

"ALDO ARMIGLIATO" SEM SCHOOL IN MATERIAL SCIENCE

November 2020

Monday 9th

09:45	INTRODUCTION <i>V. Morandi</i>
10:00	SEM: The Instrument and Working Principles <i>R. Ciancio</i>
10:50	
11:00	Electron-Matter Interaction and Signals Generated <i>R. Balboni</i>
11:50	
12:00	Electron Sources, Optics, Lenses and Aberrations <i>P. Mengucci</i>
12:50	
13:00	

Tuesday 10th

10:00	Detectors and Image Formation <i>V. Morandi</i>
10:50	
11:00	SEM Performances Optimization <i>M. Vittori Antisari</i>
11:50	
12:00	Low Energy STEM: Image Formation and Detection <i>V. Morandi</i>
12:50	
13:00	

Wednesday 11th

MORNING THEORY SESSIONS

10:00	EDX Microanalysis <i>A. Montone</i>
10:50	
11:00	Tomography in the SEM <i>M. Ferroni</i>
11:50	
12:00	COMPANIES PRESENTATIONS
12:50	
13:00	

Thursday 12th

10:00	Introduction to Focused Ion Beam <i>G. Gazzadi</i>
10:50	
11:00	SEM Applications in Device Diagnostics <i>G. Mura</i>
11:50	
12:00	Cathodoluminescence in the SEM <i>M. Rossi</i>
12:50	
13:00	

Friday 13th

10:00	COMPANIES PRESENTATIONS
10:50	
11:00	EBIC: Principles and applications to device diagnostics <i>M. VANZI</i>
11:50	
12:00	Electron Backscattered Diffraction <i>P. Bassani</i>
12:50	
13:00	

AFTERNOON PRACTICAL SESSIONS

14:30	SEM-FEG PRACTICAL
15:30	
16:00	SEM-FEG PRACTICAL
17:30	

14:30	ESEM PRACTICAL
15:30	
16:00	ESEM PRACTICAL
17:30	

14:30	EDX PRACTICAL
15:30	
16:00	STEM in SEM PRACTICAL
17:30	

14:30	FIB PRACTICAL
15:30	
16:00	FIB PRACTICAL
17:30	

14:30	EBSD PRACTICAL
15:30	
16:00	CONCLUSIONS <i>V. Morandi</i>
17:30	