

PROGRAM OF THEORETICAL WEEK

Monday 19th

09:00 REGISTRATION

10:00 Electron Optics
G. Lulli

11:30 COFFEE BREAK

12:00 Electron Sources
V. Morandi

13:00 LUNCH

14:30 Instrumentation and
Detectors
M. Ferroni

16:00 COFFEE BREAK

16:30 Introduction to
Aberrations Correction
L. Ortolani

17:30

Tuesday 20th

09:00 Radiation Damage
G. Lulli

10:00 Electron-Matter
Interaction
R. Balboni

11:00 COFFEE BREAK

11:30 Elements of
Crystallography
G. Calestani

13:30 LUNCH

15:00 Introduction to electron
diffraction in materials
R. Balboni

16:00 COFFEE BREAK

16:30 A Diffraction Experiment:
The Arago-Poisson's Spot
A. Parisini

17:30

Wednesday 21st

09:00 X-Ray Microanalysis
of Thin Films
M. Ferroni

11:00 COFFEE BREAK

11:30 Theory of
Electron Diffraction 1
A. Parisini

13:30 LUNCH

15:00 Theory of
Electron Diffraction 2
A. Parisini

16:00 COFFEE BREAK

16:30 Convergent Beam
Electron Diffraction
R. Balboni

17:30

Thursday 22nd

09:30 High Resolution
Electron Microscopy 1
A. Parisini

11:00 COFFEE BREAK

11:30 High Resolution
Electron Microscopy 2
A. Parisini

13:00 LUNCH

14:30 Scanning Transmission
Electron Microscopy 1
V. Morandi

16:00 COFFEE BREAK

16:30 Scanning Transmission
Electron Microscopy 2
V. Morandi

18:00

Friday 23rd

09:30 Electron Holography and
Interferometric Methods
L. Ortolani

11:00 COFFEE BREAK

11:30 Electron Energy Loss
Spectroscopy
G. Bertoni

13:00 LUNCH

14:00 Single particle cryo-electron
microscopy for Structural
Biology and Biomedicine.
L. Montemiglio

15:00 DENSolutions:
The value of in situ TEM
D. Westmoreland

16:00 JEOL:
Solutions for Innovation
P. Grianti

16:30 Thermo Fisher Scientific:
Latest developments in
corrected STEM: low kV
A5-free imaging, iDPC-STEM
and EMPAD
A. Yalcin

17:00 Final Discussion
and Closing Remarks

17:30