National Association of Mathematicians

# Newsletter

Volume XLI Number 2 Summer 2010

## Contents



# *Educate, Empower and Create New Frontiers*

## Infinite Possibilities Conference 2010

The Infinite Possibilities Conference took place from March 18 through 21 at the University of California, Los Angeles and was hosted by the Institute for Pure and Applied Mathematics (IPAM).

Pictured on the top row (from left to right): Michelle Craddock (United States Military Academy, West Point), Asya Jones (Spelman College), and Roselyn Williams (Florida A&M University); Pictured on the bottom row: Suzanne Weekes (Worcester Polytechnic Institute), Monica Jackson (American University), Kimberly Sellers (Georgetown University), and Denise Brewley-Corbin (Georgia Gwinnett College)

# The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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**NAM's Official Webpage:** http://www.nam-math.org

**NAM's History and Goals:** The National Association of Mathematicians, Inc., known as NAM was founded in 1969. NAM, a nonprofit professional organization, has always had as its main objectives, the promotion of excellence in the mathematical sciences and the promotion and mathematical development of under-represented minority mathematicians and mathematics students. It also aims to address the issue of the serious shortage of minorities in the workforce of mathematical scientists.

## From the Editor

The end of the academic year brings excitement and new beginnings. Now that our students have moved on to the next phase of their lives, many of us have also moved on to our next phase. Two of my college professors retired this year: Drs. Gladys Glass of Spelman College and Robert Bozeman of Morehouse College.

Taking differential equations with Glass at 8 o-clock in the morning was a lively experience. She always entered the classroom with a smile, but, once she looked at you over her glasses, you knew that her smile faded. Her expectations where high and intense, and she demanded that our work to be precise. She encouraged us to excel in math as well as enjoy it along the way. In my final semester of college, I took a numerical methods class with Bozeman. On the first day, I entered his class and found myself to be the only female in the room; immediately, I felt intimidated. Unfortunately, in his class, I failed my first exam—ever! Throughout the semester, he challenged us to think beyond the textbook and to persevere. It is this spirit which motivated me to ace the final exam—but only after a copious amount of vicious studying. Now, when I apply numerical techniques to the differential equations which occur in my research, I am extremely thankful to have been taught by them.

In this edition, we focus on commencements. The third Infinite Possibilities Conference created opportunities for minority women in mathematics and statistics. Johnny Houston begins his distinguished emeritus status at ECSU. West Point sets forth systematic efforts to diversify the STEM disciplines. The Blackwell-Tapia Conference honors a new generation by celebrating Trachette Jackson. Even though Jaime Escalante has passed on, his efforts can be seen and felt around the world. He continues to inspire mathematical beginnings for many and intensely reminds us to strive forward and proceed with *muchas ganas* as we continue our journeys.

*Enjoy!*

Talitha Washington

# ECSU Names Dr. Johnny Houston "Professor Emeritus"

Dr. Johnny L. Houston has retired after a tenure of 26 years at Elizabeth City State University (ECSU). Effective May 8, 2010, Houston was named Professor Emeritus of Mathematics. During his career in academia, Houston became a distinguished mathematical and computational scientist, an acclaimed international scholar, a proactive and visionary leader of systemic reforms, a promoter and supporter of education and humanitarian causes, and a civic activist.

Houston received a Bachelor of Arts in Mathematics from Morehouse College in 1964; a Master of Science in Mathematics from Atlanta University (Clark Atlanta University) in 1966; and a Doctor of Philosophy in Mathematics from Purdue University in 1974. Prior to joining Elizabeth City State University, Houston did formal study in mathematics at L'Universite de Strasbourg in France for a year, was Callaway Professor of Computer Science at Fort Valley State University, and served as Department Chair of Mathematics and Computer Science at Atlanta University. He has been a faculty member at Savannah State University, Purdue University, Stillman College, and Morehouse College.

Houston came to Elizabeth City State University in 1984. He has served as a Senior Research Professor of Mathematics and Computer Science; as Director of the ECSU Computational Science and Scientific Visualization Center (CSSV); as Program Director of the United States Agency for International Development (USAID) sponsored ECSU-Senegal Textbooks and Learning Materials Program from 2005 through 2009; as Co-Founder and Director of ECSU's Global Leadership Academy (GLA); and as ECSU's Vice Chancellor for Academic Affairs and Dean of the Faculty from 1984 through 1988 where he required the computerization of all academic departments. Through these positions, he secured over $15 million in grants.

Johnny Houston

Houston has been a prolific scholar. He has authored several books and scores of publications, given numerous addresses throughout the United States, visited 50 countries, and participated at conferences on five continents. As Houston is fluent in English, French, Spanish, and German, he has served on boards and committees for several international mathematical organizations. He has been instrumental in writing and producing millions of textbooks for African youth; this brought him recognition as a specialist in international affairs, especially throughout Africa.

Houston has received many awards and recognitions, including the University of North Carolina Board of Governors Annual Award for Excellence in Teaching in 1996, the North Carolina Governor Service Award in 1998, the National Association of Mathematicians Lifetime Achievement Award in 1999, the Elizabeth City State University Chancellor Award in 2004, and most recently the Purdue University Black Community Center Pioneer Award in 2009. In September of 2008, Houston was invited to be a guest at the White House for a State Dinner in honor of John Kufour, then President of Ghana.

Over the years, Houston has educated hundreds of students, with many continuing to earn advanced degrees. He has personally established several scholarships—with funding opportunities exceeding $50,000. In 1969, Houston was one of 17 mathematical scientists that "became committed to helping a new era in the mathematical sciences in the USA" by creating the National Association of Mathematicians (NAM). From 1975 to 2000, Houston served as NAM's first executive secretary. Houston continues to be a driving force for NAM. In 2000, he published a 250-page book that chronicles the history of NAM [1]. Houston's tireless efforts have redefined the mathematical landscape that will benefit many for years to come. We wish him well as he transitions to the next phase of his storied career.

From left to right: Johnny Houston, Theresa Kufuor (former First Lady of Ghana), Laura Bush (former first Lady of USA), John Kufuor (former President of Ghana); George W. Bush (former President of USA), and Sarah Moten (former Education Division Chief of Bureau for Africa, USAID)

**References**

[1] J. Houston, *The History of the National Association of Mathematicians, Inc., The First Thirty Years, 1969-1999.*

# Just How Many Sudoku Puzzles Are There?

*Edray Goins*

Edray Goins

Sudoku is a favorite among mathematicians, not just for recreation but also for research. Some care about how to solve them, but others care about how to create them. The most fascinating question is: *just how many Sudoku games are there?*

Sudoku was most likely inspired by the work of Swiss mathematician Leonhard Euler. He square $n \times n$ grids—which he called "Latin Squares"—with the property that the numbers 1 through $n$ appear in each row and each column exactly once. You can convince yourself that there are only two 2-by-2 Latin squares, and twelve 3-by-3 Latin squares. Euler himself computed in 1782 that the number of 5-by-5 Latin squares is 161,280. (Try computing that by hand!) It wasn't until 1975 that Stanley Bammel and Jerome Rothstein, then of Ohio State University, showed that the number of 9-by-9 Latin squares is 5,524,751,496,156,892,842,531,225,600 (appeared in *Discrete Mathematics*, 11:93-95).

A solved Sudoku gives a type of 9-by-9 Latin square, but it has the extra condition that the numbers 1 through 9 must appear exactly once within each of the nine 3-by-3 regions. During the summer of 2005, Bertram Felgenhauer of the Technical University of Dresden and Frazer Jarvis of the University of Sheffield showed that there are exactly 6,670,903,752,021,072,936,960 possibilities for completed Sudoku puzzles. If you're a Sudoku enthusiast, you won't run out of puzzles to solve anytime soon!

Mathematicians are working on the following conjecture: no matter which Sudoku game you find, there will be at least 17 entries already in the grid to start you off. If you don't believe me, take a look at the game in your favorite newspaper, and count the number of entries which appear. Anyone care to try and prove it?

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 | 3 | | | 7 | | | | |
| 6 | | | 1 | 9 | 5 | | | |
| | 9 | 8 | | | | | 6 | |
| 8 | | | | 6 | | | | 3 |
| 4 | | | 8 | | 3 | | | 1 |
| 7 | | | | 2 | | | | 6 |
| | 6 | | | | | 2 | 8 | |
| | | | 4 | 1 | 9 | | | 5 |
| | | | | 8 | | | 7 | 9 |

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# Dr. Trachette Jackson Wins the Blackwell-Tapia Prize

Trachette Jackson

Dr. Trachette Jackson, Professor of Mathematics at the University of Michigan, Ann Arbor will be awarded the 2010 Blackwell-Tapia prize. The award will be presented at the Blackwell-Tapia Conference, to be held November 5-6, 2010 at the Mathematical Biosciences Institute at The Ohio State University. This prize "recognizes a mathematical scientist who has contributed and continues to contribute significantly to research in his or her field of expertise, and who has served as a role model for mathematical scientists and students from under-represented minority groups or contributed in other significant ways to addressing the problem of the under-representation of minorities in mathematics."

The National Blackwell-Tapia Committee states that "Jackson epitomizes world-class excellence in mathematical research." After receiving a Ph.D. in Applied Mathematics from the University of Washington in 1998, she won a very competitive Alfred P. Sloan Research Fellowship in 2003. She then rose to the rank of full professor in 2008 at the University of Michigan—only eight years after accepting a tenure-track position as assistant professor. There she co-founded and currently co-directs the Mathematical Biology Research Group, a campus-wide team that fosters research between leading scientists in over fifteen departments and research centers at the university to address cutting-edge topics in mathematical biology. Jackson's own research focuses on the modeling of *in vivo*

tumor vascularization, and she has played a central role in the development of one of the first cell-based models of tumor-induced angiogenesis.

The Committee also states that "Jackson has [...] had a major impact as a role model in settings in which she interacts with a significant number of minority graduate students and women." She has given plenary talks at the 2004 Enhancing Diversity in Graduate Education (EDGE) Conference at Spelman College; the 2008 national forum on Promoting Diversity at the Graduate Level in Mathematics held at the Mathematical Sciences Research Institute (MSRI); the national conference of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS); and the Conference for African American Researchers in the Mathematical Sciences (CAARMS).

The 2010 Blackwell-Tapia Conference will be the sixth in a series of biennial conferences honoring David H. Blackwell and Richard A. Tapia. For more information see:

http://mbi.osu.edu/2010/ctwdescription.html

# West Point on the Diversity Map

*Michelle Craddock, Donald Outing, Csilla Szabo, and Archie Wilmer*

The Center for Leadership and Diversity in STEM (CLD_STEM) sponsored its *First Annual Invitational Mathematics Meeting* in conjunction with the West Point *Eleventh Annual Diversity Leadership Conference* (DLC) on April 7-9, 2010. The meeting featured a variety of presentations that ranged from individual talks focused on initiatives to advance diversity in the STEM fields, to a panel discussion on improving developmental and college algebra programs at Historically Black Colleges and Universities (HBCUs) and Minority Serving Institutions (MSIs).

First Row (left to right): Don Small, Ericka Walker, Cheryl Outing, Nathanial Dean, Rhonda Hughes, William Massey, Abdul-Aziz Yakubu; Second row: Calandra Tate-Moore, Irene Haskins, Carlos Castillo-Chavez, Don King, Michelle Craddock, Rachelle DeCoste; Third row: Joe Joyner, Melvin Curry, Csilla Szabo, Scott Williams; Fourth row: Dennis Davenport, Michael Landin, Ericka Camacho, John Lambright, Archie Wilmer; last row Donald Outing, Michael Phillips, Leon Woodson, Fred Rickey, James Stith, Robert Bell, Robert Wieman

CLD_STEM is a new center established in the department of Mathematical Sciences at the United States Military Academy (West Point). Under the direction of LTC Donald A. Outing, its mission is to increase the recruitment and retention of underrepresented students in science, technology, engineering and mathematics (STEM). The CLD_STEM enhances the department's commitment to playing a national role in the challenge to reform and enrich mathematics programs while leveraging West Point's intellectual resources in science, technology, and engineering.

Dr. Carlos Castillo-Chavez of Arizona State University opened the meeting with a talk entitled "The Role of Leadership in Advancing Diversity in STEM Disciplines". He challenged STEM leaders to look beyond the misconception that the problem lies exclusively with the K-12 mathematics education system. He also discussed the need to develop strategies that effectively address the issues of diversity in STEM. He asked, "Why can't we find a systemic solution to the problem of inequity and underrepresentation in STEM disciplines?"

Castillo-Chavez's shared the elements of framework that he has put into place in order to increase US minority representation in the mathematical sciences. He emphasized that the current system of exclusion, regardless of its rationale, initial conditions and past history, can be obliterated as soon as the issue of underrepresentation becomes a national priority. Castillo-Chavez noted that we live in a society that continuously reinvents itself in the presence of new challenges. It is time for our nation to identify leadership as well as resources to address issues of diversity in STEM disciplines.

A panel on "Initiatives to Improve Developmental and College Algebra Programs" expressed the importance of reform in college algebra and calculus programs. The MAA *Curriculum Foundations Project: Voices of the Partner Disciplines (2004)* conveys the recommendations from faculty members in other [non-mathematics] disciplines. They recommend that mathematics departments should "Replace traditional college algebra courses with courses stressing problem solving, mathematical modeling, descriptive statistics, and applications in the appropriate technical

Jonathan Lambright

areas" and "deemphasize intricate algebraic manipulations." Dr. Jonathan Lambright of Savannah State University shared his school's goals to develop students' confidence in problem-solving through modeling and create exploratory learners. He stated that implementing the College Algebra Reform approach caused "in-classroom group work" to become a norm. Instructors using the reform approach observed that students enjoyed the group work and better comprehended the subject matter.

Dr. William Massey, Edwin S. Wilsey Professor of the Department of Operations Research and Financial Engineering at Princeton University, discussed "Visualizing a Unifying Vision for Mathematics". He gave vital information about the statistics of Americans and minorities receiving advanced degrees in mathematics. For example, of the 1430 PhD's awarded in the mathematical sciences by U.S. institutions, only 19 were awarded to African Americans, 19 to Latino/Hispanic Americans, and 4 to Native Americans. He shared his concerns about the next generation being trained properly in mathematics as well as motivated to study mathematics.

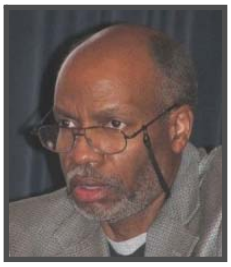
William Massey

Dr. Melvin Currie, Research Advocate at National Security Agency, gave a talk entitled "NSA: Two Decades of Community Engagement in Mathematics". He provided an overview of the approach taken by the National Security Agency (NSA) to fostering technical health and diversity in the U.S. mathematics community. In particular, he discussed initiatives carried out by NSA's mathematics community to build ties with women and underrepresented racial groups in mathematics as an effort to increase representation.

Following the *Invitational Mathematics Meeting*, CLD_STEM and the DLC held a panel discussion entitled "Supporting STEM Through Diversity." The moderator for the panel was Mr. Michael Gayle (USMA 1980), Manager of the Defense Programs at General Electric Global Research Center. The panelists included Carlos Castillo-Chavez, Melvin Currie, Dennis Davenport (Program Officer at the National Science Foundation, Division of Undergraduate Education), Mr. Jay Dodd (Vice President at Booz Allen Hamilton), Dr. Vallen Emery (Program Manager for the U.S. Army Research Laboratory, Special Projects and Historically Black Colleges and Universities and Minority/Institutions program), and Dr. James Stith (Vice President Emeritus of the American Institute of Physics). The panelists addressed the increasing demand for STEM graduates and the potential impact of shortages on the military and national economy in the absence of increased participation from across the Nation's diverse population. Additionally, they shared thoughts on how to expand interest in STEM disciplines.

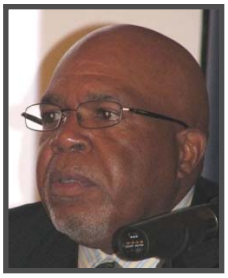
Carlos Castillo-Chavez

For most of the participating STEM professionals, this was their first visit to West Point. They were extremely impressed by the work done at West Point in the name of diversity, and they plan put West Point on the "Diversity Map". The organizers hope to increase attendance at next year's DLC and the *Second Annual Invitational Mathematics Meeting* that is planned for April 2011.



Melvin Currie

Dennis Davenport



Vallen Emery

James Stith

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# IMA Workshop on Career Options in Math

*Cheri Shakiban*

On March 25th – 27th, 2010, the Institute for Mathematics and Its Applications (IMA) hosted a two-day workshop on *Career Options for Underrepresented Groups in Mathematical Sciences* connecting underrepresented minorities in mathematical sciences with senior researchers working in academics, industry and governmental agencies. The primary mission of IMA is to increase the impact of mathematics by fostering research of a truly interdisciplinary nature, linking mathematics of the highest caliber and important scientific and technological problems from other disciplines and industry. The IMA provides an environment that is highly conducive for collaboration, bringing together mathematicians and scientists to discuss important research areas and problems, and to build lasting multidisciplinary research communities.

The organizers of the workshop presented the participants with some current trends in mathematical research by inviting active researchers to give dynamic talks in these areas. The main goal of the workshop was to encourage underrepresented minorities at various stages of their careers, including graduate students and postdocs with Ph.D.'s in mathematics or math related fields, to become prepared to work in the academics, industry or government labs. Senior professionals provided insight on what they wished someone had told them before they left graduate school. The speakers also talked about some of the surprises they found upon entering the workplace and how they managed to overcome the difficulties encountered. These talks were intended to provide an operational and constructive framework for direct interaction and discussion amongst workshop participants on the importance of networking, interviewing, negotiation and leadership skills for career success. A number of job opportunities were also discussed. In fact, after a speaker talked about exciting research opportunities for mathematics at one of the national labs, a participants landed a summer internship!

Jamylle Carter, Fern Hunt, and Juan Restrepo

In addition to research talks and a panel discussion that addressed a wide variety of strategies for overcoming obstacles faced by minorities, a poster session showcased the work of selected attendees displaying the contributions of minorities in the mathematical sciences. In the wrap-up discussions, the speakers underlined their overall positive impression of the outlook for minorities in mathematics: despite all the difficulties that minority researchers have encountered in their careers. The positive remarks the researchers shared on how to prepare and create a productive and enjoyable working experience was encouraging for the participants. The participants felt that the workshop gave them insight and showed them opportunities for a career in mathematical sciences. Many participants indicated that they gained a better understanding of the several active research areas in mathematical research and made many wonderful contacts.

The details of this workshop can be found at:
http://www.ima.umn.edu/2009-2010/SW3.25-3.27.10

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## Editor's Note

IMA hosts summer programs, special workshops for graduate students and faculty, conferences, interdisciplinary research experiences for undergraduates, as well as other programs. They encourage mathematicians to organize workshops on current trends of interdisciplinary nature.

# MBI's Visiting Lecturer Program

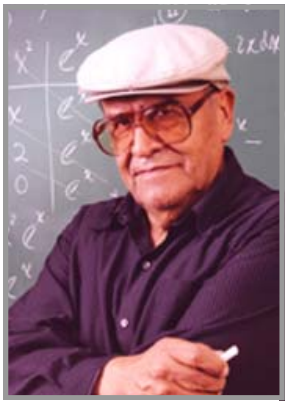
The Mathematical Biosciences Institute (MBI) at the Ohio State University developed the Visiting Lecturer Program in 2009 with the purpose of sponsoring visits of mathematical biologists to institutions that have large numbers of underrepresented undergraduate students in the mathematical sciences. The goal is to encourage members of these groups to go to graduate school and to develop careers in the mathematical biosciences.

Speakers in the Visiting Lecturer Program include Janet Best (Ohio State University), Emery Brown (Massachusetts Institute of Technology), Erika Camacho (Arizona State University), Carlos Castillo-Chavez (Arizona State University), Ricardo Cortez (Tulane University), Isabel Darcy (University of Iowa), Lisette de Pillis (Harvey Mudd College), Lisa Fauci (Tulane University), Marty Golubitsky (Ohio State), Christine Heitsch (Georgia Tech), Fern Hunt (Howard University, NIST), Trachette Jackson (University of Michigan), James Keener (University of Utah), Nancy Kopell (Boston University), Jonathan Mattingly (Duke University), Asamoah Nkwanta (Morgan State), Michael Reed (Duke University), Miranda I. Teboh-Ewungkem (Lafayette College), Talitha Washington (University of Evansville), and Abdul-Aziz Yakubu (Howard University).

In addition to delivering a lecture on mathematical biology that is accessible to an undergraduate audience, the lecturers will meet with individual students and with groups of interested faculty and students to further this purpose. Department Chairs can initiate discussions about bringing a Visiting Lecturer to campus by emailing Marty Golubitsky (Director of MBI) at mg@mbi.osu.edu. The Mathematical Biosciences Institute will support the expenses up to $800. MBI expects to support five visiting lectures per year. Detailed information can be found at the web page:

http://www.mbi.osu.edu/about/vlprogram.html

# SIAM News Announces: Expanding our Scope



Jaime Escalante

The Society for Industrial and Applied Mathematics (SIAM) will soon introduce a new feature to their monthly newsletter. *Expanding our Scope* is a new column devoted to stories that highlight the efforts of individuals to broaden participation in the mathematical sciences. The column will be edited by Carlos Castillo-Chavez, a Regents Professor and the Joaquin Bustoz Jr. Professor of Mathematical Biology at Arizona State University.

Castillo-Chavez wrote the first column with a piece entitled "The Intersecting Stories of Two Mathematicians Living in East LA," highlighting Jaime Escalante and Erika Camacho. Escalante, a math educator who passed away on March 30, was featured in the 1988 movie "Stand and Deliver"' for his efforts to inspire students in East Los Angeles to excel in mathematics. Erika Camacho was one of his former students who went on to become a professor of mathematics at Arizona State University. Castillo-Chavez writes:

> Garfield High School under Escalante became the model inner-city high school at which mathematics achievement is the norm. How did he do this? Escalante did not know the meaning of the word "remedial." His philosophy of shooting for the stars regardless of a student's initial conditions is indeed the material of which Hollywood movies are made.

The column will appear in print in the May 2010 issue of SIAM News. It can be found online at:
mcmsc.asu.edu/events/spotlights/expanding-our-scope220

As editor, Castillo-Chavez welcomes submissions and ideas for future columns. His email address is chavez@math.asu.edu.

# Pay NAM Membership Dues

Please pay your NAM dues. These funds finance NAM's programs and pay for the *Newsletter*. You may wish to consider being a lifetime member of NAM as it is very cost-effective. If you are unsure of your status or would like to update your mailing address, please email an inquiry to nam_newsletter@yahoo.com. See page 11 for the membership form. *Thank you!*

# Jacqueline Brannon Giles Honored for Service

Jacqueline Brannon Giles

On March 12, 2010, the Houston Community College (HCC) system honored Jacqueline Brannon Giles for 20 years of service. The HCC 2010 Employee Significance Ceremony and Awards Luncheon was held at the Crowne Plaza-Houston Medical Center. Giles is an instructor of mathematics at the Central College campus of the Houston Community College system.

Born in 1943 in Houston's Fifth Ward, Giles soon found a passion for mathematics. She graduated from Texas Southern University in 1966 with a Bachelor of Arts in Mathematics. She moved north upon being offered a fellowship, and earned a Bachelor of Science in Applied Mathematics from Polytechnic University in 1969. After a long absence, she decided to return to college to pursue an advanced degree: she matriculated at the Texas Agricultural and Mechanical University at College Station, where she earned a Master of Science degree in Mathematics in 1986. She continued on at Texas A&M College Station for three more years, first enrolling in the doctoral program in Mathematics (1986-1988) then the doctoral program in Interdisciplinary Engineering (1988-1989). It was during this final academic year at Texas A&M that Giles began working at Central College.

While at Central College, Giles has served as advisor for the Mathematics Club, organized activities for Math Awareness Week, and been a member of the Editorial Board for the College Algebra Reform Project. She is a Lifetime Member of NAM, and currently serves on the NAM Board as the Community College Member. Giles also lectures on and writes about the intersection of mathematics and sports. Recently, she gave a talk at this year's Joint Mathematical Meetings entitled “Exploring NFL Data to Determine ‘Who is the Greatest of Them All?’” Several of her articles can be found online at:

http://bleacherreport.com/sports-and-stem

# NAM Calendar

*Conferences & Workshops*

The **CAARMS 16** (Conference for African American Researchers in Mathematical Sciences) will be held on **June 15-18** in Baltimore, MD at the Mt. Washington Conference Center. For more information see: http://www.caarms.net/

The NAM **David Blackwell Lecture** at **MAA MathFest 2010** in Pittsburgh, PA will be given by Asamoah Nkwanta of Morgan State University on **Friday, August 6** at 1 pm. The **Pi Mu Epsilon J. Sutherland Frame Lecture** at **MAA MathFest** will be given by Nathanial Dean of Texas State University on **Friday, August 6** at 8 pm. See: http://www.maa.org/mathfest/

The **Benjamin Banneker Association Conference** is on **June 18-19** in Philadelphia, PA and will bring mathematics and science education researchers, psychologists and urban educators together in a forum to addressing the needs of African American students in mathematics. See: http://www.bannekermath.org

The **National Association of Mathematicians' Undergraduate MATHFest XX** will be in Miami, FL at Miami Dade College on **November 4-6**. Interested juniors/seniors and faculty should contact Leon Woodson at leon.woodson@morgan.edu for more information.

The **Blackwell-Tapia Conference** will take place on **November 5-6** at the Mathematical Biosciences Institute, The Ohio State University (see page 4 of this *Newsletter*). The conference will include a mix of activities including scientific talks, poster presentations, and ample opportunities for discussion and interaction. Registration information can be found here: http://mbi.osu.edu/2010/ctwdescription.html

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# Job Openings

For several years, NAM has had a web site with listings of open positions. This process is open to advertisers in the *Newsletter*. Advertisements too late for the publication date appear there. The remainder of the advertisements appear there six more weeks before they appear in print in the *Newsletter*. See the editor's website: http://faculty.evansville.edu/tw65/NAM.htm

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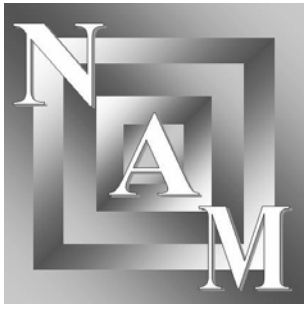


**Summer 2010**