

# EQUADIFF 10

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Equadiff 10 CD ROM

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CZECHOSLOVAK INTERNATIONAL CONFERENCE ON DIFFERENTIAL  
EQUATIONS AND THEIR APPLICATIONS, PRAGUE, AUGUST 27–31, 2001

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# EQUADIFF 10

## CD ROM

edited by

**M. Krbec, J. Kuben, J. Vosmanský**



**Czechoslovak International Conference  
on Differential Equations and Their Applications**

Prague, Czech Republic, August 27–31, 2001

**EQUADIFF 10**



held under the auspices of

**Helena Illnerová**  
President  
Academy of Sciences  
of the Czech Republic

**Ivan Wilhelm**  
Rector Magnificus  
Charles University  
in Prague

organized by

**Mathematical Institute  
Academy of Sciences of the Czech Republic**

in cooperation with

**Charles University, Faculty of Mathematics and Physics,**  
Union of Czech Mathematicians and Physicists

and other Czech and Slovak institutions  
of research and higher learning

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## Medals awarded on the occasion of EQUADIFF 10

In the opening session of the conference Pavel Pudlák (Mathematical Institute AS CR) obtained the Bernard Bolzano Honorary Medal for Merits in Mathematical Sciences, an honour awarded to distinguished scientists by the Academy of Sciences of the Czech Republic.

The Mathematical Scientific Section of the Union of Czech Mathematicians and Physicists had decided to award four foreign and three Czech and Slovak mathematicians its Medal for Merits in Mathematics on the occasion of the 10th EQUADIFF conference:

Constantin Corduneanu (University of Texas, Arlington),  
Pierre-Arnaud Raviart (University of Pierre and Marie Curie),  
Andrzej Szulkin (University of Stockholm), and  
Wolfgang Wendland (University of Stuttgart)

received the Medal for their scientific results, for longstanding close professional contacts with Czech mathematicians and, last but not least, for their repeated significant contributions to the EQUADIFF conferences;

Pavol Brunovský (Komenský University, Bratislava),  
Vladimír Doležal (Mathematical Institute AS CR, Prague), and  
Jaromír Vosmanský (Masaryk University, Brno)

were awarded the Medal for their scientific results, longstanding organizational work in mathematics and, last but not least, for their repeated significant contribution to the organization of the EQUADIFF conferences.

Those of the honoured mathematicians personally present at the conference received the medals at the Welcome Party, organized at the Faculty of Law of Charles University, the venue of the conference.

## Preface

The tradition of the Czechoslovak EQUADIFF conferences dates back to 1962 when EQUADIFF 1 was organized in Prague. Subsequent conferences held in Bratislava (1966, 1981, 1993), Brno (1972, 1985, 1997) and Prague (1977, 1989) turned EQUADIFF conferences into the world's oldest series of comprehensive conferences on differential equations. EQUADIFF is at present one of the most important and biggest conferences of this kind.

The Czechoslovak International Conference on Differential Equations and Their Applications EQUADIFF 10 was held in Prague, August 27-31, 2001. It was organized by the Mathematical Institute of the Academy of Sciences of the Czech Republic in cooperation with the Faculty of Mathematics and Physics of Charles University, Union of Czech Mathematicians and Physicists and other Czech and Slovak institutions of research and higher learning, and held under the auspices of Prof. Helena Illnerová, the President of the Academy of Sciences of the Czech Republic, and of Prof. Ivan Wilhelm, the Rector Magnificus of Charles University in Prague. EQUADIFF 10 was attended by 316 participants from 40 countries and more than 40 accompanying persons and guests.

The scientific program consisted of 11 plenary lectures and 24 invited lectures in sections. Altogether 248 papers were presented as communications, posters or extended abstracts, which were considered to be equivalent forms of presentation.

On this CD ROM you will find 21 contributions by invited speakers (plenary and section lectures) in the part INVITED LECTURES and 45 papers of participants in the part PAPERS, of those accepted for presentation in one of the forms mentioned above. It is the second CD ROM devoted to the EQUADIFF conference series (the first one appeared after the previous conference in Brno in 1997). The advantage of it is the chance to publish papers and material of the conference in a portable form relatively shortly after the conference and to put additional material on it at the same time. We believe that readers will find this CD useful and very handy due to the used hypertext format, making an easy orientation and browsing possible.

All presented papers of invited speakers and participants are authors' versions. We have transferred the texts by invited speakers into the corresponding hypertext form, contributions by participants were submitted already in this format. We tried hard to work with care, however, with the considerable volume of work to be done we apologize for any possible mistake which might occur.

The part INVITED LECTURES was prepared by Miroslav Krbeč and Jaromír Kuben. Papers in this part will appear also in the standard hard copy Proceedings as one of the volumes of *Mathematica Bohemica* (ISSN 0862-7959) in 2002 after regular reviewing process. The credit for the part PAPERS goes to Jaromír Kuben and Jaromír Vosmanský.

Apart from this we have placed here the booklet (in the pdf format) containing all available abstracts of talks, posters and the enlarged abstracts (EQUADIFF 10,

ABSTRACTS, POSTERS, EXTENDED ABSTRACTS), the detailed program of the conference, the brief schedule of all parallel talks, and a list of posters.

We have tried to recall memories of EQUADIFF 10 with putting a lot of photographs here. (Windows users might find practical to use the (freeware, rather fast, and supporting a lot of formats) program IrfanView for going through these directories.) Some of these photographs in a corresponding lower quality as well as the whole EQUADIFF 10 CD ROM are also available at the conference website <http://www.math.cas.cz/~equadiff>. There are some “official” photographs and also those made by our colleagues Jan Franců, Helena Holovská, and Milan Tvrdý. Moreover, we thank to Milan Tvrdý for time consuming technical work.

Individual contribution can naturally be printed, using e.g. the Acrobat Reader. The hypertext format with built-in machinery of links to parts of this CD and of numerous links within the documents themselves is, however, primarily intended for reading on the screen. We believe that readers will find this CD idea useful.

March 2002

Editors