

Plenary Lectures – Mathematics

1 Ulrich Rüde (Erlangen-Nürnberg, Germany)	Simulating coupled problems on a million processor cores
2 László Székelyhidi (Leipzig, Germany)	The h-principle in fluid mechanics: non-uniqueness and energy dissipation
3 Oliver Ernst (Chemnitz, Germany)	Uncertainty Quantification: Propagation and Inference
4 Jean-Michel Coron (Paris, France)	On the stabilization of control systems

Plenary Lectures – Mechanics

1 Stefan Diebels (Saarbrücken, Germany)	Beyond uniaxial tension - current trends in experimental mechanics
2 Christian Bucher (Wien, Austria)	Stochastic structural mechanics - from probability theory to structural design
3 Pierre Suquet (LMA, CNRS, Marseille, France)	Model-reduction in micromechanics of materials
4 Daniel Rixen (München, Germany)	Experimental substructuring: Assembly of measured components for noise and vibration analysis

Special Lectures

Ludwig Prandtl Memorial Lecture

Dr. Howard A. Stone (Princeton, USA)

“Some variants of classical multiphase flow problems”

Public Lecture

Dr. Christiane Heinicke

Participant NASA mission HI-SEAS (Hawai Space Exploration Analog & Simulation)

Living on simulated Mars - A personal review

Dr. Rolf Densing

ESA Director of Operations and Head of the European Space Operations Centre

Highlights of ESA Space Missions