Aldo Armigliato SEM SCHOOL IN MATERIALS SCIENCE

09-12 April 2019, CNR IOM Area Science Park Trieste, Italy

DIRECTOR

Dr. Regina CIANCIO

TEACHERS

Regina Ciancio *CNR IOM Trieste*Roberto Balboni, Vittorio Morandi, Matteo Ferroni - *CNR IMM Bologna*Marco Vittori Antisari- *Nanoitaly*Giancarlo Gazzadi - *CNR Nano Modena*Massimo Vanzi, Giovanna Mura - *Uni. Cagliari*Amelia Montone - *ENEA Casaccia, Rom*Paolo Mengucci - *Uni. Poli. Marche*







PROGRAM OF THE WEEK

Tuesday 09 th		Wednesday 10 th		Thursday 11th		Friday 12 th	
09:00	REGISTRATION	09:00	EDX Microanalysis A. Montone			09:30	PRACTICAL SESSIONS
		10:00	Low Energy STEM Image Formation and Detection	10:00	PRACTICAL SESSIONS SEM, ESEM, FIB		SEM, ESEM, FIB
10:30	Electron-Matter Interaction and generated signals		V. Morandi		SEM, ESEM, FIB		
	R. Balboni	11:00	COFFEE BREAK			11:00	COFFEE BREAK
11:30	Working Principles R. Ciancio	11:30	Introduction to Focused Ion Beam G. Gazzadi	11:30	COFFEE BREAK	11:30	PRACTICAL SESSIONS SEM, ESEM, FIB
				12:00	PRACTICAL SESSIONS SEM, ESEM, FIB		
12:30	Electron Sources, Optics, Lenses and Aberrations P. Mengucci	12:30	Tomography in the SEM M. Ferroni				
						13:00	ROUND TABLE DISCUSSION
13:30	LUNCH	13:30	LUNCH	13:30	LUNCH	13:30	LUNCH
14:30	Detectors and Image Formation V. Morandi	14:30	EBIC – Principles and applications to device diagnostics M. Vanzi	14:30	PRACTICAL SESSIONS SEM, ESEM, FIB		
15:30	SEM Perfermances and	15:30	3D Photometric stereo at the SEM				
	Optimization M. Vittori-Antisari		G. Mura	16:00	COFFEE BREAK		
16:30	COFFEE BREAK	16:30	COFFEE BREAK	16:30	6:30 PRACTICAL SESSIONS SEM, ESEM, FIB		
17:00	SPONSORS PRESENTATIONS	17:00	SPONSORS PRESENTATIONS				
18:00		18:00		18:00			

VENUE

The school will take place at the Istituto Officina dei Materiali (IOM), located in the AREA Science Park, Basovizza - Trieste, in Italy. The *Istituto Officina dei Materiali* (IOM) of the Italian National Research Council (CNR) is an interdisciplinary research center that combines material synthesis, advanced characterisations and numerical simulations, focusing on the study and development of innovative materials and devices at the micro- and nano-scale. The IOM Headquarters are located in Basovizza - Trieste, very close to the border with Slovenia.

HOW TO REACH

It is possible to reach us by Trieste airport (www.aeroporto.fvg.it), by train and by car. The most important European hubs can also be accessed from Venice, Treviso and Ljubljana airports, which are also at close distance.

To reach the school site, you can take public transportation (bus 39 and 51) from the Trieste train station square. Please go to www.triestetrasporti.it to download the related timetables. You can also contact science bus for a sharing shuttle service to the school site.

For information regarding how to reach the school and about accommodation, please contact:

Regina Ciancio

CNR - IOM Sezione di Trieste

Tel: +39 040 375 6467

E-mail: semschool2019@iom.cnr.it

REGISTRATION

The school will be open to a **maximum of 24 participants**. A minimum number of 10 attendees is required to activate the courses. Registration to the school is obtained by signing up **before March 15th, 2019**, directly on the SISM website sism.it

SISM MEMBERS: **300€** NOT MEMBERS: **400€**

The fee includes participation to the courses, education materials, coffee breaks and lunches to the local CNR canteen. Students and young researchers with a temporary position can claim an additional 30% discount on the fees (VAT excluded).

For any payment an invoice will be issued. Please note that, for employees of Italian public institutions, the fee is exempt from VAT (Article 10 of DPR 633/72)

Registration fees may be paid through:

Credit card at SISM website

Bank transfer S.I.S.M

IBAN: IT 43 Q 02008 02455 000103039142

BIC-SWIFT: UNCRITM1PM5 or UNCRITMM

Address: Unicredit - Ag. Dante, Bologna

Reference: "Name of the participant + TSSEM2019"

COMMITTEES

Scientific Committee

Roberto Balboni, CNR-IMM Bologna Regina Ciancio, CNR-IOM Trieste Vittorio Morandi, CNR-IMM Bologna

Local Organizing Committee

Regina Ciancio, CNR-IOM Trieste (Chair) Simone Dal Zilio, CNR-IOM Trieste

IT Support

Matteo Brutti, CNR-IOM Trieste Vanja Cvelbar, CNR-IOM Trieste Luca Ortolani, CNR-IMM Bologna Alessandro Yoshi Polliotti, CNR-IMM Bologna