



**National  
Security  
Agency**

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

**June 16-19, 1998  
Rice University**

**Lucent Technologies**  
Bell Labs Innovations



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>

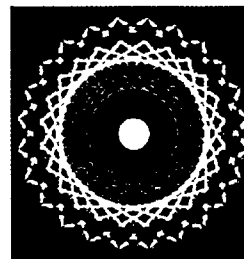
8:15 AM	<i>Bus leaves Hilton Hotel for Rice University, Duncan Hall</i>	
8:30 AM	<i>Breakfast</i>	

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 (908) 582-3225 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](mailto:tlc@cs.rice.edu), (713) 285-5180 (phone), or (713) 285-5136 (fax). Registration forms and more information are available at <http://www.crpc.rice.edu/CRPC/CAARMS4/>.

[philipb@rice.edu](mailto:philipb@rice.edu)

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



## CAARMS4 Conference Attendees Contact Information

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