International conference

Non-Equilibrium and Environment Effects on Nanoalloys

Paris – France, December 7th – 9th 2022

	Wednesday 7th		Thursday 8th	Friday 9th
			Non-equilibrium systems, Dynamics, defects	Machine Learning
9h		9h	D. Nelli	M.-C. Marinica
9h40		9h40	F. Calvo	D. Forster
10h20		10h20	C. Mottet	M. Benoit
10h40		10h40	M. Erbi	
11h-11h20		11h-11h20	Break	Break
11h20		11h20	M. L. De Marco	A. Demortière
11h40		11h40	C. Varvenne	A. Nassereddine
12h		12h		M. Hillenkamp
12h20		12h20	V. Huc	Closing Session
				IRN Members meeting
13h00	Registration	13h00	Lunch Time	Lunch box
13h30	Opening Session			
	Nucleation – Growth and Kinetic effects		Environment effects and reactivity of nanoalloys	
14h	G. Prévot	14h	F. Maillard	
14h40	I Lampre	14h40	H. Guesmi	
15h00	S. Hadaoui			
15h20	L. Sicard	15h20	F. Gazeau	
15h40	T. Blin			
16h00	A. Hauser	16h00	K. Neyman	
16h20	Break	16h20	E. Jansen	
16h40	G. Guisbiers			
	Environment effects and reactivity of nanoalloys	17h00	Break	
17h20	E. German	17h20	Car for the center of Paris	
17h40	E. Cottancin			
18h00	C. Petit			
18h20	A. Bruix Fusté			
18h40	Poster session		Conference Dinner	
20h30	Special event			

Invited presentations

Grégory Guisbiers	Growth mechanisms in Au, Pt, Pd nanoparticles and in their nanoalloys
Ewald Janssens	Gas-phase growth of nanoalloys for catalysis research
Geoffroy Prévot	Alloy formation during epitaxial growth of germanium on Ag(111) and Al(111)
Diana Nelli	Interdiffusion And Equilibration In Bimetallic Nanoalloys: From Intermixing To Phase Separation (And Vice Versa)
Florent Calvo	Relaxation to equilibrium in nanoalloys: a computational survey
Céline Varvenne	High Entropy Alloys: a Platform to Revisit Traditional Bulk Metallurgy
Vincent Huc	Molecular chemistry for nanoalloys synthesis
Mihai-Cosmin Marinica	Machine Learning for Atomistic Materials Science
Daniel Förster	Value of Deep Learning for the Analysis of HRTEM Images of Nano-alloys
Frédéric Maillard	Deciphering Structure - ORR Activity – Stability Relationships Thanks to Physical and Electrochemical Markers
Hazar Guesmi	Modeling the effect of reactive gas on single-atom alloy catalysts
Florence Gazeau	Metamorphosis of gold in the body
Magali Benoit	Modelling metallic nanoparticles using machine-learning potentials: A new hope ?