

THE THIRTEENTH SUMMER SYMPOSIUM ON REAL ANALYSIS

June 14 - 17, 1989

MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN

The Thirteenth Summer Symposium on Real Analysis was held on the campus of Michigan State University, June 14 - 17, 1989. This was a return visit to East Lansing for the Symposium; the third summer conference was hosted by MSU in 1980. As was the case in 1980, this year's version was ably organized by Clifford E. Weil. The support of Michigan State University, its College of Natural Science, and the Department of Mathematics is gratefully acknowledged.

The Symposium featured invited hour addresses by:

ZOLTAN BUCZOLICH, Eötvös Loránd University

JAMES FORAN, University of Missouri - Kansas City

PAUL HUMKE, St. Olaf College

LEE LARSON, University of Louisville

TOGO NISHIURA, Wayne State University

DANIEL MAULDIN, University of North Texas

BRIAN THOMSON, Simon Fraser University

Other participants included: H. Atkinson (U. Windsor), R. Brackebusch (Indiana U. SE.), J. Brown (Auburn U.), A. Bruckner (U. Calif. - Santa Barbara), K. Brucks (Mich. St. U.), K. Ciesielski (W. Va. U.), G. Cross (U. Waterloo), M. Evans (N. C. St. U.), H. Fast (Wayne St. U.), I. Fleischer (U. Waterloo), B. Garrett (Tenn. St. U.), R. Gibson (Columbus C.), M. Gutkowski (Lake Superior St. U.), C.-M. Lee (U. Wisc. - Milwaukee), R. Henstock (U. Ulster), J. Marik (Mich. St. U.), J. Masterson (Mich. St. U.), S. Meinershagen (NW Missouri St. U.), R. O'Malley (U. Wisc. - Milwaukee), G. Schlee (U. N. Texas), D. Spear (U. N. Texas), C. Upton (U. Melbourne), T. Traynor (U. Windsor), and L. Yap (Nat'l U. Singapore).

At the banquet on Friday evening Conference Director Weil announced the 1989 recipient of the ANDY. And the winner is

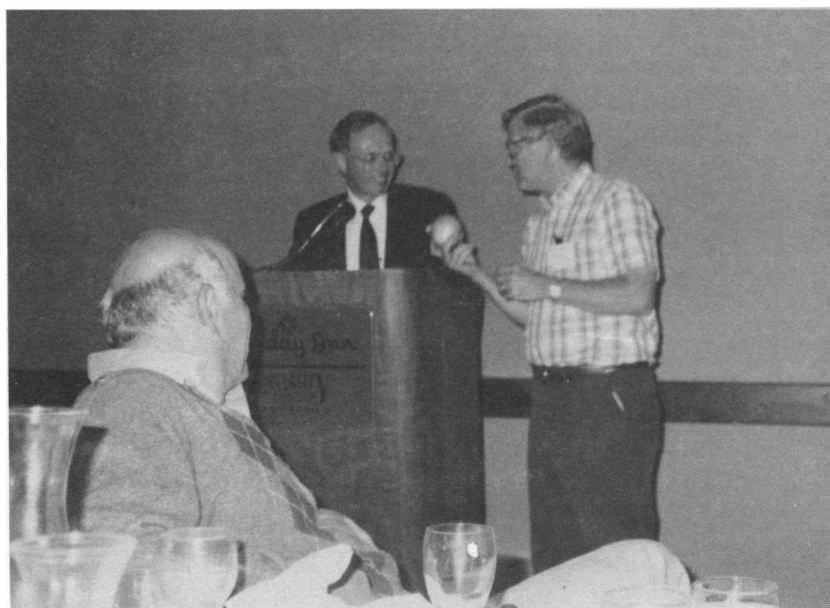
JACK BROWN, Auburn University

Congratulations, Jack! A photo of the presentation is on the following page where a picture of most of the participants can also be found.

The program of the symposium is reprinted on the page following the photograph page. This is followed by summaries of the talks in the order that they appear in the program. It should be noted that Dan Mauldin and Glen Schlee have combined their summaries into a joint report. Also a summary from Professor Garrett was not available at the time this issue was printed.



As an exercise for the reader, (not to be handed in) identify all of the participants of the Thirteenth Summer Symposium in Real Functions who responded to the call to assemble for the mandatory photograph. Hint: The person in the back revealing only his eyes and forehead has initials D. M.



From among all (two) of the pictures of this year's Andy presentation submitted for consideration the judges (your managing editor) selected this one since it includes the presenter (ibid) the winner of the Andy, Professor Jack Brown and the namesake of the award, Professor Andrew Bruckner. The picture was donated (unbeknownst to him) by Professor George Cross and the committee wishes to express its thanks to him.

THIRTEENTH SUMMER SYMPOSIUM IN REAL ANALYSIS

Wednesday 14 June, Chaired by C. Weil

- 9:30-12:00 Registration, Coffee and RefreshmentsA204 Wells Hall
(All Talks will be held in A304, Wells Hall)
- 1:00-1:15 Opening Remarks by Dean Frank Hoppensteadt
- 1:15-2:15 Professor Lee Larson Density Continuous Functions
- 2:25-2:55 Professor K. Ciesielski I-density Continuous Functions
- 3:10-3:35 Professor R. Gibson Concerning Two Properties of Connectivity Functions
- 3:45-4:05 Professor J. Upton Fractional Hadamard Powers of Positive Definite Matrices

Thursday 15 June, Chaired by J. Mařík

- 9:00-10:00 Professor Z. Buczolich Restriction and Intersection Theorems in Real Analysis
- 10:10-10:35 Professor L. Yap On a Certain Converse of Hölders Inequality for Lorentz Spaces
- 10:50-11:50 Professor J. Foran Approximating Hausdorff Measures
- 12:00-1:25 Lunch
- 1:30-2:30 Professor P. Humke Laczkovich's Squaring the Circle Proof
- 2:40-3:00 Professor C. Lee Bolyai-Gerwien Theorem and Hilbert's Third Problem
- 3:20-3:40 Professor T. Traynor Lifting: The Connection between Functional Representations of Vector Lattices

Friday 16 June, Chaired by M. Evans

- 9:00-10:00 Professor B. Thomson Symmetric Derivatives and Integrals
- 10:10-10:40 Professor R. Henstock Limits under the Integral Sign
- 10:50-11:20 Professor J. Brown Measurable Darboux Functions
- 11:30-12:00 Dr. Donald Spear Pitt's Dimensionless Cantor Set
- 12:00-1:25 Lunch
- 1:30-2:30 Professor D. Mauldin Borel Measurable Selections
- 2:40-3:00 Professor S. Meinershagen A Lower Bound for the Packing Measure which is a Multiple of the Hausdorff Measure
- 3:15-3:35 Mr. G. Schlee Co-analytic Operators and a Theorem of Saint Raymond
- 3:45-4:15 Professor A. Bruckner The ω -limit Sets for Self Maps of an Interval
- 6:00-7:00 Cash bar in the Terrace area of the Holiday Inn, 300 MAC Ave
- 7:00-9:00 Banquet in Salon D of the University Ballroom in the Holiday Inn

Saturday 17 June, Chaired by R. O'Malley

- 9:30-10:30 Professor T. Nishiura Radial Cluster Sets and Interpolation
- 10:40-11:10 Professor B. Garrett On Connected Functions
- 11:20-11:50 Professor I. Fleischer Change of Variable in the Semigroup Valued Refinement Integral