

## Multiscale Modelling Methods for Applications in Materials Science - CECAM - Tutorial 2013

	Monday 16 September	Tuesday 17 September	Wednesday 18 September	Thursday 19 September	Friday 20 September
9:00 – 10:30		<i>Thomas Frauenheim</i> <b>Atomistic Simulations Using the Approximate DFT Method DFTB+: Applications to Nanomaterials and Bio-Systems</b>	<i>Roland Faller</i> <b>Systematic Coarse Graining of Polymers and Biomolecules</b>	<i>Alejandro A. Franco</i> <b>Multiscale Modeling Methods for Electrochemical Energy Conversion and Storage</b>	<i>Martin Müser</i> <b>Modeling Charge Distributions and Dielectric Response Functions of Atomistic and Continuous Media Applications</b>
10:30 – 11:00		<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>
11:00 – 12:30	<b>Registration</b>	<i>Thierry Deutsch</i> <b>Introduction to Electronic Structure Calculations with BigDFT</b>	<i>Peter A. Bobbert</i> <b>Theory and Simulation of Charge Transport in Disordered Organic Semiconductors</b>	<i>Frank Ortmann</i> <b>Novel Electronics Materials: Large-Scale Charge Transport from First Principles</b>	<i>Jérôme Cornil</i> <b>Multiscale Modeling of Electronic Processes at Interfaces in Organic-Based Devices</b>
12:30 – 13:30	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Final Remarks</b>
13:30 – 15:00	<b>Welcome</b>	<b>Visiting JSC Facilities</b>	<i>Michael Rambadt</i> <b>Introduction to UNICORE</b>	<i>Peter Råback</i> <b>Finite Element Modelling with Elmer</b>	<b>Departure</b>
15:00 – 16:00	<b>Coffee Break</b>	<i>Thomas Frauenheim</i> <i>Ilian Todorov</i>	<i>Ivan Kondov / Stefan Bozic</i>	<i>Alejandro A. Franco</i>	
16:00– 17:00	<i>Ilian Todorov</i> <b>Introduction to Modelling, Scalability and Workflows with DL_POLY</b>	<b>Practical Sessions</b>	<i>Thierry Deutsch</i>	<i>Peter Råback</i>	
17:00– 17:30		<b>Poster Presentation</b>	<b>Practical Sessions</b>	<b>Practical Sessions</b>	
17:30 – 19:00	<b>Get-Together</b>	<b>Poster Session</b>			<b>Methods</b>
					<b>Applications</b>
					<b>Tools</b>
					<b>Hands-on</b>