

Auburn University

Auburn University, Alabama 36849-5310

College of Sciences and Mathematics

Division of Mathematics
Foundations, Analysis and Topology
218 Parker Hall

Telephone (205) 826-4290

FIFTH ANNUAL AUBURN MINICONFERENCE ON

REAL ANALYSIS

Friday and Saturday, April 15-16, 1988

Sponsored by NSF

Friday Morning 9:00-9:55 Coffee, Doughnuts, Registration,
Information (Parker Hall 244)

FRIDAY MORNING SESSION (properties of real functions):
PARKER HALL 217

10:05-10:30 Jerry Gibson, Columbus College (Ga.), "Concerning
extendable connectivity functions".

10:35-11:00, Harvey Rosen, U. of Alabama, "Connected functions and
locally peripherally connected spaces".

11:05-11:30, Bert Garrett, Tennessee State Univ., "Connected
selectors".

11:35-12:00, M Gutowski, Lake Superior State Univ., "On the
infinite derivative of the jump-function".

Lunch (Dutch Treat).

FRIDAY AFTERNOON SESSION (properties of real functions):
PARKER HALL 217

1:35-2:00, Cheng-Ming Lee, Univ. of Wisconsin - Milwaukee, "A
new characterization of turbulent and chaotic functions I".

2:05-2:30, Paul Humke, St. Olaf College (MN), visiting Univ.
Wisconsin - Milwaukee, "A new characterization of turbulent
and chaotic functions II".

2:35-3:00, Peter Massopust, La Grange College (Ga.), "On some
properties of functions whose graphs are fractal sets".

3:05-3:30, Chris Frieling, Calif. State Univ. - San Bernardino,
"The monotonicity theorem for the approximate symmetric
derivative".

3:30-4:05, Refreshment Break (Parker Hall 244)

4:10-5:00, Mike Evans, N. Carolina State Univ., visiting Univ.
Wisconsin - Milwaukee,

"Approximately symmetric behavior of real functions".

6:00-9:00 Cookout at Jack Brown's house (food and beer provided).

Saturday Morning 8:30-9:30 Coffee and Doughnuts (Parker Hall 244)

SATURDAY MORNING SESSION (Measure theory and real analysis):

PARKER HALL 217

9:35-10:00, Jack Brown, Auburn Univ., "Ramsey null sets, sets of
strong measure zero, concentrated sets, and other small sets".

10:05-10:30, Gene Johnson, Columbus College (Ga.), "The sigma-ring
generated by the Jordan measurable sets".

10:35-11:00, Stewart Baldwin, Auburn Univ., "Strengthened version
of Blumberg's Theorem".

11:10-12:00, Jerry Uhl, Univ. of Illinois,

"Differentiation, slices, and martingales".

Lunch (Dutch Treat).

SATURDAY AFTERNOON SESSION (Real, harmonic, and functional
analysis):

PARKER HALL 217

1:35-2:00, Rudolf Schmidt, Emory Univ., "Fixed point theorem in
Frechet spaces and applications".

2:05-2:30, Peter Bullen, Univ. of British Columbia, "Some
applications of a theorem of Marcinkiewicz".

2:35-3:00, Geraldo De Souza, Auburn Univ., "Weighted Lipschitz
spaces".

3:05-3:30, Michel Lapidus, Univ. of Georgia, "Noncommutative
convolution on Wiener space and Feynman's operational
calculus".

3:35-4:00, Gary Sampson, Auburn Univ., "Weighted norm
inequalities".

4:20, Transportation leaves to deliver participants who have
Sunday flights to LaQuinta Inn in Atlanta. We will stop on the
way to have (dutch treat) dinner at mall outside Atlanta where
there is a large "food court" and a Morrison' Cafeteria. LaQuinta
provides free transportation to the airport.