





One-day workshop: Metrology for Energy nanomaterials

Date: November 17, 2022

Place: LNE Paris (room 68) 1, rue Gaston Boissier - 75724 PARIS

Organisers: N. Fleurence (LNE), B. Gautier (INL), F. Piquemal (LNE)

Objectives

This workshop proposes to present to the scientific community involved in the development of Energy nanomaterials an overview (not exhaustive) of the main techniques of quantitative characterization at micro and nano scales. It is also an opportunity to introduce them to the issues of standardization, traceability of measurements and modelling at these scales. In addition, this workshop will also be an opportunity to discuss the scientific barriers and technical challenges specific to measurements at nanoscale that remain to be overcome with the aim at obtaining quantitative measurements and converging measurements and modelling.

Draft Agenda

Time	Topic	Speakers
9h00 – 9h10	Opening	Organisers
9h10 – 9h45	Standardisation	N. Fabricius (ISC)
9h45 – 10h20	Modelling	B. Gautier (INL)
10h20 – 10h55	Metrology : Measurement and uncertainties	S. Demeyer (LNE)
10h55 – 11h10	Coffee break	
11h10 – 11h45	Nano characterization in length domain: AFM, SEM	A. Delvallée (LNE)
11h45 – 12h20	Nano characterization in electricity (I):	K. Kaja (LNE)
	KPFM, and Conductive AFM techniques	
12h20 – 13h45	Lunch	
13h45 – 14h20	Nano characterization in electricity (II):	J. Hoffmann (METAS)
	SMM techniques	
14h20 – 14h55	Nano characterization in magnetism	H. W. Schumacher (PTB)
14h55 – 15h30	Nano characterization in thermal domain (SThM)	S. Gomès (CETHIL)
15h30 – 15h45	Coffee break	
15h45 – 16h20	Elemental and structural characterization	MC. Lepy / Y. Menesgen (LNHB)
16h20 – 17h00	Round table	All
17h00 – 17h10	Closure	Organisers

Registration and attendee details: https://www.lne.fr/en/events/workshop-metrology-energy-nanomaterials

The workshop is free of charge but all participants have to register online. Please note that the total number of participants is limited, so the 'first come, first serve' principle will be applied.

Contact: workshopnanoenergy@lne.fr





