EQUADIFF 7

Preface

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PREFACE

The tradition of Czechoslovak Conferences on Differential Equations and Their Applications EQUADIFF goes back to the year 1962, when the first EQUADIFF conference took place in Prague with the attendance of 160 Czechoslovak and 75 foreign participants. Since then the EQUADIFF conferences were held in Bratislava (1966, 1983), Brno (1972, 1985) and Prague (1977, 1989), and they attracted a constantly growing number of mathematicians from all over the world.

The Seventh Czechoslovak Conference on Differential Equations and Their Applications EQUADIFF 7 was held in Prague, August 21-25, 1989, under the auspices of Rector of Charles University Prof. Z. Češka, member of the Czechoslovak Academy of Sciences, and Vicepresident of the Czechoslovak Academy of Sciences Prof. S. Kubík, member of the Czechoslovak Academy of Sciences. It was organized by the Mathematical Institute of the Czechoslovak Academy of Sciences in cooperation with the Faculty of Mathematics and Physics of Charles University, the Czech Technical University, the Union of Czechoslovak Mathematicians and Physicists and other Czechoslovak institutions, with support of the International Mathematical Union. The Organizing Committee consisted of J. Kurzweil (Chairman), J. Jarník (Secretary), J. Brilla, P. Drábek, M. Greguš, F. Jirásek, A. Kufner, M. Laitoch, V. Lovicar, J. Lukeš, I. Marek, J. Moravčík, J. Nečas, F. Neuman, M. Práger, J. Práglová, M. Ráb, K. Rektorys, M. Zlámal and L. Hörmander (representative of IMU).

The scientific program of the conference included 10 invited plenary lectures, 65 invited lectures in three sections (Ordinary Differential Equations - 20, Partial Differential Equations - 18, Numerical Methods and Applications - 27), and 207 short communications in 9 subsections. Besides, 33 participants presented their results at the poster session while 105 exploited the possibility to publish them in the special volumes of Enlarged Abstracts, intended to provide the basic information for further personal contacts.

The colloquium was attended by 219 participants from Czechoslovakia, 327 from 33 foreign countries, and 100 accompanying persons. A social program comprising the welcome and farewell parties, excursions and concerts was prepared for them.

From the opening session a message was sent to the Nestor of Czechoslovak mathematicians Professor Otakar Borůvka who reached ninety years of age in the year of the conference. The participants highly appreciated the contribution of O. Borůvka to mathematics, in particular to the theory of global transformations of differential equations,

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and also his part in organizing the preceding EQUADIFF conferences in
Brno. During the conference a group of Prof. Borůvka's closest friends
visited him in Brno to wish him firm health and further successes in
mathematical research.

The present proceedings contain the texts of invited lectures as
they were provided by the speakers. The directory of invited speakers
includes also those whose contributions do not appear in the volume.
The authors were requested to supply camera-ready manuscripts, and no
corrections were made by the editors.

Jaroslav Kurzweil
Editor