

THE NINTH SUMMER REAL ANALYSIS SYMPOSIUM

June 12-15, 1985

The University of Louisville, Louisville, Kentucky

The conference will include thirty-minute contributed papers as well as several invited one-hour presentations. Participants interested in presenting papers are encouraged to indicate this on the registration form printed below.

Housing: There will be a very limited amount of dormitory space available. In addition, several motels within walking distance of the conference site are offering reduced conference rates. Numerous hotels and motels of all prices are located within four miles of the conference site.

Transportation: Louisville can be reached by air from most major American cities. Transportation between the conference site and the airport will be provided for conference participants.

Registration Fee: A registration fee of \$20 will pay for meals at a University of Louisville dining facility and the cost of the closing banquet.

Name _____	Phone _____
Address _____	
Mode of transportation _____	
Will you present a paper? <input type="checkbox"/> yes <input type="checkbox"/> no	Tentative title _____

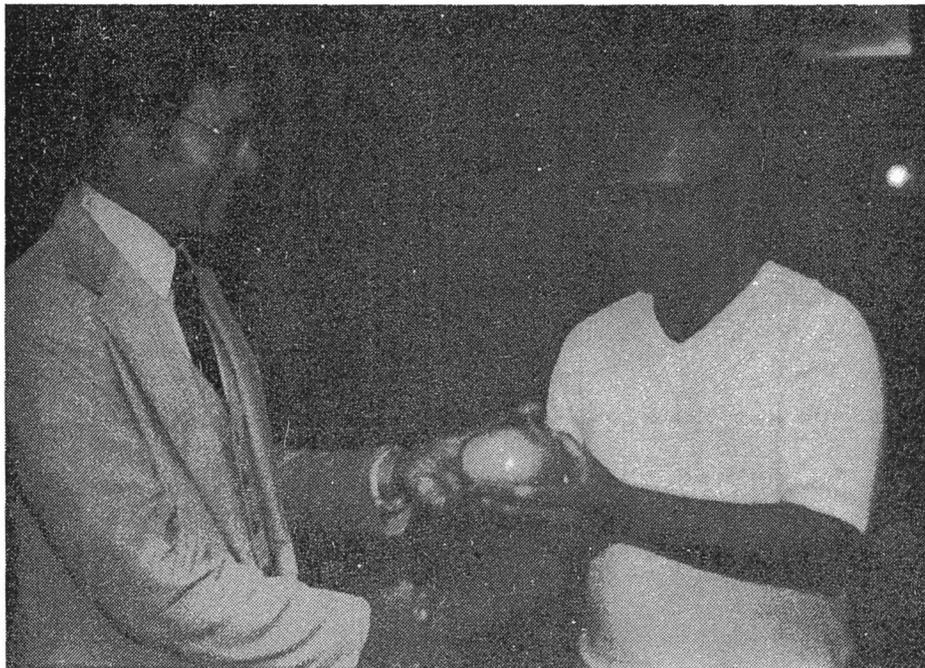
For registration or more information, contact

Lee Larson, Department of Mathematics, University of Louisville, Louisville, KY 40292.

(502)588-6826



Pictured above are most of the participants of this summer's conference. Identification will be left to the reader. The photographer's amateur status is again apparent in the partial cropping of the conference's only female participant. The photograph below is of one of the conference's hosts, Paul Humke as he presents this session's Andy to Richard O'Malley. It is curious that the recipient presented the first ever Andy to the presenter in Milwaukee in 1979. There is no truth to the rumor that due to this ironic turn of events the award will become cyclic.



THE EIGHTH SYMPOSIUM ON REAL ANALYSIS

The Eighth Symposium on Real Analysis was held on the campus of St. Olaf College July 24-28. This symposium was sponsored jointly by the National Science Foundation, St. Olaf College, and the Real Analysis Exchange, and featured hour addresses by Professor P. Mattila (Helsinki), Professor Z. Grande (Bydgoszcz), Professor R.O. Davies (Leicester), Professor R. O'Malley, Professor T. Nishura (Detroit), and Professor S.J. Taylor (Charlottesville). In addition, there were twelve thirty minute lectures. As is traditional, the highlight of the conference was the awarding of the coveted "Andy" which was done at the Banquet; this summer's recipient was, of course, Professor Richard O'Malley of the University of Wisconsin-Milwaukee. The Organizing Committee of the Real Analysis Exchange would like to thank the sponsoring organizations for their support in making this symposium the success that it was. The symposium program is reprinted below. The proceedings of the Eighth Symposium on Real Analysis follow the reprinted program. There are three papers which do not appear in the proceedings section. These include papers by Z. Grande and K. Ostaszewski and these papers can be found in the Research Article section and Inroads section respectively of this Exchange. The third paper is that of G. Petruska and it will appear in full form in the next issue of the Exchange.

Participants included: S. Agronsky, J. Brown, G. Cross, S. Chandarana, R. Davies, G. Soares DeSouza, M. Evans, H. Fast, J. Foran, D. Fremlin, K. Garg, Z. Grande, P. Humke, P. Isaza, M. Jodeit, R. Johnson, M. Laczkovich, J. Masterson, P. Mattila, J. Marik, J. Neiburg, T. Nishura, R. O'Malley, K. Ostaszewski, T. Pearson, G. Petruska, K. Prikry, M. Schramm, R.M. Shortt, S.J. Taylor, T. Vessey, J. Walsh, and C. Weil.

EIGHTH SUMMER SYMPOSIUM ON REAL ANALYSIS

Department of Mathematics - St. Olaf College

July 24 to July 28, 1984

Tuesday, July 24

5:00-8:00 Registration

8:00 Wine and Cheese

Wednesday, July 25

8:30 Registration

- 9:00 Coffee, tea, rolls
- 10:00 Symposium Introduction
- 10:30 **GEOMETRIC PROPERTIES OF FRACTALS**
P. Mattila - Helsinki
- 1:00 **PEANO, COMPOSITE, AND SELECTIVE DIFFERENTIATION**
R. O'Malley - Milwaukee
- 2:00 **α -VARIATION AND TRANSFORMATIONS INTO C^{α} FUNCTIONS**
M. Laczkovich - Budapest
- 2:35 **INTERSECTIONS OF CONTINUOUS FUNCTIONS WITH
FAMILIES OF SMOOTH FUNCTIONS**
S. Agronsky - San Luis Obispo
- 3:10 **BLACKWELL SPACES**
R. M. Shortt - Houghton
- 3:45 **APPROXIMATE SMOOTHNESS OF CONTINUOUS FUNCTIONS**
M. J. Evans - Raleigh

Thursday, July 26

- 9:30 **SOME PROBLEMS IN DIFFERENTIATION THEORY**
Z. Grande - Bydgoszcz
- 10:30 Coffee, tea, rolls
- 11:00 **NON-AVERAGING SETS, DIMENSION AND POROSITY**
J. Foran - Kansas City
- 11:35 **ON THE BOUNDARY VALUE OF BESOV-BERGMAN SPACES**
G. Soares De Souza - Auburn
- 1:30 **ASPECTS OF LINEAR MEASURE**
R. O. Davies - Leicester
- 2:30 **UNCOUNTABLE ORDER SETS FOR RADIAL LIMIT FUNCTIONS**
T. Nishura - Detroit
- 3:45 **DERIVATIVES AND VARIATIONS OF CONTRAVARIANT FUNCTIONS**
K. M. Garg - Edmonton

Friday, July 27

- 9:30 **THE PACKING MEASURE OF RECTIFIABLE SUBSETS**
S. J. Taylor - Charlottesville

- 10:30 Coffee, tea, rolls
- 11:00 **MEASURES FOR WHICH EVERY POROUS SET IS NULL**
P. D. Humke - Northfield
- 11:35 **A SPACE OF REGULATED FUNCTIONS**
P. Isaza - Syracuse
- 7:00 Banquet

Saturday, July 28

- 9:30 **SOME RESULTS ON WHITNEY SETS**
G. Petruska - Budapest
- 10:30 Coffee, tea, rolls
- 11:00 **SINGULAR SETS AND BAIRE ORDER**
J. Brown - Auburn
- 11:35 **GENERALIZED ABSOLUTE CONTINUITY AND VARIATIONAL
EQUIVALENCE**
K. Ostaszewski - Seattle

Not all of the addresses given have reports in the following proceedings. Z. Grande's address, "Some Problems in Differentiation Theory" has been accepted for publication in the Inroads Section of the Exchange , but will not appear in this issue. The address, "Some Results on Whitney Sets" by G. Petruska will be submitted to the Exchange for future publication. K. Ostaszewski's address, "Generalized Absolute Continuity and Variational Equivalence" appears in the Inroads Section of this issue of the Exchange .