Svatopluk Fučík - *21.10.1944 - +18.5.1979

Svatopluk F U Č Í K - * 21.10.1944 - + 18.5.1979

Five years ago died, in the age of 35 years, our colleague
3vatopluk Fučík. Talented, extremely attached to his mathema-
matics, dearly beloved by his friends and students, he created
one of the most important contributions to the Czechoslovak
modern science. He is author and co-author of 42 scientific pa-
pers, 5 books, many lecture notes and other various mathemati-
cal texts. His remarkable feature was the unity of scientific
and pedagogical aspects of his activities. All of those who were
lucky to be at the same department with him, who could discuss,
argue and agree with him every day and were fascinated by the
immense stream of his energy, will remember him as a bright
individuality of an enormous intelligence and erudition.

Graduated from the Charles University, he received his
degree in 1967. Since that time he worked at the Faculty of
Mathematics and Physics - Department of Mathematical Analysis.
In 1977 he became Associate Professor.

His main subject was nonlinear functional analysis. At the
first stage of his research activity he dealt with topological
degree of nonlinear maps and fixed point theorems. Further,
he considered the problem of Fredholm alternative for a non-
linear operator $\lambda T - S$. During the following period he gene-
ralized (together with J. Nečas, J. Souček and V. Souček) the
Ljusternik-Schnirelman Theory. The substantial part of Fučík's

work is devoted to the study of non-linearly perturbed non-invertible linear operators in Banach spaces and to the application of the obtained results to differential equations. In each of these parts of nonlinear functional analysis, Fučík left many outstanding results which affected the further development.

On the 15th of May, 1984, a seminar in honour of S. Fučík was organized by the Faculty of Mathematics and Physics of the Charles University, Mathematical Institute of the Czechoslovak Academy of Sciences and the Union of Czechoslovak Mathematicians and Physicists. His teachers, collaborators and pupils were asked to give lectures dedicated to his memory. Some of these lectures (and also other papers) are now published here.

Let us end up this commemorative introduction by Professor J. Mawhin s words which fully express our feelings: "Svatopluk Fučík, both the man and mathematician, is still very lively in my heart and in my memory."

Editors of Commentationes   Department of
Mathematicae Universitatis Carolinae   Mathematical Analysis