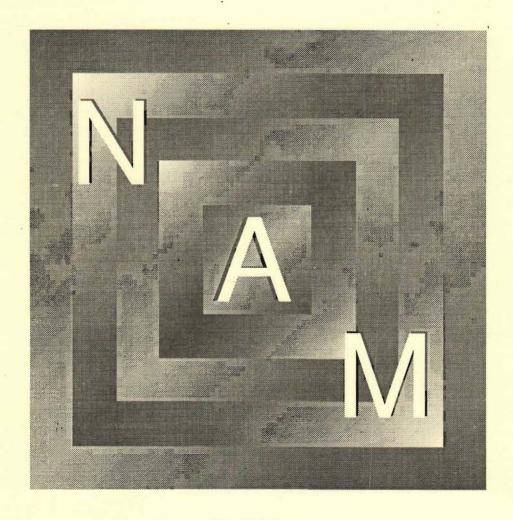
Undergraduate MATHFest XI

A Conference for Undergraduates in Mathematics
Sponsored by The National Association of Mathematicians, Inc. (NAM)



Hosted by

The Department of Mathematics
Florida A and M University, Tallahassee, FL
October 4-6, 2001

THE NATIONAL ASSOCIATION OF MATHEMATICIANS (NAM) AND THE DEPARTMENT OF MATHEMATICS FLORIDA A&M UNIVERSITY

WELCOME ALL ATTENDEES TO UNDERGRADUATE MATHFest XI

A SPECIAL WELCOME TO THE UNDERGRADUATE STUDENTS

October 4, 2001

Dear Undergraduate Students:

We welcome you to Undergraduate MATHFest XI, sponsored by The National Association of Mathematicians (NAM), locally hosted by the Department of Mathematics of Florida A&M University. This conference was designed to introduce undergraduate mathematics majors (mostly seniors) to a unique community of mathematical science professionals: minority American mathematics who have established exemplary careers, minority American graduate students who are currently doing graduate study in mathematics and representatives from doctoral granting institutions who are ready to assist, nurture, guide and support undergraduate American minority mathematics developing new areas of mathematics, finding new applications of existing mathematics, and addressing the pressing issues of mathematics education, it is our hope that this conference will further motivate you to follow in the paths being blazed by those you meet here. Your presence here attests to your interest and ability to do so.

We expect you to enter graduate school in the mathematical sciences in the next year or two. Since we realize the importance of networking with peers as well as mentors, this conference is designed to allow time for you to become acquainted with the other conference participants and to exchange information. We only ask that you take advantage of all opportunities provided by the conference to further your career goals.

We congratulate you on your accomplishments and encourage you to continue to maintain high academic standards and to continue to be achievers in mathematical sciences.

Best wishes,

The Board of Directors of NAM
John W. Alexander, Ph.D., President – NAM
Leon Woodson, Ph.D., Exec. Secretary – NAM
Shirley Thompson, Ph.D., Regional Coordinator
Johnny L. Houston, Ph.D., Secretary Emeritus – NAM

The National Association of Mathematicians, Inc. 1969 NAM 2001

Over a Quarter Century of Service in the Mathematical Sciences Community

The National Association of Mathematicians, Inc. (NAM) was founded in 1969 as a non-profit professional organization in the Mathematical Science's. The main objectives of NAM are: to promote excellence in the mathematical sciences and to promote the mathematical development of under-represented American-Minorities. To achieve these objectives, NAM conducts, supports, and/or sponsors several activities on a regular basis, Excellence, an annual Undergraduate MATHFest Conference and publishes a quarter newsletter and an annual proceeding.

Undergraduate MATHFest XI

Thursday, October 4, 2001
Perry Paige Auditorium and Classrooms
Florida A and M University, Tallahassee, FL

11:00 - 12:30	Registration
12:00 - 2:00	Lunch
2:00 - 3:00	Opening Session "Purpose and Goals of Undergraduate MATHFest XI
	Dr. Leon Woodson, Exec. Sec., NAM National Coordinator – Undergraduate MATHFest XI
	Greetings: National Association of Mathematics and Florida A and M University
	Conference Orientation:
3:00 - 3:30	Presentation I: "The Value of the Ph. D. in the Mathematical Sciences," Roselyn Williams, Florida A and M University
3:30 - 3:45	Break
3:45 - 4:30	Presentation II: "Competition, Persistence, Extinction in a Climax Population Model," Shurron Farmer, Morgan State University
4:35 - 5:30	Spotlight on Mathematics
5:30 - 5:45	Break
5:45 - 7:00	Dinner (Grand Ballroom)
7:00, 7:30, and 8:00	Vans Leave for Hotel
8:00 - 9:00	Informal Discussions
9:00	Free Evening

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Undergraduate MATHFest XI

Friday, October 5, 2001
Perry Paige Auditorium and Classrooms
Florida A and M University, Tallahassee, FL

7:30 - 8:30	Breakfast at Hotel
8:20, 8:30	
and 8:40	Vana Lagra Hatal for University
and 8:40	Vans Leave Hotel for University
9:00 - 9:30	Presentation III Dr. Osiefield Anderson, Florida A and M University
9:35 - 10:15	Presentation IV: "Clustering Algorithms and Graph
7.55 10.15	Coloring," Dr. Rhonda Sharpe, University of NC at
	Chapel Hill
10:15 – 10:30	Break
10:30 - 11:20	Panel I Research and Professional Careers in
10.50	Mathematics Sciences
11:20 - 12:10	Daniel II (II) and to Change fally Northinto Can Junto Salvado Salvado
11:20 - 12:10	Panel II "How to Successfully Negotiate Graduate School,"
	Graduate Faculty
12:10 - 1:30	Lunch (Deli)
1:30 - 4:00	Undergraduate Student Presentations
4:00 - 4:20	Break
4.00 = 4.20	Divak
4:20 - 5:20	Invited Address - J. Ernest Wilkins Jr., Lecture
	"Mathematics in Tomography," Dr. Bernard Mair,
	University of Florida
5:20 - 5:45	Conference Group Picture
0.20	comercial strong rectangle
5:45 - 6:00	Vans Leave for Hotel
7:00 - 9:00	Banquet at Hotel (Presentation of certificates and school
	group photographs)
0.00	
9:00	Free Evening

Undergraduate MATHFest XI

Saturday, October 6, 2001
Perry Paige Auditorium and Classrooms
Florida A and M University, Tallahassee, FL

7:30 - 8:30	Breakfast at Hotel
8:15, 8:30 and 8:45	Vans Leave Hotel for University
9:00 – 9:45	Presentation V: "Analyzing Time Series Using The Hilbert- Huang Transform Method," Shea Burns, North Carolina A&T State University
9:50 - 10:35	Panel III "How to Successfully Negotiate Graduate Study in the Mathematical Sciences," Graduate Students' Views
10:35 - 10:45	Break
10:45 - 11:30	Presentation VI: "Spectral Methods for the Navier-Stokes Equations," Nathaniel Whitaker, University of Massachusetts, Amherst
11:30 - 12:30	Preparing for Graduate School Matriculation Graduate Student Closed Panel Concurrent Faculty Session – Moderator, Dr. Clement Ludderodt, Howard University
12:30 – 12:45	Wrap-Up
12:45 - 2:00	Lunch

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Conference Speakers

Dr. Osiefield Anderson is a professor and former chair of the Department of Mathematics at Florida A and M University. He served as chairperson for the Department for eighteen (18) years. He received his B.A. degree from Ft. Valley State University, the M.S. degree from Clark Atlanta University, and the Ph.D. from Ohio State University. Dr. Anderson's philosophy is: "It doesn't matter to the world how long one lives, but how well one lives. 'For man, wealth only can be measured by the lives that he touches'."

Dr. Shea Burns received her B.S. degree in Mathematics from North Carolina A&T State University and the M.S. and Ph.D. degrees in Mathematics from Howard University. Her area of specialization is in topological semi-groups. She is currently an Assistant Professor at North Carolina A&T State University.

Dr. Shurron Farmer received his B.S. degree in Mathematics from Florida A and M University and his M.S. and Ph.D. degrees from Howard University. He has conducted research at the National Security Agency, the Quality Education for Minorities Network/National Science Foundation, Baylor College of Medicine, and Sandia National Laboratories. He is currently an Assistant Professor of Mathematics at Morgan State University.

Dr. Bernard Mair received the B.S. and M.S. in Mathematics from the University of the West Indies in Kingston, Jamaica. He received the Ph.D. in Mathematics from McGill University in Montreal, Canada, in 1984, for work on the boundary behavior of solutions of parabolic partial differential equations. He is currently a professor of Mathematics and co-director for the Center for Applied Mathematics at the University of Florida and has held positions at the University of the West Indies, Pennsylvania State University, Texas Tech University and Dartmouth College. As a result of an NSF Interdisciplinary Grant in the Mathematical Sciences award, he spent 1999-2000 as a Visiting Professor in Radiology at Emory University School of Medicine, to gain experience in clinical aspects of medical imaging.

Dr. Rhonda Sharp received her B.S. degree in Mathematics from Wesleyan University, a M.S. degree in Applied Mathematics from Clark Atlanta University, a M.S. degree in Operations Research from Stanford University, and a Ph.D. degree in Economics/Mathematics from Claremont Graduate University. She is currently a Carolina Minority Postdoctoral Scholar in the Department of Economics at the University of North Carolina at Chapel. Dr. Sharp's research is focused on the economics of education and the economics of sports. Her research focuses on the access to and the financing of higher education, the application of financial engineering to problems facing higher education and the economics of sports.

Dr. Roselyn Williams received her B.S. degree in Mathematics from Spelman College, the M.S. degree in Mathematics from the University of Florida, and the Ph.D. degree from Florida State University. From 1988 to present, she has held the position of Associate Professor of Mathematics. In 1997 she was appointed interm-chairperson of the Department of Mathematics. In 1999, she was appointed Chairperson. Her research interest is in Hopf algebras and the application of mathematics industry.

Dr. Nathaniel Whittaker received his B.A. degree in Economics from Hampton Institute, the M.S. degree in Mathematics from the University of Cincinnati, and the Ph.D. in Applied Mathematics from the University of California, Berkeley. He is an Associate Professor of Mathematics at the University of Massachusetts, Amherst. His research interest is in developing numerical methods for solving differential equations, especially those that result from fluid mechanics.

Idergraduate MATHFes

Purposes and Goals Of Undergraduate MATHFest

Early nurturing through research and the exposure to role models and practitioners of research have led many persons, especially minorities, to pursue graduate study (leading to earning the doctorate degree) and research careers in the mathematical sciences. In view of the severe under-representation of American minorities in the sciences; especially in mathematics, the National Association of Mathematicians, Inc. (NAM) believes it to be very important to hold an annual mathematics undergraduate research conference with the expressed purpose of attracting more American minorities to pursue graduate study leading to a doctoral degree and a research career in the mathematical sciences. The purposes of Undergraduate MATHFest are to engage in concrete efforts on an annual basis to directly influence the number of under-represented American minorities who pursue graduate study, leading to earning the doctoral degree in mathematics; to get doctoral granting graduate institutions to make a commitment to provide a supportive environment to assist these students in succeeding; and to permit these perspective graduate students to interact with current under-represented American minorities studying mathematics at the graduate level. Undergraduate MATHFest is about building productive bridges, partnership and avenues that lead to success in addressing the pipeline issues of under-represented American minorities in the mathematical sciences at the graduate/doctoral level.

The goals of undergraduate MATHFest are:

- 1. To bring together juniors and seniors from HBCU's/MI's who have been identified as having promise or interest in pursuing graduate degrees in the mathematical sciences;
- 2. To introduce the students to current areas of mathematical research and to encourage their interest toward research careers;
- 3. To motivate students, especially American minorities, through exposure to mathematicians who can serve as role models;
- 4. To provide an opportunity for students to report on the results of their summer or academic year research activities;
- 5. To provide students with an opportunity to become familiar with many of the different kinds of exciting careers in the mathematical sciences;
- 6. To familiarize students with the graduate school process, the choices that must be made, and related issues; and
- 7. To provide an opportunity for one-on-one and group discussions for undergraduates with guest scientists, graduate school representatives, graduate students, and other undergraduate students;

Annually, NAM proposes to invite at least 75 undergraduate mathematics students (mostly seniors) from approximately 35 different HBCU's/MI's to a three-day undergraduate mathematical science research conference during a weekend in October or November. The program for the conference will include presentations by noted research mathematicians who will introduce students to current research topics. Students will also be introduced to several research career areas in the mathematical sciences. In addition, some students will report on their research conducted during summer and academic year programs. Another feature of the program will be the focus on graduate schools: selection, matriculation, support systems, and other issues related to succeeding, as well as direct contact with graduate school representatives for assisting with matriculation to graduate school during the next academic year.

Acknowledgments

The National Association of Mathematicians (NAM) wishes to express its profound gratitude to the following persons for the splendid support and cooperation that it received in the planning and implementation of this conference:

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Dr. Scott Williams, NAM Board, Editor, SUNY at Buffalo

Dr. Duane Cooper, University of Maryland, College Park

Dr. Leon Woodson, Executive Secretary, NAM, Morgan State University

Andrew W. Mellon Foundation, National Science Foundation and The U. S. Department of Education

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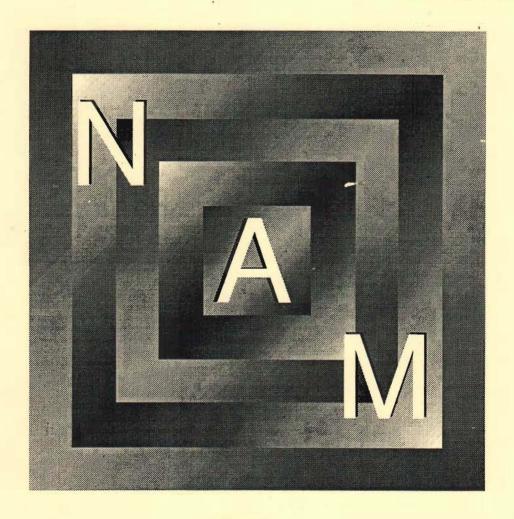
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