



## Programme for the colloquium on Wednesday, February 20, 2002

9.00-9.15	Welcome
<b>9.15-10.45</b>	<b>1<sup>st</sup> Session (Chairman Hannes Neuweiler)</b>
	Boris Vexler      Mesh Adaptation for Parameter Identification Problems
	Joachim Gronki      Optimization of Diesel Combustion
	Christian Reichert      Modelling and Simulation of Catalytic Surface Reactions
10.45-11.15	Coffee Break
<b>11.15-12.45</b>	<b>2<sup>nd</sup> Session (Chairman Boris Vexler)</b>
	Hannes Neuweiler      Development and Simulation of fluorescent pepticle-based molecular probes for cancer diagnostics
	Ileana Tecuatl      Methods for finding the conformational pathways between known structures of macromolecules
	Jens Eberhard      Coarse Graining of permeability of heterogeneous porous media
12.45-14.15	Lunch Break
<b>14.15-15.45</b>	<b>3<sup>rd</sup> Session (Chairman Joachim Gronki)</b>
	Somporn Chuai-Aree      Modelling, Simulation and Visualization of Plant Growth
	Simona Scheit-Briganti      A quantum dynamical description of molecular Auger decay
	Hoang Duc Minh      Numerical Modelling of Catalytic Reactions for efficient Simulation and Optimization
15.45-16.15	Coffee Break

**16.15-17.15**

**4<sup>th</sup> Session (Chairlady Simona Scheit-Briganti)**

Frank Otto            Quantum Molecular Dynamics with many  
degrees of freedom: Development and  
Implementation of efficient algorithms

Sebastian Sager    Mixed-integer nonlinear dynamic optimization

Werner Korb        Development of Surgical Manipulator:  
Modelling, Simulation, Control

18.00-...

Dinner