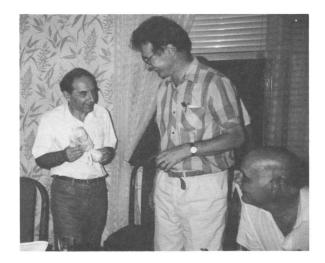
The number of participants at the Fifteenth Summer Symposium in Real Analysis was so large that they could not all be included in one photograph. On this page you will find pictured most of those who attended the meeting in Smolenice, Czechoslovakia.





ANDY AWARD WINNER ALEKSANDER OLEVSKII



Here we see a surprised but obviously pleased Sasha Olevskii as he is given the award by the Chairman of the Organizing Committee, Professor Jaroslav Smítal.



The other members of the Organizing Committee worked very hard serving the participants of the conference. From left to right they are: Jana and Miroslav Chlebík, Bernd Kirchheim and Pavel Kostyrko.

Report on the SUMMER SYMPOSIUM in REAL ANALYSIS XV Smolenice, Czechoslovakia August 12–16, 1991

The Fifteenth Summer Symposium in Real Analysis was held August 12-16, 1991 at the Smolenice Castle, located approximately 45 km north of Bratislava. The hospitality of our hosts, the beautiful surroundings, the large number of participants, and the mathematics discussed (formally and informally) made this meeting a memorable one for all fortunate enough to attend. The Smolenice Castle is presently under the auspices of the Slovak Academy of Sciences and provided a unique and pleasant setting for this special week. The **Exchange** editorial staff wishes to thank the academy and the very accommodating staff at the castle for making this facility available and enjoyable. The conference organizing committee consisted of Jaroslav Smítal, Miroslav Chlebík, Bernd Kirchheim, and Pavel Kostyrko, all of Comenius University. Their efforts before, during, and after the conference are greatly appreciated. A huge word of appreciation must also go to Jana Chlebíková, who was found doing everything from assisting western visitors with the telephone to tirelessly typing abstracts, schedules, etc.

The conference featured invited hour addresses by:

- ANDREW M. BRUCKNER (Santa Barbara)
- MIKLÓS LACZKOVICH (Budapest)
- ALEKSANDER OLEVSKII (Moscow)

Forty-four speakers contributed twenty minute talks, and a lively problem session was held late Tuesday, prefaced by an invited presentation of some open problems by

• PAUL ERDÖS (Budapest).

The participants included:

Marek Balcerzak (Lodz), Jozef Bobok (Prague), Benedetto Bongiorno (Palermo), Ján Borsík (Košice), Andrew M. Bruckner (Santa Barbara), Judith Bruckner (Santa Barbara), Zoltán Buczolich (Budapest), Peter S. Bullen (Vancouver), Miroslav Chlebík (Bratislava), Joanna Czarnowska (Gdańsk), Paul Erdős (Budapest), Michael J. Evans (Raleigh), Janina Ewert (Slupsk), Vladimir V. Fedorenko (*Kiev*), Richard G. Gibson (*Columbus*), François Guénard (Paris), Ján Haluška (Košice), Jacek Hejduk (Lodz), Ralph Henstock (Londonderry), Petr Holický (Prague), Roman Hric (Banská Bystrica), Patricia Hug (Paris), Paul D. Humke (Northfield), Jan Jastrzębski (Gdańsk), Jacek M. Jędrzejewski (*Bydgoszcz*), Roy A. Johnson (*Pullman*), A. Katafiasz (Bydgoszcz), Václav Kelar (Prague), Bernd Kirchheim (Bratislava), Pavel Kostyrko (Bratislava), Milan Kuchta (Bratislava), Anna Kucia (Katowice), Jaroslav Kurzweil (Prague), Grazyna Kwiecińska (Gdańsk), Miklós Laczkovich (Budapest), Lee Larson (Louisville), Jan S. Lipiński (Gdańsk), Jaroslav Lukeš (Prague), Dorothy Maharam Stone (Boston), Jan Mařík (East Lansing), Pieter Maritz (Stellenbosch), Milan Matejdes (Zvolen), Ladislav Mišík (Bratislava), Pat Muldowney (Londonderry), Tomasz Natkaniec (Bydgoszcz), Andrzej Nowak (Katowice), Aleksander Olevskii (Moscow), Sofia Olevskii (Moscow), Richard J. O'Malley (Milwaukee), Washek F. Pfeffer (Davis), Andrzej Rychlewicz (Lodz), Aleksander N. Šarkovskii (Kiev), Štefan Schwabik (Prague), Andrej G. Sivak (Kiev), Valentin Skvortsov (Moscow), Jaroslav Smítal (Bratislava), Ľubomír Snoha (Banská Bystrica), Arthur H. Stone (Boston), Andrzej Szymanski (Slippery Rock), Jaroslav Tišer (Prague), Jaromír Uher (Prague), Peter Vojtáš (Košice), Rudolf Výborný (Queensland), Clifford E. Weil (East Lansing), Luděk Zajíček (Prague), and Piotr Zakrzewski (Berlin).

A number of accompanying spouses and family members also attended and added to the fellowship of the week.

At the traditional Symposium Banquet Jaroslav Smítal announced the organizing committee's selection for the winner of this year's **ANDY AWARD** and that selection was greeted with a rousing round of applause. The winner is

ALEKSANDER OLEVSKII.

PROGRAM of the SMOLENICE SYMPOSIUM

(The page number in the right hand column refers to the page of this issue on which a summary of the presentation is located. An * in this column indicates that a summary was not available from the speaker at the time of printing.)

MONDAY Morning: Chairman: A. M. Bruckner

	M. Laczkovich	p.	15
10.20 - 10.40	Z. Buczolich Bi-Lipschitz mappings and density points	p.	16
11.00 - 11.20	P. Humke Remarks on the density (property) of O'Malley	p.	17
11.30 - 11.50	L. Zajíček A note on σ -porous sets	p.	18
12.00 - 12.20	M. J. Evans Symmetric porosity and symmetric Cantor sets	p.	19

MONDAY Afternoon: Chairman: L. Mišík

15.30 - 15.50 R. Henstock The integral over product spaces, and Wiener's formula	p.	21
16.00 – 16.20 J. Kurzweil Differentiability and integrability in n dimensions with respect to α -regular intervals	p.	23
16.30 - 16.50 R. Výborný Kurzweil-Henstock integration and the strong Lusin condition	p.	25
17.30 - 17.50 P. Muldowney Integration of a functional	p.	27
18.00 - 18.20 W. F. Pfeffer A Voltera type derivative of the Lebesgue integral	p.	29
18.30 – 18.50 B. Bongiorno Remarks on nonabsolutely convergent integrals in the real line	p.	30

TUESDAY Morning: Chairman: J. Kurzweil

09.00 - 10.00 A. Olevskii p. 5 Change of variable in Fourier analysis	32
10.10 - 10.30 V. Skvortsov p. 5 Some inversion results for the generalized Walsh-Fourier transform	33
11.00 – 11.20 C. E. Weil p. Multipliers of classes of derivatives	35
11.30 - 11.50 J. Mařík p. The equation $f^2 + g^2 = h^2$, where f, g, h are derivatives	37
12.00 – 12.20 <i>P. Kostyrko</i> p. Symmetric approximate derivatives are uniformly closed	39

TUESDAY Afternoon: Chairman: P. D. Humke

15.00 - 15.20 T. Natkaniec p. 40 On some problems concerning almost continuity
15.30 - 15.50 A. Szymanski p. 42 Almost continuous functions and almost Baire functions
16.00 - 16.20 J. Ewert p. 44 The topology of semilocal connectedness and s-continuity of maps on product spaces
17.00 - 17.30 P. Erdős see Queries Section On some problems in measure theory and geometry
17.30 Problem session see Queries Section

WEDNESDAY Morning: Chairman: J. Mařík

09.00 - 09.20	<i>M. Matejdes</i>	p.	46
	Continuity and measurability of path derivatives	-	
09.30 - 9.50	J. Hejduk	p.	48
	Non–Baire sets in category bases	-	

10.00 - 10.20	G. Kwiecinska Measurability of multifunctions of two variables	p.	50
10.40 - 11.00	D. Maharam Stone On a combinatorial theorem of Curtis Greene	p.	52
	A. Stone parametrization theorem for generalized Borel sets	p.	53
11.40 - 12.00	P. Maritz On approximation spaces	p.	54

THURSDAY Morning: Chairman: J. Smítal

09.00 - 10.00 A. M. Bruckner p. 5 Three forms of Chaos and their associated attractors	6
10.10 – 10.30 \check{L} . Snoha (with S. F. Kolyada) p. 5 On ω -limit sets of triangular maps	7
11.00 – 11.20 A. N. Šarkovskii Random attractors in deterministic problems	*
11.30 – 11.50 A. G. Sivak p. 5 On structure of σ -limit sets	9
12.00 - 12.20 V. V. Fedorenko On a classification of trajectories of a map of the interval	*

THURSDAY Afternoon: Chairman: M. Laczkovich

15.30 - 15.50	J. Smítal Dynamical systems on the interval	p.	61
16.00 – 16.20 <i>I</i>	R. J. O'Malley Ergodic theory and first-return sequences	p.	63
	M. Kuchtaadowing property for continuous maps with zero topological entropy	p.	64

17.30 - 17.50 B. Kirchheim p. 66 Typical functions in subspaces of \mathcal{B}^1 : thick or thin ?
18.00 – 18.20 <i>P. Vojtáš</i> * On isomorphism of quotients of comparision ordering of divergent series and of $\mathcal{P}(\mathcal{N})/\text{fin}$
18.30 – 18.50 P. Zakrzewski p. 67 Strong Fubini theorems from measure extension axioms
FRIDAY Morning: Chairman: R. J. O'Malley
09.00 - 09.20 R. G. Gibson p. 69 Concerning a characterization of continuity
09.30 - 09.50 J. Jastrzębski * Remarks on points of almost continuity
10.00 – 10.20 A. Rychlewicz * On the algebraic embeddability in the class of functions possessing connected graphs
11.00 – 11.20 M. Balcerzak p. 71 Some remarks on sup-measurability
11.30 - 11.50 J. Borsík p. 73 On limits of quasicontinuous, simply continuous and cliquish functions
12.00 – 12.20 J. M. Jędrzejewski * Some properties of subclasses of Darboux functions
FRIDAY Afternoon: Chairman: C. E. Weil

15.30 - 15.50	A. Nowak (with A. Kucia) p. 75 Measurable fields of metric spaces
16.00 - 16.20	J. Czarnowska p. 77 On the Darboux property of multivalued maps
16.30 - 16.50	A. Katafiasz p. 79 The improvable discontinuous functions

17.30 – 17.50 J. Haluška	p.	81
On Jegorov theorem for nets of measurable functions		
18.00 – 18.20 L. Larson Some topics concerning <i>I</i> -density continuous functions	p.	83
18.30 Closing of the Summer Symposium and Symposium Banquet		