

**Fourth Biennial Mercer University Undergraduate
Research in Mathematics Conference
February 12, 2011**

- 8:30 AM - 9:00 AM **Registration and Continental Breakfast**
(Science & Engineering Building Lobby)
- 9:00 AM - 9:10AM **Introduction & Welcome** (SEB 110)
Prof. J. Beier, Department of Mathematics, Mercer University
Dean Lake Lambert, College of Liberal Arts, Mercer University
- 9:10 AM - 10:10 AM **Presentations by Students**
- 9:10 AM **“Opportunities for Women in Mathematics:
The Importance of Student Participation”**
Gloria Ananing, Mercer University
Melanie King, Mercer University
Mercedes Mixon, Mercer University
Cecilia Villagomez, Mercer University
- 9:30 AM **“A Set of Points Equidistant From a Line
in the Beltrami-Klein Disk”**
Adam Lewis, Mercer University
- 9:50 AM **“Hausdorff Lines in the Second Symmetric Product”**
Tyler Steele, Georgia Southwestern State University
- 10:10 AM - 10:20 AM **Break with Refreshments**
- 10:20 AM - 11:30 AM **Student Mathematics Competition**
- 11:30 AM - 11:40 AM **Break with Refreshments**
- 11:40 AM - 12:20 PM **Presentations by Students**
- 11:40 AM **“Studying Topologies on Directed Graphs Using
Algebraic Graph Theory”**
Aaron Ostrander, Berry College
- 12:00 AM **“Use-It-or-Lose-It Trees and Graph Dynamics”**
Chris Kirkland, Mercer University

- 12:20 PM - 12:30 PM **Transition to President's Dining Room (University Center)**
- 12:30 PM - 1:50 PM **Georgia MAA State Lunch & Invited Address**
"Opt Art: An Introduction"
Prof. Robert Bosch
Oberlin College
- 1:50 PM - 2:00 PM **Transition to SEB 110**
- 2:00 PM - 3:00 PM **Presentations by Students**
- 2:00 PM **"Model of Fast Inactivation for Kv4.3"**
Bambo Adedire, Emory University
- 2:20 PM **"A Class of Commuting Integer Matrices Modulo a Prime"**
Chan Jin, Agnes Scott College
- 2:40 PM **"On the Period of a Linear Recursive Sequence Modulo a Prime"**
Christine Franzel, Agnes Scott College
Hilary Tobiasz, Agnes Scott College
Rose Psalmond, Agnes Scott College
- 3:00 PM - 3:10 PM **Break with Refreshments**
- 3:10 PM - 4:10 PM **Invited Address**
"Opt Art: Special Cases and New Directions"
Prof. Robert Bosch
Oberlin College
- 4:10 PM - 4:20 PM **Announcement of Competition Winners, Evaluations and Formal Farewell**
- 4:20 PM - 4:45 PM **Available Time to Socialize Prof. Bosch**