

## Nanomaterials for Energy Applications @ Thales 19-20 Mars 2024

date	start	end	title
19/03/2024			
	09:30	10:00	Welcome
	10:00	10:10	Opening Paolo BONDAVALLI (Thales RT)
	10:10	10:50	Exploring nanoscale heat transport and thermoelectricity phenomena in 2D materials and 2D-3D heterostructures Oleg KOLOSOV (Univ Lancaster)
	10:50	11:20	Alloying earth abundant metals by discharges in liquids hydrogen production Thierry BELMONTE (Univ Lorraine)
	11:20	11:50	Nouvelles perspectives en caractérisation thermique l'électronique de puissance à Thales RT Dominique CARISSETTI (Thales RT)
	11:50	12:10	Passive-Heat Etienne EUSTACHE (Thales RT)
	12:10	12:40	Conversion pyroélectrique d'énergie de champ proche Philippe BEN-ABDALLAH (Institut d'optique)
	12:40	14:00	LUNCH
	14:00	14:30	Seeking non-Fourier heat transfer with thermoreflectance Stefan DILHAIRE (Univ Bordeaux)
	14:30	15:00	Disordered Silicon Meta-materials for Thermal Conversion and Management: Radiative Properties and Applications Elyes NEFZAOUI (Univ Gustave Eiffel)
	15:00	15:30	Thermal metrology and characterisation platforms for thermally active devices Etienne BLANDRE (IEMN)
	15:30	16:00	COFFEE BREAK
	16:00	16:30	Electrochemical synthesis of nanostructures for thermoelectric conversion Nicolas STEIN (Univ Lorraine)
	16:30	17:00	Preparation of 3D micro-electrodes by spin-coating for energy storage Nathalie POIROT (Univ Tours)
	17:00	17:20	Nanomaterials for energy: how to eventually make a business out of it Francesco MATTEUCCI (EIC)
	17:20	18:00	ROUND TABLE
	20:00	22:00	GALA DINNER
20/03/2024			
	09:00	09:30	Thermo-électricité via ab initio simulations Nathalie VAST (CEA-Polytechnique)
	09:30	10:00	Full band Monte Carlo simulation on phonon transport in 2D h- lateral heterostructures Jerome SAINT-MARTIN (ENS Paris Saclay)
	10:00	10:30	Optimizing thermal transfer at nanostructured interfaces and thermoelectricity of single molecule junctions Samy MERABIA (Univ Lyon 1)
	10:30	11:00	NEXTOP : les isolants topologiques à l'honneur Paolo BONDAVALLI (Thales RT)
	11:00	11:30	COFFEE BREAK & POSTERS
	11:30	12:00	New thermal probe for Scanning Thermal Microscopy (SThM) of nanomaterials Olivier BOURGEOIS (Neel Institute)
	12:00	12:30	Conception of innovative cooling nanodevices based on III-V heterostructures Marc BESCOND (Univ Aix-Marseille)
	12:30	13:00	Functional oxides for on-chip thermal management Romain BACHELET (INL Lyon)
	13:00	14:00	LUNCH
	14:00	14:30	Réseau RéNIL - Réseau National de la Lithographie par Nanoimpression Jean-Baptiste DOUCET (Laas CNRS)
	14:30	15:00	Thermoelectric phenomena in complex fluids : What we know so far and what can we do with them? Sawako NAKAMAE (CEA Saclay)
	15:00	15:30	III-N nanowires based transducers: An alternative to supply micro-devices Noëlle GOGNEAU (Univ Paris Saclay)
	15:30	16:00	ROUND TABLE
	16:00	16:15	Closing Paolo BONDAVALLI (Thales RT), Giorgia FUGALLO (LTEN), Konstantinos TERMENTZIDIS (CETHIL)