

EVEQ 2012

International Summer School on Evolution Equations, Prague, Czech Republic, 9.-13. 7. 2012



Organizing institutions:

- Charles University in Prague,
- Faculty of Mathematics and Physics, Charles University
- Institute of Mathematics, Academy of Sciences of the Czech Republic

Activity of

- Jindřich Nečas Center for Mathematical Modeling.

Satellite meeting of

- the 6th European Congress of Mathematics

Accompanying event to

- 60th anniversary of the Faculty of Mathematics and Physics, Charles University in Prague.



Venue: Faculty of Mathematics and Physics, Malostranské nám. 25, Prague



EVEQ 2012 - Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8,30					
8,45		8.30-9.45			
9,00	OPENING	Rodnianski			
9,15			9.00-10.15	9.00-10.15	9.00-10.15
9,30			Abels	Constantin	Gérard-Varet
9,45	9.15-10.30	9.45-10.15			
10,00	Serfaty	COFFEE & CAKE			
10,15			10.15-10.45	10.15-10.45	10.15-10.45
10,30	10.30-11.00	10.15-11.30	COFFEE & CAKE	COFFEE & CAKE	COFFEE & CAKE
10,45	COFFEE & CAKE	Serfaty			
11,00			10.45-12.00	10.45-12.00	10.45-12.00
11,15	11.00-12.15		Serfaty	Abels	Stefanelli
11,30	Constantin	11.30-11.50			
11,45		COFFEE			
12,00					CLOSING
12,15	lunch	11.50-13.05	lunch	lunch	lunch
12,30		Gérard-Varet			
12,45					
13,00		lunch			
14,00		FREE AFTERNOON			
14,15	14.00-15.15		14.00-15.15	14.00-15.15	
14,30	Gérard-Varet		Poster session (1)	Poster session (2)	
14,45					
15,00					
15,15	15.15-15.45		15.15-15.45	15.15-15.45	
15,30	COFFEE & CAKE		COFFEE & CAKE	COFFEE & CAKE	
15,45			15.45-17.00	15.45-17.00	
16,00	15.45-17.00		Constantin	Rodnianski	
16,15	Stefanelli				
16,30					
16,45					
17,00	17.00-17.20	17.00-17.20	17.00-17.20		
17,15	COFFEE	COFFEE	COFFEE		
17,30					
17,45	17.20-18.35	17,20-18,35	17,20-18,35		
18,00	Abels	Rodnianski	Stefanelli		
18,15					
18,30					
18,45	18.35-		19.30-		
	Welcome Party		Conference dinner		



Jan Kratochvíl – dean of the faculty



Schedule of lectures, opening and chairmen:



Helmut Abels (Universität Regensburg):
On sharp and diffuse interface models for viscous two-phase flows



Adrian Constantin (Universität Wien):
Nonlinear water waves



David Gérard-Varet (Université Denis Diderot Paris 7):
Regularity issues in fluid-solid dynamics



Igor Rodnianski (Princeton University):
Evolution problem in general relativity



Sylvia Serfaty (Université Pierre et Marie Curie Paris 6):
Topics on Gamma-convergence of gradient flows and the Ginzburg-Landau equation



Ulisse Stefanelli (Istituto di Matematica Applicata e Tecnologie Informatiche, Pavia)
The WIDE principle



Poster sessions (1)

Wednesday 11. 7.



Alexander Kozhevnikov

On multi-weighted parabolic systems



Jakub Tichý

Boundary regularity of flows under perfect slip boundary conditions



Martina Hofmanová

Degenerate parabolic stochastic partial differential equations



Xian Liao

Wellposedness for low Mach number limit system



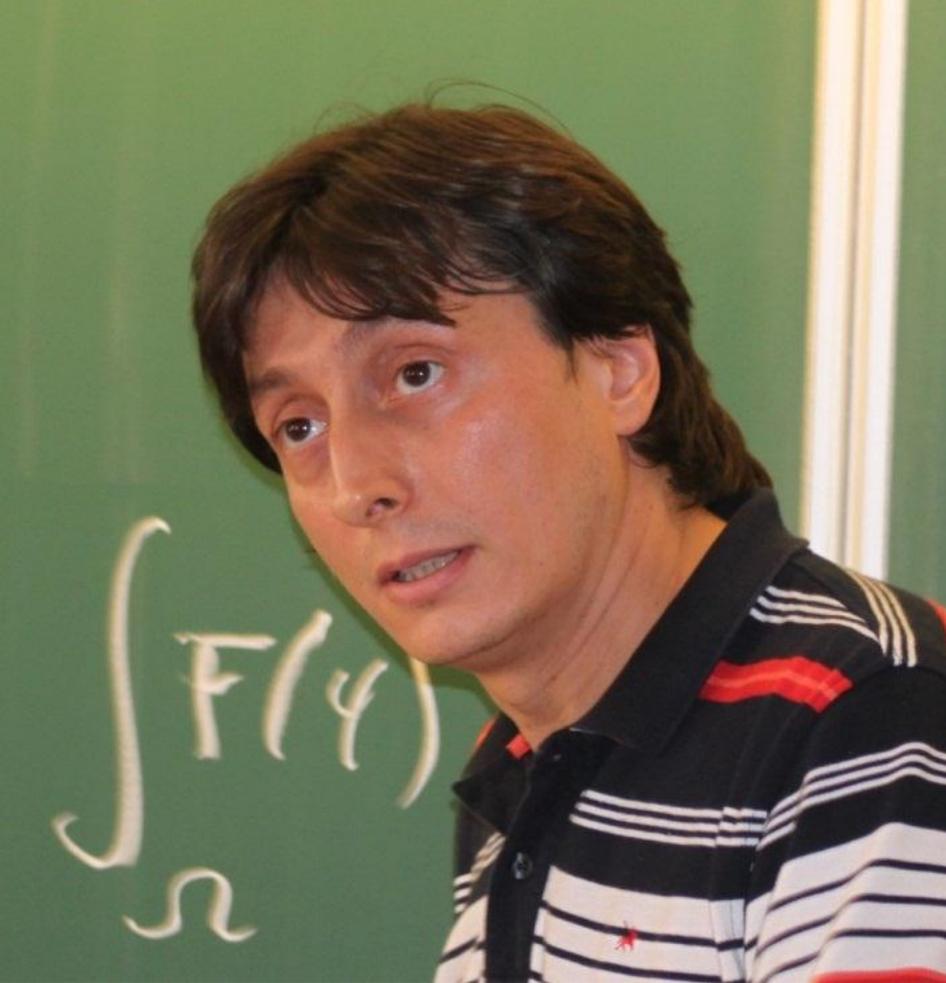
Francesco Fanelli

On the density-dependent incompressible Euler system in Besov spaces



Ilya Mogilevskiy

Numerical approach to a plane free boundary problem



Sergio Frigeri

Nonlocal diffuse-interface models for binary fluids



Ewelina Zatorska

Navier-Stokes equations for chemically reacting mixtures



Karoline Goetze

Free movement of a rigid body in
a viscoelastic fluid



Milan Pokorný

Time-periodic solutions to the full Navier-Stokes-Fourier system



Aneta Wróblewska

Motion of rigid bodies in a non-Newtonian fluids with nonstandard rheology



Tomáš Bárta

One-dimensional models of materials with memory



Václav Mácha

Partial Hölder regularity of steady flows in bounded domains



Daniel Lengeler

Global weak solutions for a fluid-shell interaction problem



Jan Březina

Asymptotic behavior of solutions to the compressible Navier-Stokes equation around a time-periodic parallel flow



Milena Matusik

Existence of classical solutions for parabolic functional differential equations with initial boundary conditions of Robin type



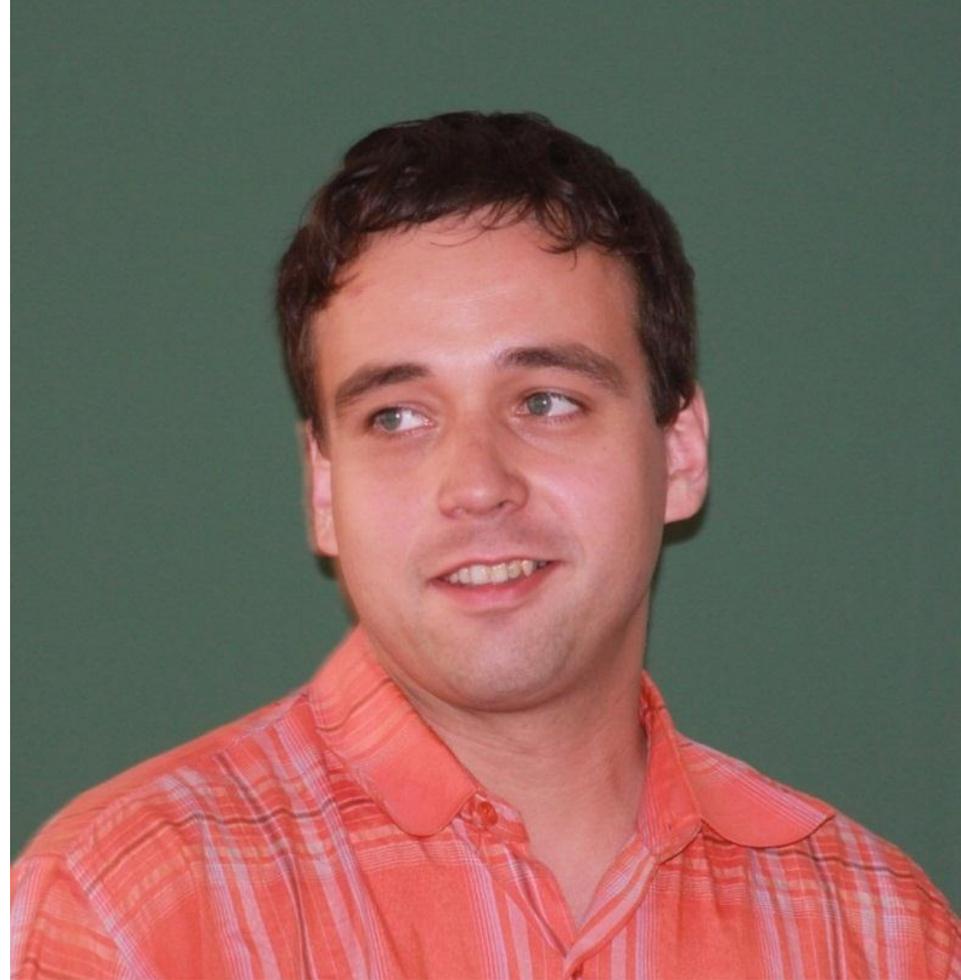
Adrian Karpowicz

The maximum principle for viscosity solutions of elliptic differential functional equations



Jan Papež

Algebraic error in the numerical solution of differential equations



Jaroslav Havrda

A model for ionized mixtures



Welcome party



Conference dinner



Conference photo – Thursday 12:10



Organizing committee:

- **Miroslav Bulíček**
- **Eduard Feireisl**
- **Pavle Krejčí**
- **Josef Málek**
- **Vít Průša**

Secretary:

- **Lenka Bauerová**
- **Jana Pešková**

