
DUBOIS Paul	PTOLEMEE	Spectroscopic study of the influence of a magnetic field on an aluminium laser-induced plasma	15h45
FAHEK Jawad	ZEOMAH	Synthesis of New Structure Directing Agents for Zeolites with Extra Large Pore Size	15h55
FAHDA Mohammad	ZEOMAH	Spectroscopic examination of the stability and accessibility of acid sites in an extra-large pore zeolite ZEO-1	16h05
REZKALLAH Joséphine	ZEOMAH	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	Titre	Horaire
GOSSE Léo	Laser-induced ethanol plasmas spectroscopy: study of the 777 nm atomic oxygen triplet	11h00
RAKOTOMIZAO Alexandre	Methodological development for the characterization of nanoscopic defects in nuclear materials: contribution of correlative microscopy TEM/APT	11h15
ROUVILLER Axel	Structural, Electrical and Optical properties of Zn-doped SrVO <sub>3</sub> Thin Films Grown by Co-Sputtering	11h30
DIAEDDINE Mohamed	Experimental and numerical modelling of flows in the macropores of fibrous preforms used in LCM	11h45
BRAULT Adrien	Experimental study of two-photon absorption laser-induced fluorescence and amplified spontaneous emission applied to xenon in single shot	12h00
MOHAMMAD Eisha Noor	Comparison of steels by nanosecond laser-induced plasmas. Application to tokamak materials	14h00
AGHA Yanis	Implementation of advanced optical diagnostics in reactive plasmas	14h05
LIMET Noémie	Thermal Stratification of Cryogenic Fluids in Tanks	14h10
NOLL Preston	Temperature variance in acoustic emission from thermoset composites	14h15
ILHAMI Mohammed	Molecular dynamics simulation of new generation biobased polyesters	14h20
MEJRES Marouane	Study of physical aging phenomena in biodegradable polymer materials	14h25
CRICHTON Swann	Effects of Molecular Weight on Poly (Lactic Acid) under Flow-Induced Crystallization	14h30
GONCALVES Jérémie	Development of tunable daytime radiative cooling surfaces	14h35
RUBINI Tim	Impact of Light and Voltage biases on the External Quantum Efficiency of Silicon/Perovskite tandem solar cells	14h40
DAMAY Félix	Preliminary study of an impedance tube for characterizing the acoustic properties of underwater porous media	14h45
LEFEBVRE Florian	Turbulence generation and decay at standstill	14h50
MASCRIER Enzo	Effects of non-isotropic blockage on a tidal turbine modelled with the Actuator-Line Method	14h55
BLONDEL Artémis	Hot Gases Modelling of a Solid Propellant Rocket Motor static fire test	15h00
RODRIGUES LOPES Gustavo	Improvement of PV substrates	15h05
MOYEN Solène	Simulation and characterization of nano-antenna devices in the 8-12µm range	15h10
POTAUFUEUX Thomas	Experimental study of the heat dissipation produced by a drop impact on textured walls	15h45
SCHLEUNIGER Pierre	3D Light field Imaging for spray Metrology	16h00
MORSLI Walid	Taming Nonlinearities in Turbulence	16h15
HIREMATH Anupam	Thermal convection in Liquid metal batteries	16h30