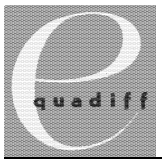

The Czechoslovak International Conference on
Differential Equations and Their Applications
EQUADIFF 10,
Prague, August 27–31, 2001

Monday, August 27

Plenary lectures—Room No. 100

Chair: K. Segeth

9^{45}–10^{35}	I. Babuška (Univ. of Texas at Austin)	*Verification and validation in computational mechanics. Some mathematical aspects*
10^{40}–11^{10}		Coffee Break

Chair: J. Jarník

11^{10}–12^{00}	Z. Artstein (Weizmann Inst., Rehovot)	*Averaging, invariant measures and singular perturbations*
12^{00}–14^{00}		Lunch Break

Invited lectures

Ordinary Differential Equations—Room No. 101

Chair: Z. Artstein

14^{00}–14^{30}	A. Lomtatidze (Math. Inst. Acad. Sci., Brno)	*On Cauchy problem for functional differential equations*
14^{35}–15^{05}	S. A. Mazanik (Belarus State Univ., Minsk)	*Lappo-Danilevski system*
15^{10}–15^{40}		Coffee Break

Partial Differential Equations—Room No. 120

Chair: W. Jäger

14^{00}–14^{30}	B. Fiedler (Free Univ. Berlin)	*Quantitative homogenization*
14^{35}–15^{05}	P. Poláčik (Komenský Univ., Bratislava)	*Center manifolds in the study of parabolic PDE's*
15^{10}–15^{40}		Coffee Break

Numerical Methods—Room No. 319

Chair: L. Tobiska

14^{00}–14^{30}	B. Franchi (Univ. of Bologna)	*Rectifiability in the Heisenberg group* (∗)

14^{35}–15^{05}	M. Dauge (Univ. de Rennes)	*Shell theory: Koiter estimates revisited*
15^{10}–15^{40}		Coffee Break

Short Communications

Ordinary Differential Equations—Room No. 101

15^{40}–15^{55}	M. Grossinho (Univ. Técnica de Lisboa)	*Upper and lower solutions for some higher order boundary value problems*
16^{00}–16^{15}	L. Jüttner (Palacký Univ., Olomouc)	*On the lower/uppper solutions technique for multivalued boundary value problems*
16^{20}–16^{35}	M. Kečkemétyová (Slovak Univ. of Technology in Bratislava)	*Properties of the set of solutions for nonlinear boundary value problem*
16^{40}–16^{55}	M. Tvrdý (Math. Inst. Acad. Sci., Prague)	*Some periodic boundary value problems with singularities*
17^{00}–17^{15}	B. Przeradzki (Univ. of Łódź)	*A nonlocal boundary value problem for pendulum-like equation*
17^{20}–17^{35}	F. Sadyrbaev (Univ. of Latvia, Riga)	*Nonlinear singular eigenvalue problems for second order equations*

Ordinary Differential Equations—Room No. 304

15^{40}–15^{55}	B. Rudolf (Slovak Univ. of Technology in Bratislava)	*On a generalized boundary value problem*
16^{00}–16^{15}	P. Vodstrčil (Masaryk Univ., Brno)	*On a three-point boundary value problem for second order linear functional differential equations*
16^{20}–16^{35}	Y. Yakubov (Tel-Aviv Univ.)	*Irregular boundary value problems for ordinary differential equations*
16^{40}–16^{55}	M. Zima (Pedagogic. Univ., Rzeszów)	*On positive solutions of second order boundary value problems on the half-line*
17^{00}–17^{15}	J. Baštinec (Univ. of Technology, Brno)	*Asymptotic behaviour of solutions of linear discrete equations*
17^{20}–17^{35}	Z. Došlá (Masaryk Univ., Brno)	*On quasilinear differential and difference equations*

Ordinary Differential Equations—Room No. 303

15^{40}–15^{55}	J. Andres (Palacký Univ., Olomouc)	*Bounded solutions of differential systems sequential vs direct approaches*
16^{00}–16^{15}	F. Battelli (Univ. of Ancona)	*Using residues to compute the Melnikov function*

16^{20}–16^{35}	G. R. Belitskii (Ben-Gurion Univ. of the Negev, Beer-Sheva)	*Sternberg-Chen theorem for equivariant Hamiltonian vector fields*
16^{40}–16^{55}	D. Bonheure (Universite Catholic de Lovain, Lovain-La-Neuve)	*On a class of forced nonlinear oscillators at resonance*
17^{00}–17^{15}	G. Farkas (Univ. of Appl. Sciences, Győr)	*Invariant foliations under numerics*
17^{20}–17^{35}	J. L. Flores (Univ. of Granada)	*Topological technic for the geodesic connectedness of some Lorentzian manifolds*

Partial Differential Equations—Room No. 347

15^{40}–15^{55}	J. A. Esquivel-Avila (Universidad Autonoma Metropolitana, Azcapotzalco)	*A nonlinear dissipative wave equation*
16^{00}–16^{15}	M. Fečkan (Komenský Univ., Bratislava)	*Forced vibrations of abstract undamped wave equations*
16^{20}–16^{35}	I. V. Andrianov (Pridneprovye State Acad., Dnepropetrovsk)	*Asymptotic method for nonlinear periodical vibrations of continuous structures*
16^{40}–16^{55}	H. Uesaka (Nihon Univ., Tokyo)	*Oscillation property for semilinear wave equations*
17^{00}–17^{15}	J. Härterich (Free Univ., Berlin)	*On the asymptotic behaviour of conservation laws with degenerate source terms*
17^{20}–17^{35}	S. Liebscher (Free Univ. Berlin)	*Oscillatory profiles of balance laws near bifurcations along manifolds of equilibria*

Partial Differential Equations—Room No. 120

15^{40}–15^{55}	M. Grobbelaar (Univ. of Pretoria)	*Stability of a thermo-elastic plate-beam structure*
16^{00}–16^{15}	V. Reitmann (Max-Planck-Institut für Physik, Dresden)	*Plastic wrinkling and flutter in sheet metal spinning*
16^{20}–16^{35}	T. Roubíček (Charles Univ., Prague)	*Certain variational inequality in a plasticity model for shape-memory alloys*
16^{40}–16^{55}	L. Pisani (Univ. Di Bari)	*Topological solitons and Born-Infeld type electromagnetic field*
17^{00}–17^{15}	J. Franců (Univ. of Technology, Brno)	*Homogenization of heat equation with hysteresis*
17^{20}–17^{35}	M. Ďurikovičová (Slovak Univ. of Technology in Bratislava)	*Topological properties of nonlinear evolution equations*

Partial Differential Equations—Room No. 310

15^{40}–15^{55}	M. Grinfeld (Univ. of Strathclyde, Glasgow)	*Memory driven instability in a diffusion process*
16^{00}–16^{15}	P. Šolín (Inst. Electric. Engineering Acad. Sci., Prague)	*Non-uniqueness of solution to quasi-1D compressible Euler equations*
16^{20}–16^{35}	S. Omata (Kanazawa Univ.)	*A numerical treatment of thin film movement with free boundary*
16^{40}–16^{55}	Y. A. Skiba (Nat. Autonomous Univ. of Mexico)	*On the stability of the Rossby-Haurwitz wave*
17^{00}–17^{15}	A. Labianca (Univ. de Bari)	*A global stability theorem in a system of P.D.E.s for anisotropic hydromagnetic flows*
17^{20}–17^{35}	M. Guzmán-Gómez (Universidad Autónoma Metropolitana Azcapotzalco, Mexico D.F.)	*Non existence of travelling wave solutions for a Davey-Stewartson system*

Numerical Methods—Room No. 319

15^{40}–15^{55}	P. Burda (Czech Technical Univ., Prague)	*A posteriori error estimates and adaptive mesh refinement applied to flow in a channel with corners*
16^{00}–16^{15}	L. Angermann (Otto-von-Guericke-Univ. Magdeburg)	*Node-centered finite volume schemes and nonconforming mixed FEM*
16^{20}–16^{35}	Z. Pospíšil (Masaryk Univ., Brno)	*Logistic equation on time scales*
16^{40}–16^{55}	Y. Ashida (Graduate School of Engineering, Yoshida-honmachi)	*The ultrasonic motor based on a longitudinal vibration of a cantilever*
17^{00}–17^{15}	N. Reguera (Univ. of Burgos)	*Error analysis of absorbing boundary conditions for a spatial discretization of Schrödinger-type equations*
17^{20}–17^{35}	Z. Uzelac (Univ. of Novi Sad)	*Quadratic spline difference schemes for singular perturbation problems of convection-diffusion type*

Tuesday, August 28

Plenary lectures—Room No. 100

Chair: I. Babuška

8^{50}– 9^{40}	M. Feistauer (Charles Univ., Prague)	*Discontinuous Galerkin methods for convection-diffusion problems*
9^{45}–10^{35}	W. Hackbusch (Max Planck Inst., Leipzig)	*Hierarchical matrices*
10^{40}–11^{10}		Coffee Break

Chair: O. John

11^{10}–12^{00}	W. Jäger (Univ. of Heidelberg)	*Navier-Stokes flow at interfaces and rough boundaries*
12^{00}–14^{00}		Lunch Break

Invited lectures

Ordinary Differential Equations—Room No. 101

Chair: S. A. Mazanik

14^{00}–14^{30}	M. Pituk (Univ. of Veszprém)	*Convergence to equilibria in a differential equation with small delay*
14^{35}–15^{05}	Y. Yi (Nat. Univ. of Singapore)	*Effective stability of generalized Hamiltonian systems*
15^{10}–15^{40}		Coffee Break

Partial Differential Equations—Room No. 120

Chair: W. Wendland

14^{00}–14^{30}	A. Ambrosetti (Scuola Intern. Sup. di Studi Avanzati, Trieste)	*On an elliptic problem arising in differential geometry*
14^{35}–15^{05}	F. Flandoli (Univ. di Pisa)	*On the singularities of solutions to stochastic Navier-Stokes equations*
15^{10}–15^{40}		Coffee Break

Numerical Methods—Room No. 319

Chair: K. Segeth

14^{00}–14^{30}	A. Quarteroni (École Polytech. Fédérale de Lausanne)	*Mathematical and numerical models in multiphysics*

14^{35}–15^{05}	L. Tobiska (Otto-von-Guericke-Univ. Magdeburg)	*Stabilised finite element approximations for the incompressible Navier-Stokes equations*
15^{10}–15^{40}		Coffee Break

Short Communications

Ordinary Differential Equations—Room No. 304

15^{40}–15^{55}	B. Buffoni (Swiss Federal Inst. of Technology, Lausanne)	*Homoclinic orbits in Hamiltonian systems as intersection points of two Lagrangian manifolds*
16^{00}–16^{15}	J. Giné (Univ. de Lleida)	*Sufficient conditions for a degenerate center*
16^{20}–16^{35}	J. Klaus (Techn. Univ., Ilmenau)	*Bifurcations of homoclinic orbits to a saddle-center for reversible systems*
16^{40}–16^{55}	M.-C. Ciocci (Univ. of Gent)	*Normal* $1:1$ *resonance of invariant tori in reversible systems*
17^{00}–17^{15}	J. Knežević-Miljanović (Univ. of Belgrade)	*Asymptotic properties of nonlinear differential equation*
17^{20}–17^{35}	N. Koksch (Techn. Univ. Dresden)	*Inertial manifolds for nonautonomous dynamical systems*

Ordinary Differential Equations—Room No. 101

15^{40}–15^{55}	A. Augustynowicz (Gdańsk Univ.)	*On some ordinary differential equations with advanced argument*
16^{00}–16^{15}	L. Berezansky (Ben-Gurion Univ. of the Negev, Beer-Sheva)	*Some oscillation properties of a linear neutral differential equation*
16^{20}–16^{35}	M. Cavani (Universidad de Oriente)	*Distributed delayed competing predators*
16^{40}–16^{55}	J. Čermák (Univ. of Technology, Brno)	*The asymptotic properties of solutions of a class of delay differential equations*
17^{00}–17^{15}	J. Diblík (Univ. of Technology, Brno)	*Positive and oscillating solutions of equation* $\dot{x}(t) = -c(t)x(t-\tau)$
17^{20}–17^{35}	F. Hartung (Univ. of Veszprém)	*Asymptotic stability of functional differential equations with state-dependent delays*

Partial Differential Equations—Room No. 347

15^{40}–15^{55}	L. Recke (Humboldt Univ. of Berlin)	*Applications of the implicit function theorem to elliptic boundary value problems with non-smooth data*
16^{00}–16^{15}	J. Bouchala (Technical Univ. of Ostrava)	*Landesman-Lazer type conditions and quasilinear elliptic equations*

16^{20}–16^{35}	J. Sanz (Univ. de Valladolid)	*Convergence, via summability, of formal power series solutions to a certain class of completely integrable Pfaffian systems*
16^{40}–16^{55}	J. Hegedűs (Univ. of Szeged)	*On the radially symmetric solutions of a class of nonlinear, nonlocal elliptic problems*
17^{00}–17^{15}	N. Hirano (Yokohama Nat. Univ.)	*Multiplicity of solutions for nonhomogeneous nonlinear elliptic equations with critical exponents*
17^{20}–17^{35}	D. Medková (Math. Inst. Acad. Sci., Prague)	*Continuously extendible solutions of the Robin problem for the Laplace equation*

Partial Differential Equations—Room No. 303

15^{40}–15^{55}	K. Asano (Kyoto Univ.)	*Boundary layer associated with the Navier-Stokes flow past a ball*
16^{00}–16^{15}	J. Stará (Charles Univ., Prague)	*Existence of smooth flows for a class of non Newtonian fluids in plane*
16^{20}–16^{35}	T. Nagasawa (Tôhoku Univ., Sendai)	*A missing term in the energy inequality for weak solutions to the Navier-Stokes equations*
16^{40}–16^{55}	M. Růžička (Univ. of Freiburg)	*On electrorheological fluids*
17^{00}–17^{15}	Š. Nečasová (Math. Inst. Acad. Sci., Prague)	*Asymptotic properties of the steady fall of a body in a viscous liquid*
17^{20}–17^{35}	M. Pokorný (Charles University, Prague)	*Regularity criterion for smoothness of axisymmetric Navier-Stokes equations*

Partial Differential Equations—Room No. 120

15^{40}–15^{55}	J. Filo (Komenský Univ., Bratislava)	*Homogenization of a boundary condition for the heat equation*
16^{00}–16^{15}	A. W. Turski (Silesian Univ., Katowice)	*Asymptotics of pseudodifferential parabolic equations*
16^{20}–16^{35}	A. Nazarov (St. Petersburg State Univ.)	*L_p-estimates for solutions of Dirichlet and Neumann problems to heat equation in the wedge of arbitrary codimension*
16^{40}–16^{55}	O. John (Charles Univ., Prague)	*Non-regularity of parabolic systems with bounded and measurable coefficients*
17^{00}–17^{15}	T. Kaminogo (Tohoku Gakuin Univ., Sendai)	*On topological degree to multi-valued solution map in a semilinear parabolic partial differential equation*
17^{20}–17^{35}	M. Winkler (Aachen Univ. of Technology)	*A critical exponent in a degenerate parabolic equation*

Numerical Methods—Room No. 319

15^{40}–15^{55}	I. Bock (Slovak Univ. of Technology in Bratislava)	*On integro-differential von Kármán system for vicsoelastic plates*
16^{00}–16^{15}	J. Chleboun (Math. Inst. Acad. Sci., Prague)	*Effects of uncertainties in the domain on the solution of Neumann and Dirichlet boundary value problems*
16^{20}–16^{35}	V. Chalupecký (Czech Techn. Univ., Prague)	*Image processing by means of parabolic differential equations of Allen-Cahn type*
16^{40}–16^{55}	A. Demlow (Cornell Univ., Ithaca)	*Sharply localized L_∞-estimates for mixed finite element methods*
17^{00}–17^{15}	J. Vala (Univ. of Technology, Brno)	*Two-scale convergence with respect to measures in continuum mechanics*
17^{20}–17^{35}	M. Vohralík (Czech Techn. Univ., Prague)	*Mixed-hybrid model of the fracture flow*

Wednesday, August 29

Invited lectures

Ordinary Differential Equations—Room No. 101

Chair: Y. Yi

8^{50}– 9^{20}	N. Fusco (Univ. degli Studi di Napoli)	*to be announced*
9^{25}– 9^{55}	J. Tabor (Jagiellonian Univ., Kraków)	*Differential equations in metric spaces*
10^{00}–10^{30}		Coffee Break

Partial Differential Equations—Room No. 120

Chair: A. Ambrosetti

8^{50}– 9^{20}	J. Prüss (Martin-Luther-Univ., Halle)	*Local wellposedness and analyticity of the solutions of a free boundary value problem for the Navier-Stokes equations*
9^{25}– 9^{55}	A. Lunardi (Parma Univ.)	*to be announced*
10^{00}–10^{30}		Coffee Break

Numerical Methods—Room No. 319

Chair: R. H. Nochetto

8^{50}– 9^{20}	M. Stynes (Nat. Univ. of Ireland, Cork)	*n-Widths for singularly perturbed problems*
9^{25}– 9^{55}	J. H. Brandts (Univ. of Utrecht)	*Some considerations on mixed finite element methods*
10^{00}–10^{30}		Coffee Break

Short Communications

Ordinary Differential Equations—Room No. 303

10^{30}–10^{45}	E. Liz (Universidad de Vigo, Vigo)	*On some extensions of 3/2-stability conditions by Wright and Yorke*
10^{50}–11^{05}	J. Marín (Universidad de Oriente, Cumaná)	*A class of competing models with discrete delays*

11^{10}–11^{25}	W. Kratz (Univ. of Ulm)	*Oscillation of differential and difference systems*
11^{30}–11^{45}	R. Hakl (Math. Inst. Acad. Sci., Brno)	*Some boundary value problems for FDE of non-Volterra's type*
11^{50}–12^{05}	S. H. Saker (A. Mickiewicz Univ., Poznań)	*Oscillation of second order neutral delay differential equations with variable coefficients*

Ordinary Differential Equations—Room No. 101

10^{30}–10^{45}	A. Sikorska-Nowak (A. Mickiewicz Univ., Poznań)	*The set of solutions of nonlinear integral equations in Banach spaces and Henstock-Kurzweil-Pettis integral*
10^{50}–11^{05}	A. Domoshnitsky (Research Inst., Ariel)	*Asymptotic properties of integro-differential equations*
11^{10}–11^{25}	Ya. M. Goltser (College of Judea and Samaria, Jerusalem)	*Floquet-Lyapunov theorems for integro-differential equations*
11^{30}–11^{45}	M. Kwapisz (Bydgoszcz Academy)	*On general differential-algebraic and integro-algebraic systems*
11^{50}–12^{05}	M. Medveď (Komenský Univ., Bratislava)	*Nonlinear integral and difference inequalities with singular kernels*

Ordinary Differential Equations—Room No. 304

10^{30}–10^{45}	J. Džurina (P.J. Šafárik Univ. in Košice)	*Oscillation criteria for second order nonlinear retarded differential equations*
10^{50}–11^{05}	L. Gorniewicz (Univ. of Nicholas Copernicus, Toruń)	*Periodic points and applications to ODE's*
11^{10}–11^{25}	J. Ohriska (P.J. Šafárik Univ. in Košice)	*Oscillation in noncanonical second order linear differential equations*
11^{30}–11^{45}	Z. Opluštil (Masaryk Univ., Brno)	*On oscillation and nonoscillation criteria for a two-dimensional system of first order nonlinear difference equations*
11^{50}–12^{05}	V. Taddei (Univ. of Modena & Reggion Emilia)	*Bound sets for differential inclusions with Floquet boundary conditions*

Partial Differential Equations—Room No. 347

10^{30}–10^{45}	A. Novick-Cohen (Technion, Haifa)	*On a phase field model with memory*

10^{50}–11^{05}	L. Simon (Eőtvös Loránd Univ., Budapest)	*On parabolic functional differential equations in unbounded domains*
11^{10}–11^{25}	T. Człapiński (Univ. of Gdańsk)	*The mixed problem for an infinite system of first order functional differential equations*
11^{30}–11^{45}	R. Schnaubelt (Univ. Halle (Saale))	*Feedbacks for non-autononmous regular linear systems*
11^{50}–12^{05}	V. Chrastinová (Univ. of Technology, Brno)	*A general controllability theorem*

Partial Differential Equations—Room No. 120

10^{30}–10^{45}	N. Ackermann (Math. Inst. Univ., Giessen)	*On a strongly indefinite Schrödinger equation with nonlocal superlinear part*
10^{50}–11^{05}	P. d'Avenia (Univ. degli studi di Bari)	*Infinitely many solitary waves in three space dimensions*
11^{10}–11^{25}	Y. Morita (Ryukoku Univ., Otsu)	*Stable solutions to Ginzburg-Landau equations in a thin domain*
11^{30}–11^{45}	A. Szulkin (Univ. of Stockholm)	*An asymptotically periodic Schrödinger equation with indefinite linear part*
11^{50}–12^{05}	S. E. Rebiai (Univ. of Batna)	*Boundary stabilization of the Schrödinger equation in almost star-shaped domain*

Numerical Methods—Room No. 319

10^{30}–10^{45}	M. Lukáčová (Univ. of Technology, Brno)	*Multi-dimensional schemes for systems of hyperbolic equations*
10^{50}–11^{05}	M. Beneš (Czech Techn. Univ., Prague)	*On a model of solidification with advection effects*
11^{10}–11^{25}	A. Durán (Univ. de Valladolid)	*Numerical behaviour of solitary waves in nonlinear dispersive equations*
11^{30}–11^{45}	D. Pancza (Slovak Univ. of Technology in Bratislava)	*On a full von Kármán system for viscoelastic Mindlin-Timoshenko plates*
11^{50}–12^{05}	E. Cuesta (Escuela Univ. Politecnica, Valladolid)	*A one-step second order method for fractional integro-differential equations in Banach spaces*

Trips

14^{00}–22^{00}

Thursday, August 30

Plenary lectures—Room No. 100

Chair: P. Quittner

8^{50}– 9^{40}	W. Wendland (Univ. of Stuttgart)	*On nonlinear Riemann-Hilbert problems*
9^{45}–10^{35}	O. Došlý (Math. Inst. Acad. Sci., Brno)	*Qualitative theory of half-linear second order differential equations*
10^{40}–11^{10}		Coffee Break

Chair: J. Prüss

11^{10}–12^{00}	I. Laine (Univ. of Joensuu)	*Painlevé differential equations in the complex plane*
12^{00}–14^{00}		Lunch Break

Invited lectures

Ordinary Differential Equations—Room No. 101

Chair: M. Dauge

14^{00}–14^{30}	S. A. Nazarov (St. Petersburg State Univ.)	*Localization effects for eigenfunctions near to the edge of a thin domain*
14^{35}–15^{05}	G. Warnecke (Otto-von-Guericke-Univ. Magdeburg)	*On measure solutions to the zero pressure gas model and their uniqueness*
15^{10}–15^{40}		Coffee Break

Partial Differential Equations—Room No. 120

Chair: A. Lunardi

14^{00}–14^{30}	P. Drábek (Univ. of West Bohemia, Plzeň)	*Some qualitative properties of quasilinear boundary value problems with the p-Laplacian*
14^{35}–15^{05}	A. A. Arkhipova (St-Peterburg State Univ.)	*Global existence for q-nonlinear nondiagonal parabolic systems*
15^{10}–15^{40}		Coffee Break

Numerical Methods—Room No. 319

Chair: M. Stynes

14^{00}–14^{30}	I. Hlaváček (Math. Inst. Acad. Sci., Prague)	*Worst scenario approach for elastoplasticity with hardening and uncertain data*
14^{35}–15^{05}	R. H. Nochetto (Univ. of Maryland, College Park)	*An adaptive Uzawa FEM for Stokes: convergence without the inf-sup*
15^{10}–15^{40}		Coffee Break

Short Communications

Ordinary Differential Equations—Room No. 304

15^{40}–15^{55}	Z. Afsharnezhad (Ferdowsi Univ. of Mashhad)	*Some conditions for nonlinear third differential equations to have periodic solutions*
16^{00}–16^{15}	M. Bartušek (Masaryk Univ., Brno)	*On existence of singular solutions*
16^{20}–16^{35}	A. Cabada (Univ. of Santiago de Compostela)	*Extremality results of explicit and implicit singular differential diffusion equations*
16^{40}–16^{55}	A. Cernea (Univ. of Buchurest)	*Viability for a class of nonconvex differential inclusions*

Ordinary Differential Equations—Room No. 101

15^{40}–15^{55}	J. Jaroš (Komenský Univ., Bratislava)	*On black- and white-hole solutions of second order nonlinear ordinary differential equations*
16^{00}–16^{15}	S. Matucci (Univ. of Florence)	*Zero convergent solutions of certain ordinary nonlinear systems*
16^{20}–16^{35}	S. Rybicki (Nicholas Copernicus Univ., Toruń)	*Global bifurcations of periodic solutions of the restricted three body problem*
16^{40}–16^{55}	Y. Kuzina (South Ukrainian State Pedagog. Univ., Odessa)	*The qualitative analysis of an initial value problem*

Ordinary Differential Equations—Room No. 310

15^{40}–15^{55}	R. L. Pouso (Univ. of Santiago de Compostela)	*On first order discontinuous scalar initial value problems*
16^{00}–16^{15}	R. Ramirez (Univ. Rovira i Virgili, Tarragena)	*Dynamics of the system with constraints*

16^{20}–16^{35}	D. Torres (Univ. de Aveiro)	*Regularity of minimizers in optimal control*
16^{40}–16^{55}	O. Zernov (South Ukrainian State Pedag. Univ., Odessa)	*Implicit initial value problems: solvability, asymptotics, number of solutions*

Partial Differential Equations—Room No. 347

15^{40}–15^{55}	S. V. Kravchuk (Univ. of South Australia, Mudgeeraba)	*On approximate solution to semi-linear elliptic boundary problem with small parameter at one higher derivative*
16^{00}–16^{15}	D. Apushkinskaya (Saarland Univ., Saarbrücken)	*Quasilinear elliptic Dirichlet problem in nonregular domains*
16^{20}–16^{35}	V. Liskevich (Univ. of Bristol)	*Exterior problem for a class of semilinear equations*
16^{40}–16^{55}	R. Stańczy (University of Łódź)	*Bounded solutions of nonlinear elliptic equations in unbounded domains*

Partial Differential Equations—Room No. 120

15^{40}–15^{55}	M. Kučera (Math. Inst. Acad. Sci., Prague)	*Bifurcation for variational inequalities based on implicit function theorem*
16^{00}–16^{15}	J. Eisner (Math. Inst. Acad. Sci., Prague)	*Destabilizing effect of multivalued boundary conditions for reaction-diffusion systems*
16^{20}–16^{35}	G. Smyrlis (National Technical Univ. of Athens)	*Nonlinear hemivariational inequalities*
16^{40}–16^{55}	K. Kikuchi (Shizuoka Univ., Hamamatsu)	*Constructing weak solutions in a direct variational method and an application of varifold theory (a recent result)*

Partial Differential Equations—Room No. 303

15^{40}–15^{55}	O. Lévêque (École Polytechnique Fédérale de Lausanne)	*Hyperbolic equations driven by boundary noises*
16^{00}–16^{15}	J. A. Langa (Univ. of Sevilla)	*Approximation of attractors for multivalued random dynamical systems*
16^{20}–16^{35}	J. Valero (Universidad Cardenal Herrera, Elche (Alicante))	*Attractors of nonautonomous multivalued dynamical systems*
16^{40}–16^{55}	J. Cholewa (Inst. of Math., Katowice)	*Global attractors in abstract parabolic problems*

Numerical Methods—Room No. 319

15^{40}–15^{55}	H. Gilsing (Humboldt Univ. of Berlin)	*On stability of the Euler scheme for affine stochastic delay differential equations*

16^{00}–16^{15}	A. Jalali (Inst. for Adv. Studies in Basic Sciences, Zanjan)	*Analytical expressions for homoclinic tangle*
16^{20}–16^{35}	P. M. Lima (Instituto Superior Técnico, Lisboa)	*Asymptotic and numerical analysis of a singular boundary-value problem of Emden-Fowler type*
16^{40}–16^{55}	J. Dalík (Univ. of Technology, Brno)	*Applications of quadratic interpolation polynomials in vertices of plane triangulation*

Poster Session

17^{00}–18^{00}

Friday, August 31

Plenary lectures—Room No. 100

Chair: T. Kilpeläinen

8^{50}– 9^{40}	M. Křížek (Math. Inst. Acad. Sci., Prague)	*Colouring and refining simplicial partitions in R^d*
9^{45}–10^{35}	E. Feireisl (Math. Inst. Acad. Sci., Prague)	*On some recent results on the existence and the long-time behaviour of solutions to the Navier-Stokes equations of compressible viscous fluids*
10^{40}–11^{10}		Coffee Break

Chair: J. Jarník

11^{10}–12^{00}	P. Quittner (Komenský Univ., Bratislava)	*A priori bounds of solutions of superlinear parabolic problems and applications: continuity of the blow-up time, existence of stationary and periodic solutions*
12^{00}–14^{00}		Lunch Break

Short Communications

Ordinary Differential Equations—Room No. 101

14^{00}–14^{15}	B. Krajc (Technical Univ. of Ostrava)	*Periodic solutions in a given set of differential systems*
14^{20}–14^{35}	T. Nishimoto (Kochi Univ. of Technology, Tosayamada)	*On the new phenomena of complex WKB method for higher order ordinary differential equation: connection formulas*
14^{40}–14^{55}	E. Petropoulou (Univ. of Patras)	*Analytic solutions of the Painlevé equations in the Banach space $H_1(\Delta)$*
15^{00}–15^{15}	P. Pokorný (Inst. of Chem. Technology, Prague)	*Zig-zag dynamical systems and their Baker-Campbell-Hausdorff formula*
15^{20}–15^{50}		Coffee Break
15^{50}–16^{05}	J. Kalas (Masaryk Univ., Brno)	*Asymptotic properties of a system of two differential equations with delay*
16^{10}–16^{25}	P. Řehák (Masaryk Univ., Brno)	*Decaying solutions of discrete systems*

Ordinary Differential Equations—Room No. 303

14^{00}–14^{15}	A. J. Ureña (Univ. de Granada)	*Many periodic orbits for dissipative, forced, entire pendulum-like equations*
14^{20}–14^{35}	L. Sanchez (CMAF Univ. of Lisbon)	*Heteroclinics for a class of fourth order conservative differential equations*
14^{40}–14^{55}	A. Szukala (A. Mickiewicz Univ., Poznań)	*Aronszajn type theorems for an M-th order differential equation in Banach spaces*
15^{00}–15^{15}	D. Ya. Khusainov (Univ. of Kiev)	*Stability and convergence decisions of nonautonomous systems with pure delay*
15^{20}–15^{50}		Coffee Break
15^{50}–16^{05}	C. J. E. Vanegas (Universidad Simón Bolívar, Caracas)	*Asymptotic solutions of linear integro-differential equations*
16^{10}–16^{25}	J. Manojlović (Univ. of Niš)	*Oscillations criteria for second order nonlinear differential equations involving integral averages*
16^{30}–16^{45}	M. Sobalová (Masaryk Univ., Brno)	*Asymptotic behaviour of nonoscillatory solutions of the fourth order differential equations*

Ordinary Differential Equations—Room No. 304

14^{00}–14^{15}	J. Šremr (Masaryk Univ., Brno)	*On periodic type BVP for first order FDE*
14^{20}–14^{35}	M. Švec (Komenský Univ., Bratislava)	*Some remarks about the boundary value problems*
14^{40}–14^{55}	L. Malaguti (Univ. of Modena & Reggion Emilia, Modena)	*On a second order singular boundary value problem*
15^{00}–15^{15}	P. Somora (Math. Inst. Acad. Sci., Bratislava)	*The number of solutions for the second order nonlinear boundary value problem via the root functions method*
15^{20}–15^{50}		Coffee Break
15^{50}–16^{05}	V. Tkachenko (Ben-Gurion Univ. of the Negev, Beer-Sheva)	*1-D periodic differential operators of order 4*
16^{10}–16^{25}	A. Prykarpatski (Univ. of Mining and Metallurgy, Kraków)	*On Picard-Fuchs type equations related with integral submanifolds imbedding mapping of integrable dynamical systems*
16^{30}–16^{45}	V. Gaiko (Belarus State Univ. of Informatics, Minsk)	*A global approach to Hilbert's sixteenth problem*

Partial Differential Equations—Room No. 347

14^{00}–14^{15}	K. Hayasida (Fukui Univ. of Technology)	*On the Dirichlet problem for prescribed mean curvature equations in some non-convex domains*
14^{20}–14^{35}	D. Ševčovič (Komenský Univ., Bratislava)	*A direct method for solving an anisotropic mean curvature flow of planar curve with an external force*
14^{40}–14^{55}	H. Tahara (Sophia Univ., Tokyo)	*On the singularities of solutions of nonlinear partial differential equations in the complex domain*
15^{00}–15^{15}	H. Yamazawa (Caritas College, Yokohama)	*Singular solutions for nonlinear first order partial differential equations*
15^{20}–15^{50}		Coffee break
15^{50}–16^{05}	M. Wolfrum (Weierstrass Inst. for Appl. Anal. and Stoch., Berlin)	*A new criterion for heteroclinic connections in scalar parabolic PDE*
16^{10}–16^{25}	K. Wojteczek (Techn. Univ. of Opole)	*On some further quadratic integral inequalities*
16^{30}–16^{45}	U. Raitums (Univ. of Latvia, Riga)	*Relaxation of quasilinear elliptic systems via A-quasiconvex envelopes*

Partial Differential Equations—Room No. 120

14^{00}–14^{15}	G.F. Ortegón (Univ. of Cadiz)	*A doubly degenerated elliptic systems*
14^{20}–14^{35}	E. Knobloch (Univ. of Leeds)	*New type of complex dynamics in the* 1 : 2 *spatial resonance*
14^{40}–14^{55}	B. Szomolay (Komenský Univ., Bratislava)	*On some nonlinear vibration equations*
15^{00}–15^{15}	E. Tchernykh (Moscow)	*On the behaviour of the solutions of parabolic equations with reversible time direction in a rectangular domain*
15^{20}–15^{50}		Coffee Break

Numerical Methods—Room No. 319

14^{00}–14^{15}	S. Sallam (Kuwait Univ.)	*Unconditionally stable C^1-cubic spline collocation method for solving parabolic equations*
14^{20}–14^{35}	J. Mikyška (Czech Techn. Univ., Prague)	*Numerical model of thermal flow in porous media*
14^{40}–14^{55}	M. Gachpazan (Damghan Sci. Univ., Damghan)	*A new approach for Stokes problem*

15^{00}–15^{15}	A. V. Kamyad (Ferdowsi Univ., Mashad)	*A new approach for solving nonlinear PDEs problem*

PARALLEL TALKS TIME TABLE

Monday, August 27

Invited Lectures

Section / Time	**ODE**	**PDE**	**NM**
	Room 101	**Room 120**	**Room 319**
14.00–14.30	A. Lomtatidze	B. Fiedler	B. Franchi
14.35–15.05	S. A. Mazanik	P. Poláčik	M. Dauge

Short Communications

Section / Time	**ODE**			**PDE**			**NM**
	Room 101	**Room 304**	**Room 303**	**Room 347**	**Room 120**	**Room 310**	**Room 319**
15.40–15.55	M. Grossinho	B. Rudolf	J. Andres	J. A. Esquivel-Avila	M. Grobbelaar	M. Grinfeld	P. Burda
16.00–16.15	L. Jüttner	P. Vodstrčil	F. Battelli	M. Fečkan	V. Reitmann	P. Šolín	L. Angermann
16.20–16.35	M. Kečkemétyová	Y. Yakubov	G. R. Belitskii	I. V. Andrianov	T. Roubíček	S. Omata	Z. Pospíšil
16.40–16.55	M. Tvrdý	M. Zima	D. Bonheure	H. Uesaka	L. Pisani	Y. A. Skiba	Y. Ashida
17.00–17.15	B. Przeradzki	J. Baštinec	G. Farkas	J. Härterich	J. Franců	A. Labianca	N. Reguera
17.20–17.35	F. Sadyrbaev	Z. Došlá	J. L. Flores	S. Liebscher	M. Ďurikovičová	M. Guzmán-Gómez	Z. Uzelac

Tuesday, August 28

Invited Lectures

Section / Time	**ODE**	**PDE**	**NM**
	Room 101	**Room 120**	**Room 319**
14.00–14.30	M. Pituk	A. Ambrosetti	A. Quarteroni
14.35–15.05	Y. Yi	F. Flandoli	L. Tobiska

Short Communications

Section / Time	**ODE**		**PDE**			**NM**
	Room 304	**Room 101**	**Room 347**	**Room 303**	**Room 120**	**Room 319**
15.40–15.55	B. Buffoni	A. Augustynowicz	L. Recke	K. Asano	J. Filo	I. Bock
16.00–16.15	J. Giné	L. Berezansky	J. Bouchala	J. Stará	A. W. Turski	J. Chleboun
16.20–16.35	J. Klaus	M. Cavani	J. Sanz	T. Nagasawa	A. Nazarov	V. Chalupecký
16.40–16.55	M.-C. Ciocci	J. Čermák	J. Hegedűs	M. Růžička	O. John	A. Demlow
17.00–17.15	J. Knežević-Miljanović	J. Diblík	N. Hirano	Š. Nečasová	T. Kaminogo	J. Vala
17.20–17.35	N. Koksch	F. Hartung	D. Medková	M. Pokorný	M. Winkler	M. Vohralík

Wednesday, August 29

Invited Lectures

Section / Time	**ODE**	**PDE**	**NM**
	Room 101	**Room 120**	**Room 319**
8.50–9.20	N. Fusco	J. Prüss	M. Stynes
9.25–9.55	J. Tabor	A. Lunardi	J. H. Brandts

Short Communications

Section / Time	**ODE**			**PDE**		**NM**
	Room 303	**Room 101**	**Room 304**	**Room 347**	**Room 120**	**Room 319**
10.30–10.45	E. Liz	A. Sikorska-Nowak	J. Džurina	A. Novick-Cohen	N. Ackermann	M. Lukáčová
10.50–11.05	J. Marín	A. Domoshnitsky	L. Górniewicz	L. Simon	P. d'Avenia	M. Beneš
11.10–11.25	W. Kratz	Ya. M. Goltser	J. Ohriska	T. Człapiński	Y. Morita	A. Durán
11.30–11.45	R. Hakl	M. Kwapisz	Z. Opluštil	R. Schnaubelt	A. Szulkin	D. Pancza
11.50–12.05	S. H. Saker	M. Medveď	V. Taddei	V. Chrastinová	S. E. Rebiai	E. Cuesta

Thursday, August 30

Invited Lectures

Section / Time	**ODE**	**PDE**	**NM**
	Room 101	**Room 120**	**Room 319**
14.00–14.30	S. A. Nazarov	P. Drábek	I. Hlaváček
14.35–15.05	G. Warnecke	A. A. Arkhipova	R. H. Nochetto

Short Communications

Section / Time	**ODE**			**PDE**			**NM**
	Room 304	**Room 101**	**Room 310**	**Room 347**	**Room 120**	**Room 303**	**Room 319**
15.40–15.55	Z. Afzharnezhad	J. Jaroš	R. L. Pouso	S. V. Kravchuk	M. Kučera	O. Lévêque	H. Gilsing
16.00–16.15	M. Bartušek	S. Matucci	R. Ramirez	D. Apushkinskaya	J. Eisner	J. A. Langa	A. Jalali
16.20–16.35	A. Cabada	S. Rybicki	D. Torres	V. Liskevich	G. Smyrlis	J. Valero	P. M. Lima
16.40–16.55	A. Cernea	Y. Kuzina	O. Zernov	R. Stańczy	K. Kikuchi	J. Cholewa	J. Dalík

Friday, August 31

Short Communications

Section / Time	ODE			PDE		NM
	Room 101	**Room 303**	**Room 304**	**Room 347**	**Room 120**	**Room 319**
14.00–14.15	B. Krajc	A. J. Ureña	J. Šremr	K. Hayasida	G. F. Ortegón	S. Sallam
14.20–14.35	T. Nishimoto	L. Sanchez	M. Švec	D. Ševčovič	E. Knobloch	J. Mikyška
14.40–14.55	E. Petropoulou	A. Szukala	L. Malaguti	H. Tahara	B. Szomolay	M. Gachpazan
15.00–15.15	P. Pokorný	D. Ya. Khusainov	P. Somora	H. Yamazawa	E. Tchernykh	A. V. Kamyad
15.50–16.05	J. Kalas	C. J. E. Vanegas	V. Tkachenko	M. Wolfrum		
16.10–16.25	P. Řehák	J. Manojlović	A. Prykarpatskii	K. Wojteczek		
16.30–16.45		M. Sobalová	V. Gaiko	U. Raitums		

ODE ... Ordinary Differential Equations PDE ... Partial Differential Equations NM ... Numerical Methods

LIST OF POSTERS

L. Adamec (Masaryk Univ., Brno)	*A partial generalization of Diliberto's theorem for certain differential equations of higher dimension*
M. A. Amer (Mansoura Univ.)	*Constructive solutions to nonlinear multiparameter eigenvalue problems in L_p spaces*
M. Cichoń (A. Mickiewicz Univ., Poznań)	*On solutions of differential equations and inclusions in Banach spaces*
P. Girg (Univ. of West Bohemia, Plzeň)	*Fredholm alternative for the p-Laplacian and the bifurcation from the infinity*
D. Hricišáková (Univ. of Trenčín)	*not available at the time of printing*
J. Kuben (Military Academy, Brno)	*Asymptotic equivalence of second order difference equations*
M. Kubíček (Inst. of Chem. Technology, Prague)	*Numerical analysis of wave solutions in reaction-diffusion systems*
D. Lacková (Techn. Univ. of Košice)	*The asymptotic properties of the solutions of the N-th order neutral differential equation*
M. Lustyk (Univ. of Mining and Metallurgy, Kraków)	*Discrete approximation scheme for evolution equations with initial boundary conditions within the Lie algebraic approach*
C. Marcelli (Univ. of Ancona)	*Travelling wavefronts in reaction-diffusion equations with convection effects and non-regular terms*
D. Mirzov (Adygeia State Univ., Maikop)	*On principal solutions of one system of the nonlinear differential equations*
A. Nadolski (Univ. of Gdańsk)	*Hyperbolic functional differential problems with unbounded delay*
W. Nowakowska (Poznań Univ. of Technology)	*Oscillatory properties of iterative functional equations*
M. Ohmiya (Doshisha Univ., Kyotanabe)	*Darboux transformation of Lamé-Ince potentials and iso-monodromic deformation on the torus*
F. Papalini (Univ. of Ancona)	*A quasilinear Neumann problem with discontinuous nonlinearity*
G. Planas (Univ. of Campinas)	*Weak solutions of a phase-field model for an alloy with thermal properties*

I. Pokorný (Techn. Univ. of Košice)	*Parallel realization of the finite difference method solution of the Poisson-Boltzmann equation*
B. Půža (Masaryk Univ., Brno)	*not available at the time of printing*
J. Rang (Otto-von Guericke-Univ. Magdeburg)	*From discretely located to spatially interpolated forest meteorological data—reconstruction of missing values by approximate estimation of forest meteorogical data*
J. Řezníčková (Masaryk Univ., Brno)	*Regular half-linear second order differential equations*
S. Romero (Universidad de Oriente, Cumana)	*Simulations on the chemostat food chain model with delay*
N. Sadovskaia (Universidad Politecnica de Catalunya, Barcelona)	*Inverse problem of celestial mechanics*
F. Schilder (Institut für Mathematik, Imenau)	*Computation and continuation of invariant 2-tori*
P. L. Simon (Univ. of Leeds)	*Bifurcations in a flame propagation model*
A. Szawiola (Poznań Univ. of Technology)	*Some oscillation criteria for differential equations with deviated argument*
D. Škrabáková (Masaryk Univ., Brno)	*Borůvka's theory of phases for symplectic systems*
P. Šolín (Inst. Electric. Engineering Acad. Sci., Prague)	*Fieldless methods for the simulation of stationary and nonstationary induction heating*
A. Wyrwińska (Poznań Univ. of Technology)	*Oscillatory properties of solutions of difference equations*

LIST OF PARTICIPANTS

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