



AIC International School

Camerino (Italy), August 30th - September 4th **2009**
<http://web.unipmn.it/~chimfis/AICS2009>

Scattering Techniques: From Microscopic to Atomic Structures

School Site: **Sala degli Stemmi, Palazzo Ducale**, P.za Cavour

SCIENTIFIC PROGRAM

Sunday 30

	Event	Location
17.00 – 19.00	Registration	Palazzo Ducale
19.00 – 19.30	Opening Ceremony	Sala degli Stemmi, Palazzo Ducale
20.00 – 22.00	Get Together Party	Terrace, Palazzo Ducale

Monday 31 - Principles of Scattering: From Micro to Nano Level

Morning Session – Chair: Antonella Guagliardi	
09.00 – 11.00	Elastic Scattering from Matter – Giorgio Margaritondo
11.00 – 11.30	Coffee Break
11.30 – 13.00	Light Scattering: Theoretical Aspects – Fabio Ferri
13.00 – 15.00	Lunch
Afternoon Session – Chair: Piero Macchi	
15.00 – 16.30	Light Scattering: Applications – Fabio Ferri
16.30 – 17.00	Coffee Break
17.00 – 19.00	SAXS Techniques – Gianluca Croce

Tuesday 1 - Principles of Imaging: From Micro to Nano Level

Morning Session – Chair: Luigi Vitagliano	
09.00 – 10.30	Introduction to Synchrotron Radiation and Free Electron Lasers Giorgio Margaritondo
10.30 – 11.00	Coffee Break
11.00 – 12.30	X-ray Tomographic Microscopy: a Powerful, Real-Space Imaging Technique Marco Stampanoni
12.30 – 14.00	Lunch
Afternoon Session – Chair: Michele Zema	
14.00 – 15.15	Coherent Diffraction Microscopy: Theoretical Aspects – Liberato De Caro
15.15 – 16.30	Coherent Diffraction Microscopy: Applications – Cinzia Giannini
16.30 – 17.00	Coffee Break
17.00 – 18.30	Imaging In Transmission Electron Microscopy – Mauro Gemmi
18.30 – 19.30	Confocal Microscopy – Fabio Ferri

Wednesday 2 - Principles of Diffraction: From Micro to Atomic Level

Morning Session – Chair: Simona Galli	
09.00 – 10.30	Crystals and Symmetry - Piero Macchi
10.30 – 11.00	Coffee Break
11.00 – 12.00	WAXS: Single Crystal Diffraction – Piero Macchi
12.00 – 13.00	Applications of Single Crystal Diffraction – Michele Zema
13.00 – 15.00	Lunch
Afternoon Session – Chair: Luigi Vitagliano	
15.00 – 16.15	WAXS: Powder Diffraction – Antonella Guagliardi
16.15 – 17.15	Applications of Powder Diffraction – Simona Galli
17.15 – 17.45	Coffee Break
17.45 – 19.00	X-Ray Microdiffraction Techniques – Cinzia Giannini

Thursday 3 - Diffraction: From Atomic to Sub-Atomic Level

Morning Session – Chair: Simona Galli	
09.00 – 11.00	Electron Diffraction – Mauro Gemmi
11.00 – 11.30	Coffee Break
11.30 – 13.00	The Phase Problem: from non-Periodic Objects to Crystals – Liberato De Caro
13.00 – 15.00	Lunch
Afternoon Session – Chair: Marco Milanesio	
15.00 – 16.30	X-Ray Charge Density Analysis – Piero Macchi
16.30 – 17.00	Coffee Break
17.00 – 18.30	Round Table Discussion

Friday 4 - Time-Resolved Crystallography

Morning Session – Chair: Antonella Guagliardi	
09.00 - 10.30	In Situ XRPD: from Structural Determination to Structural Reactivity Marco Milanesio
10.30 – 11.00	Coffee Break
11.00 – 12.30	Time-resolved Crystallography and Protein Dynamics – Luigi Vitagliano
12.30 – 13.00	Closing Ceremony

SOCIAL PROGRAM

Day	Time	Event	Location
Sun, 30	20.00 – 22.00	Get Together Party	Terrace of <i>Palazzo Ducale</i>
Wed, 2	19.30 – 20.30	Football Match: Teachers vs Students	Soccer field at <i>Centro Culturale Benedetto XIII</i>
Thu, 3	20.00 – 22.00	Social Dinner	Restaurant <i>Rocca Dei Borgia</i>

Coffee Breaks Site: Terrace of *Palazzo Ducale*, P.za Cavour

Lunches Site: *University Cafeteria* at *D'Avack Residence*

Football Match Site: Soccer field at *Centro Culturale Benedetto XIII*

Social Dinner Site: Restaurant *Rocca dei Borgia*, in the castle

Internet point: available from 9,00 to 19,00 at the *University Internet Cafè* (*Palazzo Ducale*, free of charge after registration at the Internet Cafè).