

**„Perspectives in Applied and Computational Analysis“
Joint Workshop Hannover--Prague**

Tuesday, June 6th, 2017

14.00-14.50 J. Málek: *On analysis of several problems for implicitly constituted material models*

14.50-15.20 B. Matioc: *Modelling and mathematical aspects of fluid flows at low Reynolds numbers*

15.20-15.50 L. Adam: *Chance constrained problems: Application to gas networks*

15.50-16.20 break

16.20-16.50 A. Matioc: *On geophysical water waves*

16.50-17.40 O. Kreml: *On the Riemann problem for the 2D compressible isentropic Euler equations*

Wednesday, June 7th, 2017

Excursion of the Hannover group

Thursday, June 8th, 2017

9.00-9.50 Š. Nečasová: *Weak-strong uniqueness for fluid-rigid body system*

9.50-10.20 M. Michálek: *Existence theorems for instationary differential equations in fluid mechanics*

10.20-10.50 break

10.50-11.20 J. Escher: *Bounded traveling waves in thin films with gravity and insoluble surfactant*

11.20-11.50 F. Kemm: *On numerical gas dynamics and related problems*

lunch break

13.30-15.00 „Junior Session“ with short presentations by PhD students from Hannover:

K. Vassi: *Positivity preserving property for a hinged convex plate with stress*

T. Würth: *Mathematical modeling and analysis of temperature in MEMS*

I. Akramov: *Onsager's Conjecture in critical Besov space*

L. Hegerhorst: *Nonsmooth constrained optimization problems*

J. Zehetbauer: *On a model for populations with age and spatial structure*

16.00-18.00 Guided tour through Prague

Wine & beer & music event in the evening with participants from Hannover and Prague

Friday, June 9th, 2017

9.00-9.50 R. Liska: *Numerical methods for Lagrangian and indirect ALE hydrodynamics*

9.50-10.20 C. Lienstromberg: *On microelectromechanical systems with general permittivity*

10.20-10.50 break

10.50-11.20 M. Steinbach: *Mathematical optimization in gas transport*

11.20-11.50 F. Lippoth: *Modelling and analysis of osmotic cell swelling*

12.00-12.30 E. Wiedemann: *Mathematical analysis of turbulent flows*