

# Journée Technico-Scientifique du département M2I

- 19 mai 2022 -

## Programme

9h30 - 9h45	E. Alleno	The M2I Department in 2022
9h45 - 10h00	L. Bessais (PMT)	Synchrotron resonant diffraction study of $\text{Sm}_2(\text{Fe,Co})_{17}$ compounds
10h00 - 10h15	E. Torralba-Penalver (PECEE)	Insights into the Voltammetry of Cavity Microelectrodes Filled with Metal Powders: The Value of Square Wave Voltammetry
10h15 - 10h30	M. Laurent-Brocq (CAM)	Chemically architected alloys: How interphase width influences the strengthening
10h30 - 11h00	PAUSE CAFE	
11h00 - 11h15	J.-C. Crivello (MC)	Supervised deep learning prediction of the formation enthalpy of complex phases using a DFT database: The $\sigma$ -phase as an example
11h15 - 11h30	Y. Zhou (BATTion)	Electrochemical performance of lithium transition metal nitrides as negative electrode materials for Li-ion battery
11h30 - 11h45	V. Paul-Boncour (PMT)	Investigation by electron tomography and STEM-EELS of He nanobubbles formed in aged palladium tritides
11h45 - 12h00	G. Bernari (ITA)	Quelles formalités avant mon départ en mission ?
12h00 - 14h00	DEJEUNER	
14h00 - 14h15	R. Poulain (CAM)	Evidence of ordered precipitates in the Ti-O system: crystallographic structure analysis and impact on the mechanical properties
14h15 - 14h30	A. Bouzidi (IHM)	Hydrogen Sorption Properties of a Novel Refractory Ti-V-Zr-Nb-Mo High Entropy Alloy
14h30 - 14h45	S. Bastide (PECEE)	Versatile approach to nanoporous polymers with bicontinuous morphology using metal templated synthesis
14h45 - 15h00	J.-M. Joubert (MC)	Modification of Lu's (2005) high pressure model for improved high pressure/high temperature extrapolations.
15h00 - 15h30	PAUSE CAFE	
15h30 - 15h45	J. Zhang (IHM)	Study on structural and hydrogen absorption properties on $\text{YNi}_{2-x}\text{Al}_x$
15h45 - 16h00	L. Perrière (ITA)	Crystal growth at ICMPE: a presentation of our newest Bridgman furnace
16h00 - 16h15	E. Alleno (PMT)	Numerical and experimental determination of the thermal conductivity of pristine and substituted $\text{Fe}_2\text{VAl}$



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