

LEE2023-Programme

a brainstorming meeting on relevance of Low-Energy-Electrons in nanolithography, electron-microscopy and adjacent fields (Monday, November 20th 2023)

	Title	Speaker	Institution
09:45-10:00	Welcome	Aldo Di Carlo Antonio Cricenti	UniTorVergata ISM-CNR
10:00-10:10	Introduction: the ubiquitous role of secondary electrons	Giovanni Stefani	ISM-CNR
10:10-10:40	Secondary electron induced secondary and tertiary reactions in FEBID	Oddur Ingolfsson	University of Iceland
10:40-11:10	Low-energy electrons-assisted deposition from precursors using focused-ion and electron beams for device fabrication	Andrea Notargiacomo	IFN-CNR
11:10-11:30	Coffee break		
11:30-12:00	NEBULA, a simulation tool for electron beam imaging and lithography	Cornelis W. Hagen	Delft University of Technology
12:00-12:30	Understanding low energy electron emission using coincidence spectroscopy	Wolfgang S.M. Werner	TUV-Vienna
12:30-13:50	Lunch break		
13:50-14:20	Electron emission under low-energy electron irradiation: modeling and measurements	Christophe Inguibert	DPHY-ONERA
14:20-14:50	Electron-induced chemistry in Bremen - from the fundamentals to astrochemistry and nanofabrication	Petra Swiderek	Uni-Bremen
14:50-15:20	Low energy electron emission, injection and charge reequilibrium from plasmonic nanostructures for catalysis applications	Stefano Turchini	ISM-CNR
15:20-15:50	The mean free path of secondary electrons generated in EUV lithography	Roberto Fallica	IMEC-Leuven
15:50-16:10	Coffee break		
16:10-16:40	Photoresists activation mechanisms	Sylvie Rangan	Rutgers University
16:40-17:10	Problems with low-energy electrons in imaging and lithography	John S. Villarubia	NIST Gaithersburg
17:10-17:40	Effect of secondary electrons emission in extreme-UV diamond detectors	Claudio Verona	TorVergata University
17:40-18:10	Final Discussion	Stefano Iacobucci (Moderator)	ISM-CNR

A few tips of organization:

- **Compile the participation form (attached to the announcement) and return it to stefano.iacobucci@ism.cnr.it**
- **The meeting can be attended in person:
Università degli Studi di Tor Vergata - Dipartimento di Ingegneria,
Via del Politecnico, 1, 00133 Roma - Italy, Aula “Pitagora” ([How to reach us | Electronic Engineering Department](#)) via Teams platform:
a link to the Team session will be sent upon receipt of the participation form**