



**National
Security
Agency**

4th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS4) Preliminary Program

Lucent Technologies
Bell Labs Innovations

June 16-19, 1998
Rice University



In June, the Center for Research on Parallel Computation (CRPC), an NSF-funded Science and Technology Center, will host the 4th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS4) at Rice University. The main goal of this conference is to highlight current work by African-American researchers and graduate students in mathematics. This conference will strengthen the mathematical sciences by encouraging the increased participation of African-American and underrepresented groups into the field, facilitating working relationships between them and helping to cultivate their careers. In addition to the talks there will be a graduate student poster session and tutorials on topics in mathematics and computer science. These talks, presentations, and discussions will bring a broader perspective to the critical issues involving minority participation in mathematics.

Invited Speakers: Earl R. Barnes, Johnnie E. Brown, James H. Curry, Amassa Fauntleroy, Charles R. Hardnett, Stacy D. Hill, Yves Darly Jean, William A. Massey, Christine McMillan, Robert E. Megginson, Roderick Moten, Mark A.S. Smith, Richard A. Tapia, Elaine Terry, Donald C. Williams, Luther S. Williams, and Pamela J. Williams.

Contributed Poster Session: Lodging and transportation are available to authors of posters selected for the conference. Please indicate your intent to participate and send your title and abstract by email (please send only a textfile) to William A. Massey (908-582-3225, will@research.bell-labs.com) no later than May 15. Call for Posters

Conference Sponsors: Bell Laboratories of Lucent Technologies, The Department of Energy, and The National Security Agency.

General Information

- Schedule
- Registration Form - Online or Hardcopy
- CAARMS4 Publicity Flyer
- CAARMS4 Conference Attendees Contact Information

Lodging and Transportation

- Hotel Information
- Airport-Hilton Directions
- Airport-Crowne Plaza Directions
- Directions to CRPC Headquarters at Rice University

For More Information on...

- This event
- Last year's conference
- The Center for Research on Parallel Computation (CRPC)
- Rice University
- The Rice Village (Area Restaurants, Shops, Entertainment, Etc.)
- Houston

Hotel Information

Theresa Chatman has reserved a block of rooms at the Houston Plaza Hilton, 6633 Travis, 713-313-4606, 713-313-4660 fax. When making your reservations, please refer to the CAARMS4 Conference. The Hilton will serve as our headquarters hotel, and we also have a block of overflow rooms at the Crowne Plaza. The deadline for making reservations is June 8, 1998. Please contact Theresa if you have any further questions about local arrangements.

For More Information...

For more information on this event, contact Theresa Chatman, CRPC Manager of Outreach Programs, at tlc@cs.rice.edu, 713/285-5180 (phone), or 713/285-5136 (fax).

Conference Organizers: William Massey, Richard Tapia, Pam Williams, Nathaniel Dean, Cassandra McZeal, Donald Williams

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Updated by Jennifer Lin (jenlin@rice.edu) & Philip Blaiklock (philipb@rice.edu)
<http://www.crpc.rice.edu/CRPC/CAARMS4/index.html>

CAARMS4 Schedule

<http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html>

Reception and Preview (Tuesday, June 16)

Welcome, Talks & Tutorials, and Poster Session (Wednesday, June 17)

Talks, Tutorials and Banquet (Thursday, June 18)

Talks and Tutorials (Friday, June 19)

Directions to Duncan Hall

**Reception and Preview
Tuesday, June 16, 1998
Duncan Hall, McMurtry Auditorium**

<http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html#June16>

5:30 PM - 7:30 PM

Welcoming Reception at the Houston Plaza Hilton, Garden Terrace, 9th Floor

8:00 PM - 9:30 PM

Evening Forum: Conference Preview, Houston Plaza Hilton, Garden Terrace, 9th Floor

**Welcome, Talks & Tutorials, and Poster Session
Wednesday, June 17, 1998
Duncan Hall, McMurtry Auditorium**

<http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html#June17>

7:45 AM

Bus leaves Hilton Hotel for Rice University, Duncan Hall

8:00 AM

Breakfast and Registration

8:30 AM

Welcome and Introduction

9:00 AM

Relaxing Chaotic Behavior

James H. Curry
University of Colorado at Boulder

10:00 AM

Coffee Break

10:30 AM

Min-max problems for partial differential equations

Christine McMillan
Virginia Polytechnic Institute and State University

11:30 AM

Lunch, Martel Hall

12:30 PM

Contributed Talk #1
Abstract Differential Equations with Almost Automorphic Mild Solutions

Gaston M. Nguerekata
Morgan State University

1:00 PM

Contributed Talk #2
The Fixed Point Property for Posets of Small Width

Jonathan David Farley
Vanderbilt University

1:30 PM

Break

1:45 PM

Locating Critical Points of Polynomials: Sendov's Conjecture

Johnny E. Brown
Purdue University

2:45 PM

Coffee Break and Group Photo

3:15 PM	Just the Facts, Jack: Truths and Myths of Automated Theorem Provers	Roderick Moten Colgate University
4:15 PM	<i>Break</i>	
4:45 PM	Graduate Student Poster Session & Reception, Duncan Hall, Room 3092	
7:15 PM	<i>Bus leaves Rice University for Hilton Hotel</i>	
8:00 PM - 9:30 PM	Evening Forum: Meet the Sponsors Houston Plaza Hilton, Garden Terrace, 9th Floor	

Talks, Tutorials and Banquet
Thursday, June 18, 1998
Duncan Hall, McMurtry Auditorium

<http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html#June18>

8:15 AM	<i>Bus leaves Hilton Hotel for Rice University, Duncan Hall</i>	
8:30 AM	<i>Breakfast</i>	
9:00 AM	Finite Sums and Products in Ramsey Theory	Elaine Terry St. Joseph's University
10:00 AM	<i>Coffee Break</i>	
10:30 AM	Formal Verification of Safety and Performance Properties of TCP Selective Acknowledgment	Mark A.S. Smith AT&T Labs Research
11:30 AM	<i>Lunch, Martel Hall</i>	
12:30 PM	Latex Tutorial	Donald C. Williams Rice University
1:30 PM	<i>Break</i>	
1:45 PM	Chebyshev Sets in Banach Spaces, and an Open Problem	Robert E. Megginson University of Michigan - Ann Arbor
2:45 PM	<i>Coffee Break</i>	
3:15 PM	Complete Intersections in Toric Varieties and Their Moduli	Amassa Fauntleroy North Carolina State University
4:15 PM	<i>Break</i>	
4:30 PM	Probability Tutorial	William A. Massey Bell Labs of Lucent Technologies
6:15 PM	<i>Bus leaves Rice University for Hilton Hotel</i>	
6:30 PM	<i>Reception, Houston Plaza Hilton, Travis C</i>	
7:00 PM - 9:00 PM	<i>Banquet and Keynote Address</i> Houston Plaza Hilton, Hilton Room	Luther S. Williams National Science Foundation

Talks and Tutorials
Friday, June 19, 1998
Duncan Hall, McMurtry Auditorium

<http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html#June19>

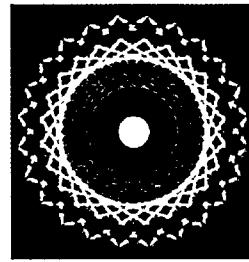
8:15 AM	<i>Bus leaves Hilton Hotel for Rice University, Duncan Hall</i>	
8:30 AM	<i>Breakfast</i>	

9:00 AM	Talk #9	Yves Darly Jean Bell Labs of Lucent Technologies
10:00 AM	<i>Coffee Break</i>	
10:30 AM	Simulation Optimization of Discrete Event Systems via Simultaneous Perturbation	Stacy D. Hill Johns Hopkins Applied Physics Labs
11:30 AM	<i>Lunch, Martel Hall</i>	
12:30 PM	Linear Algebra Tutorial	Earl R. Barnes Georgia Institute of Technology
1:30 PM	<i>Break</i>	
1:45 PM	New Directions in Finite Termination Procedures	Pamela J. Williams Rice University
2:45 PM	<i>Coffee Break</i>	
3:15 PM - 4:45 PM	Internet Tutorial	Charles R. Hardnett Spelman College
5:00 PM - 7:30 PM	<i>End of Conference Festivities, Rice University, Duncan Hall, Martel Hall</i>	
7:30 PM	<i>Bus leaves Rice University for Hilton Hotel</i>	

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Updated by jenlin@rice.edu & philipb@rice.edu
URL <http://www.crpc.rice.edu/CRPC/CAARMS4/schedule.html>

Fourth Conference for African-American Researchers in the Mathematical Sciences (CAARMS4)



at the Center for Research on Parallel Computation (CRPC), Rice University,
6100 Main Street, MS-41, Houston, Texas 77005-1892

Conference Sponsors

Bell Laboratories Lucent Technologies The Department of Energy The National Security Agency

Keynote Banquet Speaker

Complex Analysis

Dynamical Systems

Algebraic Geometry

Statistics

Computer Science

Control Theory

Functional Analysis

Optimization

Topological Semigroups

Organizers: William A. Massey (903) 532-3225 and Pamela J. Williams (713) 527-8101, x2859. To register for the conference, contact Theresa Chatman, CRPC Manager of Outreach Programs at tlc@cs.rice.edu, (713) 285-5180 (phone), or (713) 285-3136 (fax). Registration forms and more information are available at <http://www.crpc.rice.edu/CRPC/CAARMS4/>.

philipb@rice.edu

<http://www.crpc.rice.edu/CRPC/CAARMS4/flyer.html>

CAARMS4 Conference Attendees Contact Information

Darry Andrews, Member of Technical Staff, Lucent Technologies
[REDACTED]

Earl Barnes, Prof. School of Industrial & Systems Eng.
[REDACTED]

Della D. Bell, Professor of Mathematics, Texas Southern University
[REDACTED]

Neal Brand, Professor
[REDACTED]

Eric Brittain, Grad Student, Massachusetts Institute of Technology
[REDACTED]

Johnny E. Brown, Prof., Department of Mathematics, Purdue University
[REDACTED]

Allison Byrd, Student, Florida A&M University
[REDACTED]

Jean Cadet, SUNY at Stony Brook,
[REDACTED]

Jamville Laurice Carter, Grad Student, University of California at Los Angeles
[REDACTED]

Judy Cassamajor, Grad Student, University of Michigan,
[REDACTED]

Richard M. Charles, Grad Student, University of Colorado at Boulder
[REDACTED]

Theresa Chatman, Manager of Outreach Programs, CRPC
[REDACTED]

William Christian, Grad Student, Rice University,
[REDACTED]

Melvin Currie, National Security Agency,
[REDACTED]

James H. Curry, Department of Applied Mathematics, University of Colorado
[REDACTED]

Dennis E. Davenport, Miami University,
[REDACTED]

Dennis A. Dean, Grad Student, Northeastern University,
[REDACTED]

Nathaniel Dean, Professor, Rice University,

Barbara Deuink, NSA

James A. Donaldson, Professor, NAM AMS MAA AWM SIAM

Catherine Douglas, Student, UCLA Mathematics

Jonathan David Farley, Professor of Mathematics, Vanderbilt University

Amassa Fauntleroy, Professor of Mathematic, North Carolina State

Harold Figueroa, Grad Student, Cornell University

Nancy Glenn, Grad Student, Rice University

Edray Herber Goins, Grad Student, Stanford University

Angela Grant, Grad Student, University of Michigan

Madison B. Grav. Grad Student. University of California at Los Angeles

Charles R. Hardnett, Asst. Professor, Spelman College

Isom H. Herron, Prof of Mathematical Sciences, Rensselaer Polytechnic Institute

Illya Hicks, Grad Student, Rice University

Raquel Hill, Grad Student, Harvard University

Regina Hill, Grad Student, Rice University

Stacy Douglas Hill, Senior Staff Member, Johns Hopkins University

Rudy Horne, Graduate Student, University of Colorado

Johnny L. Houston, Executive Secretary, Nat'l Assoc. of Mathematicians ECSU
[REDACTED]

Jamila Jones, Student, Florida A&M University
[REDACTED]

Selwyn Joseph, Staff Manager, Lucent Technologies
[REDACTED]

Donald R. King, Assoc. Professor, Northeastern University
[REDACTED]

Kathryn Lewis, Grad Student, Purdue University
[REDACTED]

Mark Lewis, School of Industrial & Systems Eng, Grad Stu.
[REDACTED]

Vernard Martin, Grad Student, Georgia Institute of Technology
[REDACTED]

William A. Massey, Bell Laboratories, Lucent Technologies
[REDACTED]

Don McIntyre, MTS Lucent Technologies
[REDACTED]

Christine McMillan, Assistant Professor, Virginia Polytechnic Institute & State University
[REDACTED]

Cassandra McZeal, Grad Student, Rice University
[REDACTED]

Robert E. Megginson, Department of Mathematics, University of Michigan
[REDACTED]

Luis Melara, Grad Student, Rice University
[REDACTED]

Rod Moten, Department of Computer Science
[REDACTED]

Gaston M. Nguerekata, Associate Prof, Dept of Mathematics, Morgan State University
[REDACTED]

Yared Nigussie, Grad Student, Ohio State University
[REDACTED]

Asamoah Nkwanta, Morgan State University
[REDACTED]

Janis Oldham, NAM Newsletter Editor, National Association of
[REDACTED]

Mathematicians

of Discrete Mathematics

Gloria L. Porter, Mathematics Instructor

DPS

Robert L. Powell, Sr. Director, Visual Mathematics Lab, The Practical Science Institute

Nell Rayburn, Associate Professor, Austin Peay State University

Ahmad Ridley, Grad Student, University of Maryland College Park

Rhonda Vonshay Sharpe, Grad Student, Claremont Graduate University

Charles P. Shelton, Senior Technical Associate, Lucent Technologies / Bell Labs

Mark A.S. Smith, AT&T Labs Research A005

Roland Smith, Associate Provost, Rice University

Idris Stovall, University of Massachusetts

Craig Sutton, Mathematics Dept, University of Michigan

Barbara Tankersley, Grad Student, NC Agricultural & Technological State U

Elaine Terry, Dept of Mathematics and Computer Science, St. JosephUs University

Evelyn E. Thornton, Professor and Chair, Dept of Mathematics, Prairie View A&M University

Leticia Velazquez, Grad Student, Rice University

Maria Cristina Villalobos Grad Student, Rice University

Rodney B. Wallace, Grad Student, George Washington University

Talitha Washington, Grad Student, Dept of Mathematics, University of Connneticutt

Stanley Wayment, Chair, Department of Mathematics, Southwest Texas State University

Kimberly Weems, Grad Student, University of Maryland College Park
1901 Maryland Hall for Culture and Art, Room 207/210, 4015

J. Ernest Wilkins, Jr. Distinguished Professor, Clark Atlanta University
[REDACTED]

Donald C. Williams, Grad Student, Rice University
[REDACTED]
[REDACTED]@rice.edu

Lloyd K. Williams, Professor of Mathematics, Texas Southern University
[REDACTED]

Luther S. Williams, Asst. Director of Education and Human Res., National
Science Foundation

Pamela J. Williams, Rice University
[REDACTED]
[REDACTED]

Roselyn E. Williams, Chairperson, Math Department, Florida A&M University
[REDACTED]

Leon Woodson, Graduate Coordinator, Morgan State University
[REDACTED]
[REDACTED]

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Updated by philipb@rice.edu
URL <http://www.crpc.rice.edu/CRPC/CAARMS4/contacts.html>