

Programme

EQUADIFF 11 International Conference on Differential Equations Czecho–Slovak series



Comenius University
Bratislava, Slovakia
July 25–29, 2005

Monday / July 25, 2005

Plenary talks (Lecture room 1)	
9:00 - 9:15	Opening ceremony
9:15 - 10:05	H. Amann
10:05 - 10:30	coffee break
10:30 - 11:20	H. Matano
11:25 - 12:15	M. Mimura

12:30-14:00	lunch
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Mini - symposia							
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
Title	On the Navier-Stokes flow with infinite energy	Rate independent processes and hysteresis	Numerical Software for PDEs	Applications of the calculus of variations	Qualitative studies of parabolic equations	Perturbations in ODE	Nonlinear diffusion and motion of interfaces
Organizer	Y.Giga	P. Krejčí	K.G. Siebert	P. Rabinowitz	P. Poláčik	F.Dumortier, P.Szmolyan	M. Beneš
14:30 - 14:55	Thierry Gallay	Alexander Mielke	Peter Boehm	Massimiliano Berti	Pavol Quittner	Freddy Dumortier	Michal Beneš
15:00 - 15:25	Yasunori Maekawa	Dmitrii Rachinskii	Robert Klöforn	Sergey Bolotin	Peter Poláčik	Peter Szmolyan	Tatsuyuki Nakaki
15:30 - 15:50	coffee break						
15:50 - 16:15	Jürgen Saal	Ulisse Stefanelli	Karsten Urban	Margherita Nolasco	Hirokazu Ninomiya	Nikola Popovic	Kenji Tomoeda
16:20 - 16:45	Yoshikazu Giga	Pavel Krejčí	Kunibert G. Siebert	Slawomir Rybicki	Yoshihisa Morita	André Vanderbauwhede	Yohei Kashima

Contributed talks

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	<i>Session 1</i>	<i>Session 2</i>	<i>Session 3</i>	<i>Session 4</i>	<i>Session 5</i>	<i>Session 6</i>	<i>Session 7</i>
17:00 - 17:15	Jörg Wolf	Petra Kordulová	Joachim Rang	Norimichi Hirano	Alexandre Carvalho	Tomoyuki Tanigawa	José Miguel
17:20 - 17:35	Milan Pokorný	Volker Reitmann	Tomáš Oberhuber	Miroslav Krbec	Juraj Húska	Francesca Ceragioli	Ivan Mojsej
17:40 - 17:55	Miroslav Pošta	Emil Minchev	Anna Kepczynska	Katarzyna Wojteczek	Jan Cholewa	Casey Cremins	Lukáš Maňásek
18:00 - 18:15	Matthias Geißert	Jana Kopfová	Karolina Kropielnicka	Ryuji Kajikiya	Anibal Rodríguez-Bernal	Katrin Gelfert	Petr Stehlík
18:20 - 18:35	Arup Bhattacharjee		Richard Liska	Radu Ignat	Cristina Marcelli	Alexander Boichuk	Ana Pedro

Monday

Plenary lectures

Herbert Amann

A new approach to quasilinear parabolic problems

Hiroshi Matano

Complete and incomplete blow-up in a nonlinear heat equation

Masayasu Mimura

Transient pattern formation in reaction–diffusion systems

Lecture room 1

Mini-symposium:

On the Navier–Stokes flow with infinite energy

organized by: Y. Giga

Thierry Gallay

Convergence to equilibrium in two-dimensional viscous flows

Yasunori Maekawa

Large time behaviors of derivatives of the vorticity for the two dimensional Navier–Stokes flow

Jürgen Saal

A uniform geostrophic flow affected by rotation: the Ekman boundary layer problem

Yoshikazu Giga

The Navier–Stokes flow with almost periodic initial data

Contributed talks

Jörg Wolf

Interior regularity of weak solutions to the equations of motion of a class of non-Newtonian fluid

Milan Pokorný

On a new approximation scheme for the steady compressible Navier–Stokes equations

Miroslav Pošta

Optimal control of Navier–Stokes equations by Oseen approximation

Matthias Geissert

Strong L^p -solutions of Navier–Stokes equations in the exterior of a rotating obstacle

Arup Bhattacharjee

On the dynamics of multi-component heat-conducting incompressible plane flow with temperature dependent viscosity

Lecture room 2

Mini-symposium:

Rate independent processes and hysteresis

organized by: P. Krejčí

Alexander Mielke

Energetic formulation of hysteresis problems, existence and uniqueness

Dmitrii Rachinskii

Equations with inverse Preisach operator

Ulisse Stefanelli

Sweeping processes with monotonicity

Pavel Krejčí

Nonresonance and energy decay of oscillations in hysteretic media

Contributed talks

Petra Kordulová

An example of discontinuous solution for a quasilinear hyperbolic equation with hysteresis

Volker Reitmann

Convergence in evolutionary variational inequalities with hysteresis nonlinearities

Emil Minchev

On a system of nonlinear PDEs with hysteresis effect

Jana Kopfová

Entropy condition for a quasilinear hyperbolic equation with hysteresis

Lecture room 3

Mini-symposium:

Numerical software for PDEs

organized by: K. G. Siebert

Peter Böhm

Diffpack - A flexible development framework for the numerical modeling and solution of partial differential equations

Robert Klöfkorn

DUNE - Distributed and Unified Numerics Environment

Karsten Urban

FLENS - A Flexible Library for Efficient Numerical Solutions

Kunibert G. Siebert

Concepts of the finite element toolbox ALBERTA

Contributed talks

Joachim Rang

New Rosenbrock methods of order 3 for PDAEs of Index 2

Tomáš Oberhuber

On a numerical scheme for the Willmore flow

Anna Kepczynska

Implicit difference methods for first order partial differential functional quasilinear equations

Karolina Kropielnicka

Implicit difference methods for parabolic functional differential equations

Richard Liska

Arbitrary Lagrangian Eulerian method for compressible plasma simulations

Lecture room 4

Mini-symposium:

Applications of the calculus of variations

organized by: P. Rabinowitz

Massimiliano Berti

Nonlinear oscillations in Hamiltonian PDEs

Sergey Bolotin

Shadowing collision chains of the 3 body problem

Margherita Nolasco

Vortices for some self-dual gauge field models

Sławomir Rybicki

Periodic solutions of Hamiltonian system in a neighborhood of a degenerate rest point

Contributed talks

Norimichi Hirano

Multiple existence of solutions for semilinear elliptic problems

Miroslav Krbeč

Fefferman's inequality and related topics

Katarzyna Wojteczek

Second order Hardy type integral inequalities in different classes of functions

Ryuji Kajikiya

Symmetric mountain pass lemma and multiple solutions of sublinear elliptic equations

Radu Ignat

Energy expansion and vortex location for a 2D rotating Bose–Einstein condensate

Lecture room 5

Mini-symposium:

Qualitative studies of parabolic equations

organized by: P. Poláčik

Pavol Quittner

Liouville type theorems for superlinear parabolic equations and applications

Peter Poláčik

Asymptotic symmetry of positive solutions of parabolic equations: bounded domains reconsidered

Hirokazu Ninomiya

The influence of diffusion and boundary conditions on blowup

Yoshihisa Morita

Some entire solutions to reaction–diffusion equations with bistable nonlinearity

Contributed talks

Alexandre Carvalho

Compact convergence and continuity of attractors

Juraj Húska

Harnack inequality and exponential separation for oblique derivative problems on Lipschitz domains

Jan W. Cholewa

Semilinear parabolic equations with critical nonlinearities

Aníbal Rodríguez-Bernal

Dissipative dynamics of reaction diffusion equations in R^N

Cristina Marcelli

Finite speed of propagation in monostable degenerate reaction–diffusion–convection equations

Lecture room 6

Mini-symposium:

Perturbations in ODE

organized by: F. Dumortier, P. Szmolyan

Freddy Dumortier

Bifurcation of relaxation oscillations

Peter Szmolyan

Blow-up analysis of delayed Hopf bifurcations

Nikola Popovic

Evans functions and blow-up for degenerate shock waves

André Vanderbauwhede

Degenerate subharmonic bifurcation in reversible systems

Contributed talks**Tomoyuki Tanigawa**

On oscillation of higher order nonlinear differential equations

Francesca Ceragioli

Switched systems, discontinuous ODEs and Zeno phenomenon

Casey Cremins

A semilinear Birkhoff–Kellogg theorem and application

Katrin Gelfert

Asymptotic behavior of bi-coupled slow-fast systems

Alexander Boichuk

A set of bounded solutions for perturbed differential and difference systems

Lecture room 7**Mini-symposium:**

Nonlinear diffusion and motion of interfaces

organized by: M. Beneš**Michal Beneš**

Quantitative aspects of microstructure formation in solidification

Tatsuyuki Nakaki

Approximations for some diffusion and interface problems using singular limit technique

Kenji Tomoeda

The support re-splitting phenomenon caused by the interaction between diffusion and absorption

Yohei Kashima

A finite element approximation of the Bean critical state model for superconductivity in 3D

Contributed talks**José J. Miguel**

Delay logistic model with control parameter

Ivan Mojsej

On third order advanced nonlinear differential equations

Lukáš Maňásek

On constructing a solution of a boundary value problem for functional differential equations

Petr Stehlík

On discrete boundary value problems

Ana M. Pedro

Oscillation and nonoscillation criteria for retarded functional differential equations

Tuesday / July 26, 2005

Plenary talks (Lecture room 1)	
9:00 - 9:50	J. Mallet-Paret
9:50 - 10:15	coffee break
10:15 - 11:05	J. Hulshof
11:10 - 12:00	G. Weiss
12:30-14:00	lunch

Mini - symposia							
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
Title	Evolution of crystalline interfaces	Asymptotic behaviour in fluid mechanics	Patterns in Reaction-Diffusion Systems	Nonlinear elliptic systems, theory and applications	Nonlinear parabolic problems without conditions at infinity	Dynamical systems and applications	Differential Equations with p-Laplacian and Related Topics
Organizer	A. Chambolle	G. Raugel	D. Hilhorst	Ph. Souplet	A. Gladkov	M. Fečkan	O.Došlý
14:30 - 14:55	Yoshikazu Giga	Dragos Iftimie	Harald Garcke	Masayasu Mimura	Andrey Shishkov	Jan Andres	Gabriella Bognár
15:00 - 15:25	Piotr Rybka	Genevieve Raugel	Cyrill Muratov	Nikolaos M. Stavrakakis	Alexander Gladkov	Flaviano Battelli	Ondřej Došlý
15:30 - 15:50	coffee break						
15:50 - 16:15	Matteo Novaga	Grzegorz Karch	Isamu Ohnishi	Boyan Sirakov	Janos Englander	Andrzej Bielecki	Norio Yoshida
16:20 - 16:45	Antonin Chambolle	Andro Mikelic	Danielle Hilhorst	Philippe Souplet		Barnabas M. Garay	Hwai-chiuan Wang

Contributed talks

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	<i>Session 1</i>	<i>Session 2</i>	<i>Session 3</i>	<i>Session 4</i>	<i>Session 5</i>	<i>Session 6</i>	<i>Session 7</i>
17:00 - 17:15	Vera Miljanovic	Yakov Goltser	Lajos Lóczi	Ángela Jimenéz-Casas	Dirk Blömker	Luisa Malaguti	Shin-Hwa Wang
17:20 - 17:35	Salvador Moll	Josef Kalas	Christian Pötzsche	Tsang-Hai Kuo	Lutz Recke	David Cheban	Humberto Ramos Quoirin
17:40 - 17:55	Przemyslaw Gorka	Jaromír Kuben	Milan Kubíček	Oldřich John	Violaine Roussier-Michon	Clementa Alonso-González	Satoshi Tanaka
18:00 - 18:15	Stephen Watson	Petr Kundrát	Martin Rasmussen	Eugen Viszus	Peter L. Simon	Imre Bozi	Jiří Benedikt
18:20 - 18:35	Richard Kollár	Katarína Makovinyiova	Pedro Lima	Niki Winter	Sebastian Meier		Jan Čepička

Tuesday

Plenary lectures

John Mallet-Paret

Crystallographic pinning in lattice differential equations

Josephus Hulshof

Free boundary problems in combustion

Georg S. Weiss

The singular limit of a reaction–diffusion system arising in solid combustion

Lecture room 1

Mini-symposium:

Evolution of crystalline interfaces

organized by: A. Chambolle

Yoshikazu Giga

An application of crystalline curvature to describe bunching phenomena

Piotr Rybka

The question of stability of facets of crystals growing from vapor

Matteo Novaga

Crystalline evolutions of convex sets

Antonin Chambolle

Approximation of the anisotropic or crystalline curvature flow

Contributed talks

Vera Miljanovic

On the Shockley–Read–Hall model: generation–recombination in semiconductors

Salvador Moll

A characterization of convex φ -calibrable sets in \mathbb{R}^N

Przemysław Górka

Evolution of crystals in three dimensions

Stephen J. Watson

The crystalline limit of the anisotropic Wilmore flow: coarsening dynamics and scaling laws

Richard Kollár

Stability of vortex solutions to nonlinear Schrödinger equations

Lecture room 2

Mini-symposium:

Asymptotic behaviour in fluid mechanics

organized by: G. Raugel

Dragoş Iftimie

The small obstacle limit in a viscous incompressible flow

Geneviève Raugel

Perturbed Navier–Stokes equations

Grzegorz Karch

Smooth and singular solutions to the incompressible Navier–Stokes system

Andro Mikelic

Method of homogenization applied to dispersion, convection and reaction in porous media

Contributed talks

Yakov Goltser

About an appearance of stationary resonance regimes for nonlinear integro-differential equation

Josef Kalas

Asymptotic properties of a two-dimensional differential system with delay

Jaromír Kuben

Asymptotic equivalence of systems of difference equations

Petr Kunderát

On asymptotic properties of linear delay differential equation with a forcing term

Katarína Makovinyiova

On the existence of Hopf bifurcation in an Open Economy Model

Lecture room 3

Mini-symposium:

Patterns in reaction–diffusion systems

organized by: D. Hilhorst

Harald Garcke

Patterns in multicomponent alloy solidification

Cyrill Muratov

Traveling wave solutions and propagation phenomena in gradient reaction–diffusion systems

Isamu Ohnishi

To be announced

Danielle Hilhorst

Peak solutions in an elliptic chemotaxis-like system

Contributed talks

Lajos Lóczy

Discretizations of ODE's near some bifurcation points

Christian Pötzsche

Dynamics near attractive integral manifolds under discretization

Milan Kubíček

Complex dynamics of CO oxidation in catalytic converter

Martin Rasmussen

Morse Decompositions of nonautonomous dynamical systems

Pedro Lima

Numerical approximation of singular boundary value problems for a nonlinear differential equation

Lecture room 4

Mini-symposium:

Nonlinear elliptic systems, theory and applications

organized by: Ph. Souplet

Masayasu Mimura

Cross-diffusion systems in biology

Nikolaos M. Stavrakakis

Eigenvalue questions on some quasilinear elliptic problems

Boyan Sirakov

A priori estimates, monotonicity and Liouville theorems for nonvariational elliptic systems

Philippe Souplet

Nonlinear elliptic systems and L^p_δ spaces

Contributed talks

Ángela Jiménez-Casas

Robin type conditions arising from concentrated potentials

Tsang-Hai Kuo

Some existence result to elliptic equations with semilinear coefficients

Oldřich John

Interior regularity for weak solutions of nonlinear second order elliptic and parabolic systems

Eugen Viszus

A remark on Morrey type regularity for nonlinear elliptic systems of second order

Niki Winter

$W^{2,p}$ -estimates at the boundary for solutions of fully nonlinear, uniformly elliptic equations

Lecture room 5

Mini-symposium:

Nonlinear parabolic problems without conditions at infinity

organized by: A. Gladkov

Andrey E. Shishkov

Propagation of support in multidimensional higher order degenerate diffusion-convection equation

Alexander Gladkov

The Cauchy problem without growth restrictions on the data at infinity

Janos Engländer

Uniqueness/nonuniqueness for positive solutions to a class of semilinear equations

Contributed talks

Dirk Blömker

Stochastic modulation equations

Lutz Recke

Local existence and uniqueness for quasilinear parabolic initial boundary value problems with non-smooth data

Violaine Roussier-Michon

Asymptotic behaviour of travelling waves in a bistable reaction diffusion equation with respect to non-integrable perturbations

Peter L. Simon

Evans function method for some combustion waves

Sebastian Meier

A distributed-microstructure model for diffusion and reaction in porous media

Lecture room 6

Mini-symposium:

Dynamical systems and applications

organized by: M. Fečkan

Jan Andres

Periodic solutions of dissipative systems revisited

Flaviano Battelli

Periodic solutions of symmetric elliptic singular systems

Andrzej Bielecki

Dynamical systems in artificial neural network

Barnabas M. Garay

Optimization and the Miranda theorem in detecting horseshoe-type chaos by computer

Contributed talks**Luisa Malaguti**

Boundary value problems in Banach spaces: a bound sets approach

David Cheban

Invariant manifolds and almost automorphic solutions of second-order monotone equations

Clementa Alonso-González

Infinitesimal Poincaré's return for saddle-connections

Imre Bozi

Computing homoclinic orbits for maps with Bogdanov–Takens point

Lecture room 7**Mini-symposium:**

Differential equations with p -Laplacian and related topics

organized by: O. Došlý**Gabriella Bognár**

Some properties of the qualilinear analogues of the Hill's equation

Ondřej Došlý

Principal solution of half-linear second order differential equations

Norio Yoshida

Oscillation criteria for half-linear partial differential equations via Picone's identity

Hwai-chiuan Wang

On domains with its indexes

Contributed talks**Shin-Hwa Wang**

Exact multiplicity of positive solutions of a p -Laplacian Dirichlet problem

Humberto Ramos Quoirin

A partial extension of the Courant nodal domain theorem to the p -laplacian

Satoshi Tanaka

Existence of solutions with prescribed numbers of zeros of two-point boundary value problems for the one-dimensional p -Laplacian

Jiří Benedikt

Quasilinear problems of the $2n^{\text{th}}$ -order

Jan Čepička

Comparison of analytical and numerical results for the p -Laplace equation

Wednesday / July 27, 2005

Plenary talks (Lecture room 1)	
9:00 - 9:50	E. Baensch
9:50 - 10:15	coffee break
10:15 - 11:05	R. Herbin
11:10 - 12:00	M. Rumpf
12:30-14:00	lunch

Wednesday

Plenary lectures

Eberhard Baensch

Finite element methods for free surface flow

Raphaèle Herbin

Analysis tools for finite volume methods in PDEs

Martin Rumpf

Variational problems in image and surface matching

Thursday / July 28, 2005

Plenary talks (Lecture room 1)	
9:00 - 9:50	P. Rabinowitz
9:50 - 10:15	coffee break
10:15 - 11:05	L. Veron
11:10 - 12:00	P. Drabek

12:30-14:00	lunch
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Mini - symposia							
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
Title	Nonlinear parabolic equations, approximation using finite volume	The Navier-Stokes Flow Past Rotating Obstacles	Free energy driven equations for phase change problems	Blow-up in nonlinear heat equations	Dissipative higher order evolution equations	Delay differential equations	New trends for hyperbolic equations and systems
Organizer	R. Eymard	M. Hieber	S. Luckhaus	H. Matano	Giacomelli, Novick-Cohen	T. Krisztin	T. Gallouet
14:30 - 14:55	Juergen Fuhrmann	Alex Mahalov	Harald Garcke	Noriko Mizoguchi	Guenther Grün	John Mallet-Paret	Raimund Bürger
15:00 - 15:25	Danielle Hilhorst	Sylvie Monniaux	Dietmar Hömberg	Philippe Souplet	Dejan Slepčev	Hans-Otto Walther	Miloslav Feistauer
15:30 - 15:50	coffee break						
15:50 - 16:15	Karol Mikula	Okihito Sawada	Thomas Blesgen	José M. Arrieta	John Barrett	Mihály Pituk	Julien Vovelle
16:20 - 16:45	Robert Eymard	Matthias Hieber	Stephan Luckhaus	Michael Winkler	Amy Novick-Cohen	Tibor Krisztin	Thierry Gallouet

Contributed talks

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	<i>Session 1</i>	<i>Session 2</i>	<i>Session 3</i>	<i>Session 4</i>	<i>Session 5</i>	<i>Session 6</i>	<i>Session 7</i>
17:00 - 17:15	Malte Peter	Svetlana Ogorodnikova	Alexander Domoshnitsky	Marco Fontelos	Maite Grau	Marcia Federson	Nikolaos M. Stavrakakis
17:20 - 17:35	Aleš Matas	Inara Yermachenko	Alejandro Vidal-López	Mayte Pérez-Llanos	Lászlo Horváth	Bernát Slezák	Agata Golaszewska
17:40 - 17:55	Rostislav Vodák	Felix Sadyrbaev	Jose Sabina de Lis	Noriaki Umeda	Milan Medved'	Zdenek Svoboda	Dalibor Pražák
18:00 - 18:15	Jan Francu	Luisa Morgado	Markus Lilli	Uri Elias	Petr Nečesal	Jozef Džurina	Tomasz Dlotko
18:20 - 18:35		Salvador Villegas	Petr Tomiczek	Aurelian Cernea	Feliz Minhós	Bernhard Lani-Wayda	Wojciech Czernous

Thursday

Plenary lectures

Paul Rabinowitz

Some aspects of an Aubry–Mather theory for PDE's

Laurent Véron

Capacitary estimates of solutions of semilinear parabolic equations

Pavel Drabek

The p -Laplacian – mascot of nonlinear analysis

Lecture room 1

Mini-symposium:

Nonlinear parabolic equations, approximation using finite volume methods

organized by: R. Eymard

Juergen Fuhrmann

Finite volume schemes for nonlinear convection–diffusion problems based on local Dirichlet problems

Danielle Hilhorst

A combined finite volume–nonconforming finite element scheme for a degenerate parabolic equation

Karol Mikula

Finite volume methods in image processing

Robert Eymard

Finite volumes schemes for nonlinear parabolic problems: a regularization method

Contributed talks

Malte A. Peter

Different scalings in homogenisation of reaction, diffusion and interfacial exchange in a two-phase medium

Aleš Matas

Existence, uniqueness and regularity of the solution of the String–Beam System

Rostislav Vodák

Asymptotic analysis of elastic curved rods

Jan Franců

Modeling of liquid flow in vaneless motors

Lecture room 2

Mini-symposium:

The Navier–Stokes flow past rotating obstacles

organized by: M. Hieber

Alex Mahalov

Non blow-up of the 3D Euler equations for a class of three-dimensional initial data in cylindrical domains

Sylvie Monniaux

Navier–Stokes equations in Lipschitz domains

Okihiko Sawada

Remarks on the incompressible Navier–Stokes flows for linearly growing initial data

Matthias Hieber

The Navier–Stokes flow in the exterior of a rotating obstacle

Contributed talks

Svetlana Ogorodnikova

Multiple solutions of nonlinear BVPs for equations with critical points

Inara Yermachenko

Multiple solutions of nonlinear BVPs by the quasilinearization process

Felix Sadyrbaev

On Nehari solutions

Luisa Morgado

Analytical-numerical approach to singular boundary value problems for an Emden/Fowler equation

Salvador Villegas

Optimal Lyapunov inequalities and applications to nonlinear problems

Lecture room 3

Mini-symposium:

Free energy driven equations for phase change problems

organized by: S. Luckhaus

Harald Garcke

Phase field models for surface diffusion

Dietmar Hömberg

On a thermomechanical model of surface heat treatments

Thomas Blesgen

On qualitative and quantitative mathematical models for diffusion induced segregation processes

Stephan Luckhaus

Nucleation of small balls for the Landau Ginzburg functional

Contributed talks

Alexander Domoshnitsky

Oscillation properties of functional equations in spaces of functions of several variables

Alejandro Vidal-López

Extremal equilibria for parabolic non-linear reaction–diffusion equations

Jose Sabina de Lis

Diffusion problems with bifurcation driven by the boundary conditions

Markus Lilli

Classical solutions for non-elliptic Euler–Lagrange equations via continuation

Petr Tomiczek

Saddle point theorem and Fredholm alternative

Lecture room 4

Mini-symposium:

Blow-up in nonlinear heat equations

organized by: H. Matano

Noriko Mizoguchi

Blowup problem for a supercritical heat equation

Philippe Souplet

Gradient blow-up and global existence for viscous Hamilton–Jacobi equations

José M. Arrieta

Blow up in reaction–diffusion equations with nonlinear boundary conditions

Michael Winkler

Optimal grow-up rate in a supercritical semilinear heat equation

Contributed talks**Marco Fontelos**

Finite time singularities in transport equations with nonlocal velocities and fluxes

Mayte Pérez-Llanos

Numerical blow-up for the p -Laplacian equation with a source

Noriaki Umeda

On blow up at space infinity for semilinear heat equations

Uri Elias

Critical points at infinity and blow up of solutions of autonomous polynomial differential systems

Aurelian Cernea

Necessary optimality conditions for differential-difference inclusions via derived cones

Lecture room 5**Mini-symposium:**

Dissipative higher order evolution equations

organized by: Giacomelli, Novick-Cohen

Günther Grün

Optimal lower bounds on waiting times for degenerate parabolic equations and systems

Dejan Slepčev

Coarsening in thin-film equations: upper bound on coarsening rate

John Barrett

Soluble surfactant spreading on a thin film

Amy Novick-Cohen

On a degenerate Allen–Cahn/Cahn–Hilliard system

Contributed talks**Maite Grau**

On the stability of periodic orbits for differential systems in \mathbb{R}^n

László Horváth

Special Bihari type integral inequalities

Milan Medved'

Nonlinear integral inequalities with singular kernels and their applications

Petr Nečesal

The beam operator and the Fucik spectrum

Feliz Minhós

Lower and upper solutions method for a fully nonlinear elastic beam equation simply supported

Lecture room 6**Mini-symposium:**

Delay differential equations

organized by: T. Krisztin

John Mallet-Paret

Singular State-Dependent Delay Equations: Asymptotics and Stability

Hans-Otto Walther

State-dependent delays, linearization, and periodic solutions

Mihály Pituk

A Perron type theorem for functional differential equations

Tibor Krisztin

Smooth invariant manifolds for state dependent FDEs

Contributed talks

Marcia Federson

Existence and impulsive stability for second order retarded differential equations

Bernát Slezák

On the noncontinuable solutions of retarded functional differential equations

Zdeněk Svoboda

Positive solutions of p -type retarded functional linear differential equations

Jozef Džurina

Asymptotic properties of third order differential equations with deviating arguments

Bernhard Lani-Wayda

Connecting orbits in analytical sine-like delay equations

Lecture room 7

Mini-symposium:

New trends for hyperbolic equations and systems

organized by: T. Gallouet

Raimund Bürger

Conservation laws and related equations with discontinuous flux modeling clarifier-thickener units

Miloslav Feistauer

Higher order methods for the numerical solution of the compressible Euler equations

Julien Vovelle

Conservation laws with flux with discontinuous coefficients: the question of uniqueness of solution

Thierry Gallouët

Numerical methods for hyperbolic systems with discontinuous coefficients or sources terms

Contributed talks

Nikolaos M. Stavrakakis

On some Klein–Gordon–Schrödinger type systems

Agata Gołaszewska

Carathéodory solutions to quasi-linear hyperbolic systems of partial differential equations with state dependent delays

Dalibor Pražák

A remark on characterization of entropy solutions using Colombeau's algebra of generalized functions

Tomasz Dłotko

Strongly damped wave equation in uniform spaces

Wojciech Czernous

Generalized solutions of mixed problems for first order partial functional differential equations

Friday / July 29, 2005

Plenary talks (Lecture room 1)	
9:00 - 9:50	S. Yakovenko
9:50 - 10:15	coffee break
10:15 - 11:05	C. Elliott
11:10 - 12:00	A. Mahalov
12:30-14:00	lunch

Mini - symposia							
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
Title	Navier-Stokes equations and related topics	Dynamics of patterns in nonlinear PDEs	Nonlinear parabolic problems: singular solutions	Critical numerical issues for transport problems	Qualitative properties of solutions to PDEs	Contributed talks (15 min)	
Organizer	E. Feireisl	B. Sandstede	A. Shishkov	J. Kačur	B. Kawohl		
14:30 - 14:55	Toshiaki Hishida	Thierry Gallay	Manuela Chaves	Vadym Aizinger	Rolando Magnanini	Francesca Papalini	
15:00 - 15:25	Yoshihiro Shibata	Hannes Uecker	Sergey Shmarev	Jozef Kačur	Thomas Bartsch	Robert Mařík	
15:30 - 15:50	coffee break						
15:50 - 16:15	Eduard Feireisl	Björn Sandstede	Robert Kersner	Peter Bastian	Bernd Kawohl	Jacek Tabor	
16:20 - 16:45	Reinhard Farwig	Karsten Matthies	Andrey Shishkov	Peter Frolkovič	Enzo Vitillaro	János Karsai	

Contributed talks

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
	<i>Session 1</i>	<i>Session 2</i>	<i>Session 3</i>	<i>Session 4</i>	<i>Session 5</i>	<i>Session 6</i>	<i>Session 7</i>
17:00 - 17:15	Hyeong Ohk Bae	Peter Rand	László Simon	Josef Dalík	J. Ignacio Tello	Frantisek Jaroš	Wiktor Radzki
17:20 - 17:35	Šárka Nečasová	Dimitrios Kravvaritis	Niall Dodds	Hideki Murakawa	Bodo Dittmar	Mohammad Mahdi Hosseini	Leonard Shilgba
17:40 - 17:55	Duc Huy Nguyen	Salah-Eddine Rebiai	Nikolaos Matzakos	Jiří Vala	Jiří Fišer	Nikos Yannakakis	Rafael O. Ramirez

Friday

Plenary lectures

Sergei Yakovenko

Hidden lattice structures and oscillatory behavior of systems of polynomial ordinary differential equations

Charlie Elliott

Finite elements and evolving surfaces

Alex Mahalov

Global regularity of the 3D Navier–Stokes equations with uniformly large initial vorticity

Lecture room 1

Mini-symposium:

Navier–Stokes equations and related topics

organized by: E. Feireisl

Toshiaki Hishida

Stationary Navier–Stokes flows around a rotating obstacle

Yoshihiro Shibata

On the Stokes equation with Neumann boundary condition.

Eduard Feireisl

On the mathematical theory of viscous, compressible, and heat conducting fluids

Reinhard Farwig

Suitable weak solutions of the Navier–Stokes equations in arbitrary unbounded domains

Contributed talks

Hyeong Ohk Bae

Temporal and spatial decay rates of Navier–Stokes solutions in an exterior domain

Šárka Nečasová

On the steady fall of a rigid body in linear viscous fluid

Duc Huy Nguyen

On the solvability of a class of stationary generalized Stokes problem

Lecture room 2

Mini-symposium:

Dynamics of patterns in nonlinear PDEs

organized by: B. Sandstede

Thierry Gallay

Existence and stability of asymmetric Burgers vortices

Hannes Uecker

Validity of amplitude equations for electro-convection in nematic liquid crystals

Björn Sandstede

Eigenvalues near the absolute spectrum of spiral waves

Karsten Matthies

Travelling waves in heterogenous media and exponential averaging

Contributed talks

Peter Rand

Asymptotic analysis of a nonlinear partial differential equation in a semicylinder

Dimitrios Kravvaritis

On a nonlinear evolution equation

Salah-Eddine Rebiai

Nonlinear boundary stabilization of the Schrödinger equation with variable coefficients

Lecture room 3

Mini-symposium:

Nonlinear parabolic problems: singular solutions

organized by: A. Shishkov

Manuela Chaves

On the growth rate of blowup solutions of semilinear and quasilinear equations of parabolic type

Sergey Shmarev

Elliptic equations with nonhomogeneous nonlinearity: existence and localization properties of solutions

Robert Kersner

Instantaneous extinction, step discontinuity and blow-up phenomena in reaction–diffusion theory

Andrey E. Shishkov

Higher order quasilinear parabolic equations with singular initial data

Contributed talks

László Simon

On non-uniformly parabolic functional differential equations

Niall Dodds

Spectral properties of non-local operators

Nikolaos M. Matzakos

Boundary value problems for strongly nonlinear differential inclusions

Lecture room 4

Mini-symposium:

Critical numerical issues for transport problems

organized by: J. Kačur

Vadym Aizinger

A discontinuous Galerkin method for flow and transport

Jozef Kačur

Solution of inverse problems in contaminant transport with adsorption

Peter Bastian

A monotone Eulerian–Lagrangian localized adjoint scheme for convection-dominated transport

Peter Frolkovič

High-resolution finite volume methods for advection equations on general grids

Contributed talks

Josef Dalík

Numerical modelling of the simultaneous heat and moisture transport in porous media

Hideki Murakawa

On a linear approximation scheme to the classical Stefan problem

Jiří Vala

On a numerical model of phase transformation in substitutional alloys

Lecture room 5

Mini-symposium:

Qualitative properties of solutions to PDEs

organized by: **B. Kawohl**

Rolando Magnanini

Stationary isothermic surfaces

Thomas Bartsch

Nodal solutions of semilinear elliptic equations

Bernd Kawohl

Overdetermined problems and the p -Laplacian

Enzo Vitillaro

Heat equation with dynamical boundary conditions of reactive type

Contributed talks

J. Ignacio Tello

On the stability of solutions for a mathematical model of PDEs arising in chemotaxis

Bodo Dittmar

Sums of free membrane eigenvalues

Jiří Fišer

Dimensions of attractors of iterated multifunction systems

Lecture room 6

Contributed talks:

Francesca Papalini

Non-autonomous boundary value problems on the real line

Robert Mařík

Riccati technique for half-linear PDE

Jacek Tabor

Oscillation almost everywhere

János Karsai

Attractivity results for nonlinearly damped second order oscillator equations

František Jaroš

Strict φ -disconjugacy of n -th order linear differential equations with delays

Mohammad Mahdi Hosseini

A modified spectral method for ODEs with non-analytic or impulse solution

Nikos Yannakakis

Some generalizations of the Lax–Milgram theorem

Lecture room 7

Contributed talks:

Wiktor Radzki

On the structure of the set of bifurcation points of periodic solutions for multiparameter Hamiltonian systems

Leonard K. Shilgba

On periodic and homoclinic orbits of a class of non-autonomous Hamiltonian systems

Rafael O. Ramirez

Inverse problem in celestial mechanics

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