

# EQUADIFF 9

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Equadiff 9 Proceedings

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CONFERENCE ON DIFFERENTIAL EQUATIONS AND  
THEIR APPLICATIONS, BRNO, AUGUST 25 – 29, 1997

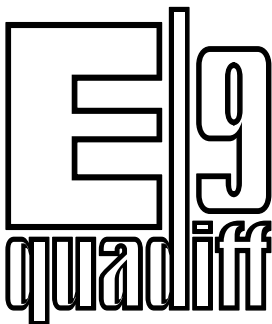
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# Equadiff 9

## Proceedings

edited by

R. P. Agarwal, F. Neuman, J. Vosmanský



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EQUADIFF 9 • MASARYK UNIVERSITY

BRNO 1998

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## Preface

The tradition of the Czechoslovak EQUADIFF conferences dates back to 1962 when EQUADIFF 1 was organized in Prague. In addition to 160 local participants it was attended by 75 foreign mathematicians. Subsequent conferences held in Bratislava (1966, 1981, 1993), Brno (1972, 1985) and Prague (1977, 1989) turned EQUADIFF 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 Conference on Differential Equations and Their Applications EQUADIFF 9 was held in Brno, August 25–29, 1997. It was organized by the [Masaryk University](#), Brno in cooperation with [Mathematical Institute](#) of the Academy of Sciences, [Technical University](#) Brno, Union of Czech Mathematicians and Physicists, Union of Slovak Mathematicians and Physicists and other Czech scientific institutions with support of the [International Mathematical Union](#). EQUADIFF 9 was attended by 269 participants from 32 countries and more than 50 accompanying persons and other guests.

EQUADIFF 9 was prepared by the Organizing Committee presided by F. Neuman, chairman, J. Vosmanský, executive secretary, Z. Došlá, head of the Equadiff Office, and other members J. Diblík, O. Došlý, J. Franců, J. Kalas, J. Kuben, Z. Pospíšil and J. Šimša.

The scientific program was prepared by the Scientific Committee. It consisted of the following Czech and Slovak mathematicians: P. Drábek, J. Haslinger, J. Jaroš, J. Kačur, J. Milota, J. Nečas, F. Neuman (chairman) and † M. Zlámal. The invited speakers have been proposed by the international Honorary and Advisory Board, consisted of R. P. Agarwal, I. Babuška, V. E. Barbu, P. Brunovský, W. N. Everitt, A. Friedman, J. K. Hale, W. Jäger, I. T. Kiguradze, K. Kirschgässner, J. Kurzweil (honorary chairman), V. Lakshmikantham, I. Marek, J. Mawhin, J. Nečas, M. Ráb, K. Rektorys, M. Švec, R. Temam, W. L. Wendland and † M. Zlámal.

The scientific program comprised 8 plenary lectures and 34 main lectures in the following sections:

1. Ordinary differential equations,
2. Partial differential equations,
3. Numerical methods and applications.

In addition 208 papers were presented

- a) as communications in simultaneous subsections (112),
- b) at the poster session (31),
- c) in the form of enlarged abstracts (65).

Besides the scientific program the participants could enjoy a rich social program (e.g. Welcome Party at the Brno castle Špilberk, Glass of wine and Concert, Audience with Mayor of Brno, Trips and Farewell Party in wine cellar Queen Eliška).

This volume contains 12 survey papers mainly by the plenary speakers.

Together with this Proceedings the following EQUADIFF 9 publications have been prepared:

- EQUADIFF 9 issue of [Archivum mathematicum](#) (Tomus 34, 1998, No. 1, 232 pp.) containing 20 papers by invited speakers (published in May 1998),
- CD ROM containing, in electronic form, an Equadiff 9 issue of Archivum mathematicum, the Proceedings and 31 other papers submitted by the participants of the conference as well as other conference material (e.g. Abstracts, List of participants, and Program).

Brno, May 1998

Editors