

Programme workshop Advanced Materials and Their Manufacturing, 7-8 juin 2023

ENSAM, 155 boulevard de l'Hôpital, Amphithéâtre Fournel

Le programme sera diffusé à la section régionale du Groupe Français des Polymères et aux tutelles. Le workshop sera aussi largement ouvert aux doctorant.e.s de l'ED SMI.

<i>June 7 Morning Session</i>		
<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
9am		
9 :30-10 :15am	Polymer Design for Additive Manufacturing: Striving for Sustainability	Tim Long (ASU)
10 :15-10 :-45am	Nanostratification of aged rubber-toughened polymer and impact on mechanical properties	Cyrille Sollogoub (PIMM)
10 :45-11 :00	<i>break</i>	
11 :00-11 :30am	Advances in 3d printing of high-surface area metals and their polymer-matrix composites	Bruno Azeredo (ASU)
11 :30-12 :00am	Some recent developments on the Laser Powder Bed Fusion (LPBF) process	Patrice Peyre (PIMM)
12 :00-12 :30pm	Architected materials obtained through advanced laser manufacturing	Justin Dirrenberger (PIMM)
<i>break</i>		
<i>June 7 Afternoon Session</i>		
<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
2 :15-3 :00pm	Empowering materials science and engineering from the use of physics-based and data-driven hybrid modelling approaches	Francisco Chinesta (PIMM)
3 :00-3 :30pm	Advanced Composites: the Processing-Structure-Property Relationships in Layered Micro- and Nanostructures	Kenan Song (ASU)
3 :30-4 :00pm	Role of the inter-ply microstructure in the consolidation quality of high-performance thermoplastic composites	Guillaume Miquelard-Garnier (PIMM)
4 :00-4 :30pm	Electroactive Fluorinated Polymers for Actuators: Discussion on the influence of the microstructure on the macroscopic properties	Sébastien Roland (PIMM)
<i>break</i>		
<i>June 8 Morning Session</i>		
<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
9am		
9 :15-10 :00am	High Throughput Discovery of Photoelectrode Assemblies for Solar Fuels Generation	Joel Haber (Caltech Division of Engineering and Applied Science)
10 :00-10 :30am	Metal Oxide-Based Thermochemical Redox Processes for Producing Solar Fuels and Storing Thermal Energy	Ellen Stetchel (ASU)
10 :30-11 :00am	Synthesis by reactive extrusion of vitrimer by addition of dynamic inorganic nanofillers : a rheological study	Stéphane Delalande (PIMM)
11 :00-11 :30 am	Architecting Photonic Metamaterials: Self-assembly and Symmetry Control	Sui Yang (ASU)
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