THIRD SUMMER SYMPOSIUM ON REAL ANALYSIS

The Third Summer Symposium on Real Analysis was held on the Michigan State University campus June 25-28, 1980. The conference was hosted by Michigan State's Department of Mathematics and the theme was THE REAL VARIABLE ASPECTS OF OTHER BRANCHES OF MATHEMATICS. Professors Frederick W. Gehring, University of Michigan, Richard F. Gundy, Rutgers University, and Antoni Zygmund, University of Chicago, each delivered two invited one hour lectures on that theme. There were also 30 minute sessions devoted to contributed papers. The symposium program has been reprinted on the following pages.

Participants included Glen Anderson, J. Marshall Ash, Charles Belna, Andrew Bruckner, Peter Bullen, Peter Colwell, George Cross, Geraldo De Souza, Steven Dragosh, Roy Erickson, Michael Evans, Henry Fast, Richard Fleissner, Frederick Gehring, Casper Goffman, Francois Guenard, Richard Gundy, Paul Humke, Roger Jones, John Kinney, Peter Lappan, Lee Larson, Ka-Sing Lau, Cheng-Ming Lee, Dan Luecking, V. Mandrekar, Jan Marik, John Masterson, Jan Mycielski, Togo Nishiura, Richard O'Malley, Richard O'Neil, Wellington Ow, George Piranian, Alexander Ramm, Michael Rice, John Ryff, Yoram Sagher, Habib Salehi, Jukka Sarvar, William Sledd, Donald Solomon, Brian Thomson, Richard Timoney, Matti Vuorinen, Daniel Waterman, Clifford Weil, Joel Zinn, Antoni Zygmund.

THIRD SUMMER SYMPOSIUM ON REAL ANALYSIS

DEPARTMENT OF MATHEMATICS - MICHIGAN STATE UNIVERSITY

JUNE 25 TO JUNE 28, 1980

WEDNESDAY, June 25

1:00 - 2:00   REGISTRATION and COFFEE

2:00 - 2:15   *WELCOMING REMARKS*
      PROFESSOR HARRY EICK

2:30 - 3:30   *THE REAL VARIABLE ASPECTS OF COMPLEX VARIABLE*
      PROFESSOR FREDERICK W. GEHRING
      University of Michigan

4:00 - 4:30   *A MEAN VALUE THEOREM IN HIGHER DIMENSIONS*
      PROFESSOR RICHARD O'NEIL
      State University of New York, Albany

THURSDAY, June 26

9:00 - 9:30   COFFEE and DONUTS

9:30 - 10:30   PROFESSOR GEHRING

11:00 - 11:30   *OPTIMAL NUMERICAL DIFFERENTIATION USING*
THREE FUNCTION EVALUATIONS
      PROFESSOR J. MARSHALL ASH & PROFESSOR ROGER L. JONES
      DePaul University

   Lunch

1:30 - 2:30   *THE REAL VARIABLE ASPECTS OF PROBABILITY*
      PROFESSOR RICHARD F. GUNDY
      Rutgers University

3:00 - 3:30   *ON THE RATE OF CONVERGENCE OF FOURIER SERIES*
OF FUNCTIONS IN ΔBV
      PROFESSOR DANIEL WATERMAN
      Syracuse University

FRIDAY, June 27

9:00 - 9:30   COFFEE and DONUTS

9:30 - 10:30   PROFESSOR GUNDY

11:00 - 11:30   *FINITISTIC REAL ANALYSIS*
      PROFESSOR JAN MYCIELSKI
      University of Colorado

Lunch

1:30 - 2:30   *THE REAL VARIABLE ASPECTS OF HARMONIC ANALYSIS*
                 PROFESSOR ANTONI ZYGMUND
                 University of Chicago

3:00 - 3:30   *REAL INTERPOLATION WITH WEIGHTS*
                 PROFESSOR YORAM SAGHER
                 University of Illinois, Chicago

4:00 - 4:30   *MATHEMATICS AND THE NATIONAL SCIENCE FOUNDATION*
                 JOHN RYFF, National Science Foundation

6:30 - 10:00   BANQUET - Centennial Room, Kellogg Center

SATURDAY, June 28

9:00 - 9:30   COFFEE and DONUTS

9:30 - 10:30   PROFESSOR ZYGMUND

11:00 - 11:30 *A GENERALIZATION OF S. BERNSTEIN'S INEQUALITY
AND ITS APPLICATIONS IN APPROXIMATION THEORY*
                 PROFESSOR ALEXANDER G. RAMM
                 University of Michigan