

# Chapter 1

## Preface

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The first conference on Real Functions Theory had been organized by Mathematical Institute of the Slovak Academy of Sciences in Bratislava since 1971.

Since 1972 conferences were organized by other institutions every second year and since 2005 a Polish group of mathematicians joint to organize conferences every second year. So since 2004 International Summer Conferences on Real Functions Theory held every year. The latter conference is XXIX, one in the series that consists of:

- (1) 1971 — Modra - Harmónia
- (2) 1972 — Čingov
- (3) 1974 — L'ubochňa
- (4) 1976 — Modra - Harmónia
- (5) 1978 — Modra - Harmónia
- (6) 1980 — Trnava
- (7) 1982 — Dolné Orešany
- (8) 1984 — Kamenný Mlyn
- (9) 1986 — Richňava
- (10) 1988 — Dubník
- (11) 1990 — Dubník
- (12) 1992 — Dubník
- (13) 1994 — Liptovský Ján
- (14) 1996 — Liptovský Ján

- (15) 1998 — Liptovský Ján
- (16) 2000 — Liptovský Ján
- (17) 2002 — Stará Lesná
- (18) 2004 — Stará Lesná

First 18 conferences were organized by Slovak Academy of Sciences. Since 2005 in odd years the International Summer Conferences on Real Functions Theory are organized by Pomeranian Academy in Słupsk, University of Łódź, Łódź Technical University and University of Computer Sciences and Skills, and in even years the International Summer Conferences on Real Functions Theory are organized by Slovak Academy of Sciences.

- (19) 2005 — Rowy (Poland)
- (20) 2006 — Liptovský Ján (Slovakia)
- (21) 2007 — Niedzica (Poland)
- (22) 2008 — Stará Lesná (Slovakia)
- (23) 2009 — Niedzica (Poland)
- (24) 2010 — Liptovský Ján (Slovakia)
- (25) 2011 — Złoty Potok (Poland)
- (26) 2012 — Stará Lesná (Slovakia)
- (27) 2013 — Niedzica (Poland)
- (28) 2014 — Stará Lesná (Slovakia)
- (29) 2015 — Niedzica (Poland)

Thus in 2015 we celebrate 10th anniversary since Pomeranian Academy in Słupsk, University of Łódź and Łódź University of Technology joined Slovak Academy of Science and started organizing the International Summer Conferences on Real Functions Theory every odd year. As far, six conferences organized by Polish institutions were held, four in Niedzica in Pieniny Mountains, one in Rowy near Baltic Sea and one in Złoty Potok in Central Poland.

International Summer Conferences on Real Functions Theory has a wide group of regular participants. Three of them, Professor Roman Ger, Professor Jacek Jędrzejewski and Professor Zygfryd Kominek, celebrate this year seventieth birthday anniversary.

Professor Roman Ger was born at July 30, 1945. He received his master's degree in 1968 at a branch of Jagiellonian University in Katowice. In 1971 he received Ph. D. degree and habilitation in 1976, both from Silesian University in Katowice. He became a full professor in 1990. Professor Roman Ger started research under the supervising of Professor Marek Kuczma, the founder of Polish school of functional equations. From 1976 till now he works at Silesian University. From 2005 to 2008 he was Deputy Director and from 2008 to 2012



he was Director of the Mathematical Institute. Between 1990 and 1992 he was a Vice Chancellor of Silesian University. Simultaneously, he worked in Academy of Jan Długosz in Częstochowa in years 1981-1987, 1991-2010 and in Silesian University of Technology in Gliwice in 1988-1991. He was a visiting professor at the University of Waterloo, Waterloo, Ontario, Kanada, 1979; University of Central Florida, Orlando, Floryda, USA, 1987-88; Karl-Franzens-Universität, Graz, Austria, 1994; Universitaät Bern, Berno, Szwajcaria, 1995.

In years 1984-2000 he led, founded by Professor Marek Kuczma, the seminar on Functional Equations. In 1981 he founded and leads till now the seminar on Functional Equations and Inequalities.

His scientific output contains more than 110 scientific papers, mainly devoted to functional equations and inequalities. He gave more than 50 lectures among the other Universities in USA, Canada, Germany, Italy, Austria, Switzerland, Spain, Greece, Hungary, Czech Republic, Denmark, Israel, China Republic and Venezuela. He was a supervisor of 15 Ph.D. students and has served as a referee for 26 Ph.D. thesis, 8 habilitation dissertations and 18 applications for professor nomination.

Professor Jacek Jędrzejewski was born at August 6, 1945. He received his master's degree in 1969, Ph. D. degree in 1974 and habilitation degree in 1984, all of them from University of Łódź. He worked at the University of Łódź in years 1969-1984. He was a Senior Lecturer in Rivers State University of Science and Technology, Port Harcourt, Nigeria, 1984-1988. After his return to Poland he worked at Higher Pedagogical School in Bydgoszcz, Pomeranian Academy in Słupsk 1989-2005, University of Computer Sciences and Skills 1999-2011 and Academy of Jan



Długosz in Częstochowa 2005-2015. From 1988 to 1993 he was a Deputy Director and from 1993 to 1995 he was the Director of the Mathematical Institute at Higher Pedagogical School in Bydgoszcz. From 1989 to 1990 he was a Vice Dean and from 1990 to 1993 he was a Vice Chancellor at Higher Pedagogical School in Bydgoszcz. He also was the Director of the Mathematical Institute at Pomeranian Academy in Słupsk 1999-2005.

His scientific output contains more than 40 papers, mainly devoted to function theory and topology. He was the supervisor of 3 Ph.D. students and has served as a referee for 4 Ph.D. thesis.

In 1997 Professor Jacek Jędrzejewski organized the first International Conference on Real Functions Theory in Ustka. Next conferences took place in 2001 in Łeba and in 2003 in Rowy. In 2005 these conferences evolved into International Summer Conferences on Real Functions Theory. Professor Jędrzejewski was the president of all International Summer Conferences on Real Functions Theory organized by Polish Universities.

Professor Zygfryd Kominek was born at November 8, 1945. He received his master's degree in 1968 at a branch of Jagiellonian University in Katowice.



In 1974 he received Ph. D. degree from Silesian University in Katowice and in 1991 he received habilitation degree from Warsaw University of Technology. He became a full professor in 2008. From 1976 till now he works at Silesian University. From 1992 to 1996 and from 2011 till now he was a Deputy Director and from 1996 to 2002 he was the Director of Mathematical Institute. Simultaneously, he worked in Academy of Jan Długosz in Częstochowa 1992-1998, 2004-2006, in Łódź University of Technology branch in Bielsko-Biała 1991-2001,

in The University of Bielsko-Biała 2001-2003 and in the Katowice Institute of Information Technologies 2006-2011.

His scientific output contains more than 70 papers, mainly devoted to conditional functional equations, convex functions and systems of functional equations. He was the supervisor of 5 Ph.D. students and has served as a referee for 16 Ph.D. thesis.

The presented monograph *Modern Real Analysis* is dedicated to the mentioned anniversaries. It contains several chapters, written by frequent participants of International Summer Conferences on Real Functions Theory, where their actual research topics are presented.