



## AGENDA

# Ninth Annual National Alliance for Doctoral Studies in the Mathematical Sciences Field of Dreams Conference

*November 6-8, 2015*

### Friday, November 6

Time	Event
12:00-6:00 pm <b>(Birmingham Ballroom Pre Function Foyer)</b>	Registration
12:00-2:30 pm	Mix, Mingle and Network
1:30-2:30 pm <b>(Birmingham 11)</b>	<p><b>Maximizing Opportunities</b> Interactive workshop</p> <p><b>Facilitators:</b> Dr. Syvillia Averett- Central State University; Dr. Candice Price-Sam Houston State University; and Dr. Reginald McGee-The Ohio State University</p>
2:30-4:00 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<p><b>Presentations by Math Science Institute Post-Doctoral Fellows</b> There are nine NSF-funded mathematics institutes in the United States: AIM, IAS/PCMI, ICERM, IMA, IPAM, MBI, MSRI, NIMBioS, and SAMSI.</p> <p>2:30 <b>SAMSI</b>—Dr. Adam Jaeger-Duke University <i>“Topological Data Analysis: An Introduction”</i></p> <p>3:00 <b>MSRI</b>—Dr. Jamylle Carter-Diablo Valley College <i>“A Multigrid Dual Method for Total Variation-Based Image Restoration”</i></p> <p>3:30 <b>MBI</b>—Dr. Reginald McGee-The Ohio State University <i>“Your data ain’t got nothing on MINE: Maximally Informative Next Experiments in systems biology.”</i></p>
2:30-4:00pm <b>(Birmingham 9)</b>	<p><b>Mentor Best Practices Seminar</b> (all mentors to discuss the mentoring community)</p> <p><b>Facilitator:</b> Dr. Phil Kutzko-The University of Iowa</p> <p><b>Panelists:</b> Dr. Joan Evans-Texas Southern University; Dr. Brian Loft-Sam Houston State University; and Dr. Donald Cole-University of Mississippi</p>
4:00-5:00 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<p><b>REU- The Value of a Research Experience</b> Summer internships are a great way to learn more about the climate and culture of graduate school.</p> <p><b>Moderator:</b> Dr. William Velez-University of Arizona</p> <p><b>Panelists:</b> Dr. Glenn Ledder-University of Nebraska-Lincoln, Dr. Jonathan Hodge-Grand Valley State University; Dr. Ulrica Wilson-Morehouse College; Dr. Howard Chang-Emory University; Ethan Bush, University of Michigan-Flint and Kyle Flanagan, St. Mary’s College of Maryland.</p>
5:00-6:00 <b>(Birmingham 3,4, 7 &amp; 8)</b>	<p><b>Math Sciences – What are they? (Applied Math, Pure Math, Applied Statistics, Statistics, Biostatistics)</b></p> <p><b>Moderator:</b> Dr. Russell Brown-University of Kentucky</p> <p><b>Panel:</b> Dr. Leslie McClure-Drexel University; Dr. David Goldberg-Purdue University; and Dr. Hal Smith-Arizona State University</p>
6:30-8:30 pm <b>Light meal reception (Birmingham 1,5 &amp; pre-function foyer)</b>	<p><b>National Alliance Networking Reception</b></p> <ul style="list-style-type: none"> <li>• Math Science Institute Informational Tables</li> <li>• Doctoral Student Poster Presentations</li> <li>• Employment Opportunities</li> <li>• Exhibitors Fair</li> </ul>

8:00-10:30 pm	<b>Alliance Community Networking</b> <ul style="list-style-type: none"> <li>• There will be an opportunity for graduating doctoral students to meet informally with representatives of math science departments who will be advertising positions for Fall 2016</li> <li>• Rooms have been reserved for Student/Faculty networking</li> <li>• Regional Meetings (notify Billie or Miles if you need a room)</li> </ul>
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## Saturday, November 7

Time/Location	Event
7:30-12:00 pm	Registration
7:30-8:30 am <b>(Birmingham 3,4, 7 &amp; 8)</b>	Breakfast
8:00-8:30 am <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Welcome</b> <ul style="list-style-type: none"> <li>• Dr. Philip Kutzko, Professor of Mathematics, University of Iowa and Director, National Alliance for Doctoral Studies in the Mathematical Sciences</li> <li>• Dr. David T. Redden, Professor and Chair, Biostatistics, University of Alabama at Birmingham</li> </ul>
8:30-9:30 am <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Future of the Alliance</b> Dr. Phil Kutzko
9:30-10:30 am <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Math Science Talk-</b> <b>Speaker:</b> Dr. Michael Reed, Duke University "How can mathematics contribute to precision medicine?"
10:30-10:45 am	Break
10:45-11:00 am <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Facilitated Graduate Applications Process Report: 2014 and 2015</b> Billie Townsend & Miles Dietz
11:00-12:00 pm <b>(Birmingham 11)</b>	<b>Mentoring at the Doctoral Level</b> Alliance Doctoral Mentors will discuss their experiences and lessons learned. They will discuss the role that mentors play at PhD granting departments and give some practical advice for new mentors.  <b>Moderator:</b> Dr. Tuncay Aktosun-University of Texas at Arlington <b>Panel:</b> Dr. Loek Helminck-North Carolina State University; Dr. Colleen Mitchell-The University of Iowa; and Professor Greg Samsa-Duke University
11:00-12:00 pm <b>(Birmingham 12)</b>	<b>Mentoring at the Predoctoral Level</b> Panelists will discuss best practices for mentors at undergraduate and Master's granting institutions.  <b>Moderator:</b> Dr. Ann Podleski-Harris-Stowe State University <b>Panel:</b> Dr. John Rock-California State Polytechnic University, Pomona; Dr. Theresa Martines-University of the Incarnate Word; Dr. Kim Weems-North Carolina Central University; and Dr. Reyes M. Ortiz Albino-University of Puerto Rico-Mayaguez

11:00-12:15 pm <b>(Birmingham 9)</b>	<p><b>The Doctoral Experience <i>(for predoctoral and doctoral students only!)</i></b>  How to succeed in a math science doctoral program. Alliance PhD graduates tell their stories.</p> <p><b>Moderator:</b> Dr. Candice Price-Sam Houston State University  <b>Panel:</b> Dr. Reggie McGee-The Ohio State University; Rolando de Santiago-The University of Iowa; and Kevin Jones-University of Kentucky</p>
12:15-1:15 pm	<b>Lunch</b>
1:30-2:30 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<p><b>Academic Careers in the Mathematical Sciences</b>  Panelists will discuss the many different opportunities available to PhDs in the mathematical sciences.</p> <p><b>Moderator:</b> Dr. Michael Young-Iowa State University  <b>Panel:</b> Dr. Stephen Montgomery-Smith- University of Missouri; Dr. Matthias Beck-San Francisco State University; Dr. Steve Miller-Williams College; and Dr. David Glickenstein-University of Arizona</p>
1:30-2:30 pm <b>(Birmingham 11)</b>	<p><b>Alliance Regional Reports:</b>  Gulf States Region – Dr. Joe Omojola – Southern University at New Orleans  Midwest Region – Dr. Michael Young (representing Dr. Leslie Hogben) – Iowa State University  Northeast Region – Dr. Louis Beaugris – Kean University  Pacific Region – Dr. Helena Noronha – California State University, Northridge  Caribbean Region – Dr. Reyes M. Ortiz-Albino – University of Puerto Rico, Mayaguez  Southeast Region – Dr. Ulrica Wilson – Morehouse University  Southwest Region – Dr. Erika Camacho – Arizona State University</p>
2:30-3:30 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<p><b>Paths to the doctorate: finding the right graduate program for you</b>  As a graduating senior you are faced with many choices when it comes to selecting a graduate program. Should you enter a doctoral program, select a Master’s program or choose one of the new post baccalaureate programs before entering a doctoral program? How will you know which program is the best fit for you? How do you succeed in a math science graduate program? Our panelists, all of them math sciences faculty, will address these questions.</p> <p><b>Moderator:</b> Dr. Lester Jones-Xavier University  <b>Panel:</b> Dr. David Harrington-Harvard University; Dr. Lisa Traynor-Bryn Mawr University; Dr. Ruth Haas-Smith College; and Dr. Mansoor Haider-North Carolina State University</p>
2:30-3:30 pm <b>(Birmingham 11)</b>	<p><b>The Alliance Statistics Initiative</b>  Dr. Leslie McClure-Drexel University and Dr. Kim Weems-North Carolina Central University</p> <p>To discuss recent developments by the Alliance Statistics Initiative.</p>
2:30-3:30 pm <b>(Birmingham 9)</b>	<b>Mentor Networking Session</b>
3:30-4:30 pm <b>(Birmingham 11)</b>	<p><b>How to Prepare for your first academic position</b>  Each of the various faculty positions in the mathematical sciences requires special skills and training. Our panelists will discuss ways in which you can gain these qualifications while in graduate school.</p> <p><b>Moderator:</b> Dr. Dan Frohardt-Wayne State University  <b>Panel:</b> Dr. Mohan Kumar Neithalath-Washington University in St. Louis; Dr. Mark Tomforde-University of Houston; and Dr. Helena Noronha-California State University Northridge</p>

3:30-4:30 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Careers in Industry and Government</b> <b>Moderator:</b> Dr. Erika Camacho, Arizona State University <b>Panel:</b> Dr. David T. Redden, University of Alabama-Biostatistics; Dr. Robert Ankenmann, University of Iowa-Testing and Measurement; and Dr. Charity Morgan, University of Alabama Birmingham-Biostatistics
4:30-6:15 pm <b>Birmingham Ballroom Pre Function and foyer</b>	<b>Graduate Department /Career/Summer Programs Fair</b>
6:15-9:00 pm <b>(Birmingham 3,4, 7 &amp; 8)</b>	<b>Banquet &amp; Keynote Presentation</b> <ul style="list-style-type: none"> <li>• <b>Introductions:</b> Dr. Philip Kutzko-University of Iowa</li> <li>• <b>Keynote Speaker:</b> Dr. Talithia Williams-Harvey Mudd College  “Math with meaning: “Living your life with impact”</li> </ul> <p><i>To live a life with purpose and meaning, you must establish guiding principles that consistently move you in the direction of the quality of life that you desire. For me, this is a balancing act of maintaining a persistent allegiance to my guiding principles of Faith, Family, Function, and Fitness, while experiencing excellence in my academic and career pursuits. In this talk, I'll share the ups and downs of my mathematical journey and how it connects to the whole person I've become today.</i></p>

## Sunday, November 8

Time/Location	Event
8:00-10:00 am	<b>Breakfast Buffet/Grab and Go</b>
8:30-11:30 am <b>(Birmingham 9)</b>	<b>Alliance Faculty/Mentors Meeting - Wrap up session</b> Dr. Phil Kutzko
<b>(Birmingham 1 &amp; 5)</b>	<b>Waiting room for faculty and students until time to leave for the airport</b>

**We are grateful for the generous support and funding from our sponsors.**

**Thank you!**

National Science Foundation | Alfred P. Sloan Foundation | The University of Alabama at Birmingham, Department of Biostatistics | Xavier University of Louisiana

