

# Conference to celebrate 80th jubilee of Miroslav Grmela

## Saturday May 18

8:00 am to 8:55 am	Registration and Reception in front of <b>lecture hall B-103 (1<sup>st</sup> floor above the entrance to the building)</b>
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## Saturday May 18

9:00 am to 9:20 am <b>lecture hall B-103</b>	Opening (Ceremonies) <b>V. Klika &amp; M. Pavelka</b>
<i>Chair: T. Ruggeri</i>	<i>Appetizer for non-equilibrium thermodynamics</i>
9:20 – 9:40 (B-103)	<b>D. Jou (Autonoma de Barcelona):</b> Some reflections about a Hamiltonian extended thermodynamics
9:45 – 10:05 (B-103)	<b>H. Pleiner (MPI Mainz):</b> Dissipative or Reversible Contributions to Macroscopic Dynamics: The Role of Time-reversal Symmetry and Entropy Production
10:10 – 10:30 (B-103)	<b>E. Cueto (Zaragoza):</b> A GENERIC approach to data-driven computational mechanics
10:35 to 11:05	<b>Break with refreshments;</b> in front of seminar room <b>111 (on the same floor)</b>
<i>Chair: D. Jou</i>	<i>Kinetic theory</i>
11:05 – 11:25 (B-103)	<b>T. Ruggeri (Bologna):</b> Second Order Approximation of Extended Thermodynamics of a Monatomic Gas and Hyperbolicity Region
11:30 – 11:50 (B-103)	<b>E.S. Benilov (Limerick):</b> The Enskog-Vlasov equation: A kinetic model describing gas, liquid, and solid
11:55 – 12:15 (B-103)	<b>O. Esen (Gebze):</b> On Geometric Foundations of Plasma Dynamics
12:20 to 13:30	Lunch <b>seminar room 111 (on the same floor)</b>
<i>Chair: A. Beris</i>	<i>Weakly non-local and complex continua</i>
13:30 – 13:50 (B-103)	<b>P. Ván (MTA Wigner):</b> Weakly nonlocal nonequilibrium thermodynamics and Newtonian gravitation.
13:55 – 14:15 (B-103)	<b>J. Málek (Charles University):</b> On a thermodynamical framework for developing boundary conditions for Korteweg fluids
14:20 – 14:40 (B-103)	<b>P. Pelech (Charles University):</b> Performing Multi-Scale Thermodynamics within GENERIC Framework - Focused on Non-Isotropic Materials
14:45 – 15:05 (B-103)	<b>M. Sýkora (Charles University):</b> Hamiltonian and thermodynamic theory of solids and fluids
15:10 to 15:40 am	<b>Break with refreshments;</b> in front of seminar room <b>111 (on the same floor)</b>

<i>Chair: J. Málek</i>	<i>Electrochemical systems</i>
15:40 – 16:00 (B-103)	<b>A. N. Beris (Delaware):</b> Non-Equilibrium Thermodynamics of Diffusion and Chemical Reactions in Multicomponent Systems
16:05 – 16:25 (B-103)	<b>R. Müller (WIAS):</b> Transport of solvated ions in nanopores: Modeling, asymptotics and simulation.
16:30 – 16:50 (B-103)	<b>P. Vágner (Charles University, WIAS):</b> Dielectric polarization within GENERIC
18:00 to 23:00	Dinner (within easy walking distance) <b>Restaurant Na Klárově</b> <b>U železné lávky 16, Praha</b> <a href="http://www.naklarove.cz">www.naklarove.cz</a>

### Sunday May 19

<i>Chair : P. Ván</i>	<i>Heat propagation</i>
9:00 – 9:20 (B-103)	<b>R. Kovács (MTA Wigner):</b> Non-equilibrium thermodynamics of ballistic propagation
9:25 – 9:45 (B-103)	<b>B.-D. Nie (Tsinghua):</b> The Lagrangian description of thermomass and the thermal potential based on GENERIC theory
9:50 – 10:10 (B-103)	<b>B.-Y. Cao (Tsinghua):</b> Heat transport and thermodynamics from nanoscale to macroscale
10:15 – 10:35 (B-103)	<b>M. Szücs (BME):</b> Generalized heat conduction equations in the GENERIC framework
10:40 to 11:05	<b>Break with refreshments; in front of seminar room 111 (on the same floor)</b>
<i>Chair: A. Gorban</i>	<i>Probability and statistical physics</i>
11:05 – 11:25 (B-103)	<b>M. Renger (WIAS):</b> A GENERIC formulation of a chemical reaction network from Onsager-Machlup theory
11:30 – 11:50 (B-103)	<b>L. Hong (Tsinghua):</b> Thermodynamic representations in the space of probability measures
11:55 – 12:15 (B-103)	<b>A. Montefusco (ETH):</b> Where do dissipation potentials come from?
12:20 to 13:30	Lunch <b>seminar room 111 (on the same floor)</b>
<i>Chair: M. Grmela</i>	<i>General non-equilibrium thermodynamics</i>
13:30 – 13:50 (B-103)	<b>B. Maschke (Lyon):</b> About contact Hamiltonian dynamics for Thermodynamic systems and its symplectification
13:55 – 14:15 (B-103)	<b>V. Průša (Charles University):</b> Thermodynamics and its implications for stability analysis of steady states in thermodynamically open systems
14:20 – 14:40 (B-103)	<b>A. Gorban (Leicester):</b> Entropy, Geometry, and our Grmela
	Closing of the meeting (and relocation to Barcelona for JETC starting on Tue ) with few words from <b>Miroslav</b> himself