

SIXTH SUMMER SYMPOSIUM ON REAL ANALYSIS

The Sixth Summer Symposium on Real Analysis was hosted by the University of Waterloo. The conference began with registration at noon on June 22 and ended in the early afternoon of June 25. The Editorial staff of the Real Analysis Exchange wishes to express its gratitude to the University of Waterloo and the Natural Sciences and Engineering Research Council of Canada for their support of this symposium and in particular to Professor George Cross for his superior job of organizing and directing the event. Both the mathematical portion of the conference and the social events associated therewith were uniformly of a very high quality and the symposium provided an exceptional forum for the reporting of mathematics in progress and for the initiation of new ideas. The mathematical program featured hour addresses by each of Professor M. Laczkovich of Eotvos Lorand University, Budapest, Professor R. Henstock, The New University of Ulster, Londonderry, Professor A.M. Bruckner, The University of California, Santa Barbara, and Professor J.E. Brown, Auburn University, Auburn. In addition to these lectures, there were sixteen thirty minute presentations by other participants. The canonical Editorial Board meeting rounded out the proceedings.

Participants included: J. Aczel, S. Agronsky, J. Baker, D. Bindschadler, J.B. Brown, A.M. Bruckner, J. Ceder, G.E. Cross, M.J. Evans, H. Fast, R.J. Fleissner, J. Foran, K.M. Garg, D. Hancock, H.P. Heinig, R. Henstock, P.D. Humke, M. Jodeit Jr., M. Laczkovich, L. Larson, C.-M. Lee, J. Marik, M. Morayne, T. Nishiura, R.J. O'Malley, K. Ostaszewski, G. Petruska, M. Schramm, I. Solomon, B.S. Thomson, T. Vessey, D. Waterman, and C. Weil.

SIXTH SUMMER SYMPOSIUM ON REAL ANALYSIS

Department of Mathematics - University of Waterloo

June 22 to June 25, 1983

Wednesday, June 22

Noon Registration

7:30 Wine and Cheese Party

Thursday, June 23

9:00 **ON THE FIRST CLASS OF RAIRE**
M. Laczkovich

10:00 Coffee

10:30 **ON GLOBS**
J. Ceder

- 11:00 **THE MULTIPLE INTERSECTION PROPERTY FOR PATH DERIVATIVES**
R.J. O'Malley
- 11:30 **FOURIER INTEGRAL INEQUALITIES AND APPLICATIONS**
H. Heinig
- 12:00 Lunch
- 2:00 **A GENERAL METHOD FOR SHOWING DERIVATIVES ARE IN BAIRE CLASS 1**
L. Larson
- 2:30 **THE SETS OF CONSTANCY OF FUNCTIONS WITH A VANISHING DERIVATIVE**
G. Petruska
- 3:00 **DIFFERENTIABILITY OF MULTIDIMENSIONAL PEANO TYPE FUNCTIONS**
M. Morayne
- 3:30 **QUALITATIVE ASPECTS OF DIFFERENTIATION**
M.J. Evans

Friday, June 24

- 9:00 **SOME NEW SIMPLE PROOFS FOR OLD DIFFICULT PROBLEMS**
A.M. Bruckner
- 10:00 Coffee
- 10:30 **A TOPOLOGY FOR THE SPACE OF DENJOY INTEGRABLE FUNCTIONS**
K. Ostaszewski
- 11:00 **ON THE CLASSIFICATION OF SET VALUED FUNCTIONS**
K.M. Garg
- 11:30 **A PATHOLOGICAL APPROXIMATELY SMOOTH FUNCTION**
P.D. Humke and M.J. Evans
- 12:00 Lunch
- 1:45 **THE LEBESGUE SYNDROME**
R. Henstock
- 2:45 Coffee
- 3:00 **ASSOCIATED SETS AND CONTINUITY ROADS***
S. Agronski
- 3:30 **ON LOCALLY BOUNDED MAPS OF SEQUENCE SPACES**
J. Aczel

*This complete paper can be found in the Research Article Section of this Exchange.

4:00 DECOMPOSITION OF LIPSCHITZ FUNCTIONS

M. Jodeit

7:00 Banquet

Saturday, June 25

9:00 VARIATIONS ON BLUMBERG'S THEOREM

J.B. Brown

10:00 Coffee

10:30 THE CHAIN RULE AND CHANGE OF VARIABLES FOR THE DENJOY INTEGRAL

J. Foran

11:00 MULTIPLIERS OF VARIOUS CLASSES OF DERIVATIVES

J. Marik

11:30 NEW RESULTS ON FUNCTION CLASSES INVARIANT UNDER CHANGE OF VARIABLE

D. Waterman

12:00 Lunch

2:00 Real Analysis Exchange Board Meeting

A profitable time was had by all!