

## Newsletter

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### *We Math So Hard*



### **NAM's Undergraduate MATHFest 2011**

On November 3-5, undergraduates from across the country presented their mathematical research at NAM's Undergraduate MATHFest. Through participating and engaging in mathematics, sharing graduate school information, and networking with professionals, students gain confidence and motivation to become future mathematicians and scientists. Dillard University in New Orleans, Louisiana graciously hosted and provided an atmosphere of support for the participants.

# The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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**NEW** webpage!  
[nam-newsletter.org](http://nam-newsletter.org)

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**NAM Newsletter Website:** <http://nam-newsletter.org>  
The website has a list of employment as well as summer opportunities on the *Advertisements* page. It also features past editions of the *Newsletter* on the *Archives* page.

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**NAM Website:** <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

Kanye West and Jay-Z, the two “kings of rap”, proclaim lyrically that they “ball so hard.” In no way am I promoting this song (nor do I completely understand the lyrics), but the catchy beats have taken over the music charts. These two “kings of rap” joined together and showed world that the two biggest hip hop artists can create an indomitable force.

At NAM's Undergraduate MATHFest (see cover), undergraduates from across the country demonstrated how they “*Math So Hard*.” They came to Dillard University and showed their greatness not only to others, but to themselves. This event keeps math relevant for those starting out in their mathematical journey.

Fortunately, there are many who actively engage in keeping mathematics relevant. Through developing a welcoming and collegial environment, the West Point Mathematics Department has a significant number of young African American mathematicians (page 3). This past summer, Purdue University created a community of scholars with a summer speaker series that connected their graduate students with mathematicians from across the country (page 5). As a jazz pianist, tennis player, and mathematician, Martene Fair provides an example how to navigate the graduate school journey (page 6). She notes that men-

toring was vital to her success. Fortunately, we have an *E-Mentoring Network* that assists with how to deal with the twists and turns of life (page 7). The Infinite Possibilities Conference 2012 will promote mentoring to empower women to pursue and continue in mathematics (page 8). Recently, Arlie Petters, Carlos Castillo-Chavez, and Freeman Hrabowski have been recognized for their great works in creating academic programs for young people in science and mathematics (page 8).

When I ask my daughter who her mentor is, she turns her head to the side, cracks half of a smile, and points to me. I am reminded of my responsibility to keep education relevant to her, as well as other young people. This issue has many inspiring stories which exhibit how young people have been connected effectively with mathematics so that they, with great confidence, “*Math So Hard*” and become an indomitable force in the mathematical community.

Enjoy!



Talitha Washington and her daughter, Thea



# West Point Mathematics: A Blend of Excellence

Donald Outing

The Department of Mathematical Sciences at the United States Military Academy (USMA) in West Point, New York has changed dramatically over the past fourteen years. When I arrived at West Point in 1997, there were only two African Americans teaching in the department, and none of us had PhDs. Now the department is proud to have *six African Americans with PhDs!* Few, if any, mathematics departments in the country can make this claim.

Eleven years have passed since Tasha Inniss, Kimberly Weems and Sherry Scott received national attention for graduating with PhDs in mathematics from the University of Maryland. This event was significant because, at that time, it was believed that the University of Maryland was the first to award doctorates in mathematics to three African American women at the same time. According to data from the National Science Foundation (NSF), there were only twelve PhDs awarded to African Americans in mathematics in the entire United States in 1998-99, and fourteen in 1999-2000. Today, the percentage of African Americans with doctorates in mathematics and related fields is still small in comparison to the percentage of African Americans in the United States population.

To best appreciate the significance of the Department of Mathematical Sciences' metamorphosis, one must understand the anatomy of the department. It consists of approximately seventy-five percent military and twenty-five percent civilian faculty members hired in accordance with Title 10 United States Code.

Each year a board of senior faculty members within the department selects fifteen to twenty-five officers who have served seven or eight years in the Army and sends them to graduate school to earn a Masters degree. They then join the department for three years (we call them "rotators") and then return to the Army where they apply their mathematical skills in other jobs. Some of these rotators are later selected to return to graduate school to earn a PhD and then return to the department for another tour (we call them "senior rotators").

A few of the senior rotators are chosen to be Academy Professors (AP) and they are expected to spend the remainder of their military career in the department. Two of these APs, the Department Head and his Deputy, become Professor United States Military Academy (PUSMA). PUSMAs can serve in the department until age sixty-four, but in recent years, none have.

Five of the civilian faculty positions are held by experienced mathematicians who provide an essential element of faculty excellence and diversity (we call them senior civilian faculty). These Full Professors are not tenured, but have long-term contracts. Also, at the senior level there is a Visiting Scientist from the Army Research La-

boratory (ARL) and (at times) a Visiting Professor. The remainder of the civilian faculty consists of young civilians who have recently received their PhDs. These "junior civilian faculty" are of two types: some are Davies Fellows and others are Title 10 Assistant Professors. Davies Fellows teach one semester and spend the other semester and the summer on a research project in conjunction with scientist at the ARL or some other government laboratory. Davies Fellowships are administered by the National Research Council (NRC) and sponsored by West Point and ARL.

The Title 10 Assistant Professors teach full time. Both the Davies Fellows and Title 10 Assistant Professor have three-year non-renewable contracts. These position allow the department to have a continuous flow of young civilians in the department.

This composition provides a "blend of excellence" which creates an environment that breeds and sustains diversity. The department has successfully hired underrepresented minorities at almost all levels. Although the focus of this article is on the inclusion of African Americans in the department, it should be mentioned that the department has done very well in incorporating women into the faculty as well.

During my brief tenure in the department, I have had the



privilege of observing many milestone events at West Point. In many cases, I was fortunate to have played a direct role in making many of these events come to fruition. Here are some of the highlights of those past fourteen years.

- In 1991, Dr. Don Small becomes West Point's first stabilized senior civilian faculty hired in accordance with Title 10 United States Code.
- In 1998, Small is recognized by a Consortium of Historically Black Colleges and Universities (HBCU) for his efforts in reforming College Algebra programs at HBCUs.
- In 1999, Colonel (COL) Andre Sayles (USMA 1973) became the first African American PUSMA as the Head of the Department of Electrical Engineering and Computer Science.
- In 2001, Dr. Jeffrey Fleming became the first African American with a PhD to teach in the Department of Mathematical Sciences. Fleming was hired under the departments Title 10 Assistant Professor Program.
- In 2003, Lieutenant Colonel (LTC) Archie Wilmer became the first African American officer to return to the Department of Mathematical Sciences with a PhD. According to NSF data, there were only sixteen PhDs awarded to African Americans in mathematics in 2002-2003. Wilmer retired in 2010.
- In 2004, LTC Donald Outing became the second African American officer to return to the department with a PhD. According to NSF data, there were only ten PhDs awarded to African Americans in mathematics in 2003-2004. Outing also became the department's first Academic Professor.
- In 2004, Dr. Dennis Davenport assumed the Visiting Professor chair in the department.
- In 2006, Outing became the first African American to be appointed an Academy Professor in the Department of Mathematical Sciences.
- In December, 2006, Major (MAJ) Anthony Johnson became the third African American officer with a PhD to teach in the department.
- In August, 2007, Johnson became the second African American Academy Professor in the department.
- In 2007, Dr. Calandra Tate became the first African American ARL Visiting Scientist.
- In 2009, Dr. Michelle Craddock became the second African American faculty member and the first African American female Title 10 Assistant Professor.
- In August, 2009, Outing and Wilmer were promoted to Associate Professor.
- In 2010, Dr. Patrice Benson became the third African American faculty member and the second African American female Title 10 Assistant Professor.
- In 2010, COL Bernard Banks (USMA 1987) became the second African American PUSMA as the Deputy

Head of the Department of Behavioral Sciences and Leadership.

- In 2011, Craddock and Benson converted to Davies Fellows.
- In 2011, Dr. James Gatewood and Dr. Kendall Williams became the fourth and fifth African American Title 10 Assistant Professors. They set the mark for the most African American Title 10s hired at one time and raised the number of African Americans with PhDs in the department to six.



LTC Donald Outing

This extraordinary achievement did not happen by chance. It was the result of a sustained effort over a long period of time to diversify what was once a very homogeneous department. This effort was initiated by past department heads (Brigadier Generals Frank Giordano, Chris Arney, and Gary Krahn) and sustained by the current department head Colonel Michael Phillips.

Naturally, these department heads benefitted from the sage advice of many of its senior civilian faculty members. Senior Faculty such as Professors Lida Barrett, Don Small, Fred Rickey, and Brian Winkel played key roles in diversifying the department. Additionally, the Department of Mathematical Sciences greatly profited from its affiliation with the National Association of Mathematicians (NAM). Thanks to the initiatives of Don Small and Dennis Davenport, the department became affiliated formally with NAM in 2004.

Prior to our association with NAM, our department struggled to get the word out in the African American mathematical community about the opportunities to teach in the department at West Point. Today, as a result of efforts by numerous individuals, we enjoy a healthy pool of highly qualified candidates from which to select. Over the past few years, the department has received numerous referrals from past and present NAM members and board members. As a result of those referrals, the department has hired five Title 10 Assistant Professors, four of whom are presently teaching in the department.

In the words of Dr. David S. C. Chu, former Undersecretary of Defense for Personnel and Readiness, "The armed forces pride themselves on being leaders in diversity. In addition to providing equality, diversity gives the military more strength by ensuring that it reflects the very same American population it's called to defend." To this end, the Department of Mathematical Sciences has made great progress in promoting diversity among its faculty.

As previously mentioned, the department has done a



good job in incorporating women among its faculty as well. Additionally, it should be noted that the Department of Mathematical Sciences has made a deliberate effort to include Hispanic Americans on its faculty as well, and has enjoyed some recent success in this endeavor.

A few years ago, Professor V. Fredrick Rickey (now an emeritus senior civilian faculty member) and I submitted our department demographic data to Dr. Shirley Malcolm, Director of Education and Human Resources at the American Association for the Advancement of Science (AAAS), for comment. Malcolm replied with,

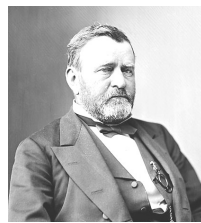
*“One of the morals of this story is, when you value diversity, you can make it happen!”*

Army Mathematics truly values diversity.

LTC Donald Outing is an Academy and Associate Professor in the Department of Mathematical Sciences at the United States Military Academy at West Point. He is a lifetime member of NAM and serves on the NAM Board of Directors as the Majority Institution Member. He can be

reached at [donald.outing@usma.edu](mailto:donald.outing@usma.edu).

The views expressed herein are those of the author and do not reflect the position of the United States Military Academy, the Department of the Army, or the Department of Defense.



### Editor's Note

Before Ulysses S. Grant became the 18th President of the United States, he applied to the Department of Mathematical Sciences at the United States Military Academy several times. Even though he graduated from the Academy in 1843, he was not able to secure a position. As President, he led a gallant effort for the civil rights of freed slaves. Thus, even though Herman Cain (who was an undergraduate mathematics major at Morehouse College) may object, perhaps running for President is not as difficult as securing a teaching position at the Academy.

## AGEP Prime: Building a Community of Scholars

Dr. Edray Herber Goins



During the summer of 2011, Dr. Edray Goins, Associate Professor of Mathematics at Purdue University, held a lecture series, *The Journey from Undergraduate to The Professoriate*, that featured minority faculty from around the country. Goins received a grant

through the Midwest Crossroads Alliance for Graduate Education and the Professoriate (AGEP) to form a “community of scholars” in the mathematical sciences among the graduate students at Purdue.

AGEP PRiME (Midwest Crossroads Alliance for Graduate Education and the Professoriate: Purdue Research in Mathematics Experience) consisted of several components: Recruiting for future graduate students, Retention of the current graduate students, and Enrichment of the campus as a whole.

“We have many African-American graduate students at Purdue who are involved in some aspect of the underrepresented mathematical community,” Goins stated. “It’s a shame that the only time we see each other is at Blackwell-Tapia, CAARMS, Field of Dreams, Infinite Possibilities, or USTARS. I designed AGEP PRiME with them in mind, so that those of us in mathematics, statistics, and mathematics education could form a more cohesive group.”

On Fridays throughout the summer, Goins brought five

college professors in the mathematical sciences to tour the campus, conduct a 15-minute video interview, give a 60-minute research presentation, and have an informal dinner with graduate students. Many of the invited guests teach at colleges with significant minority populations.

### Invited Guests

Dr. Talitha Washington was the first invited guest who gave a talk entitled “From Indiana to Indiana: A Closed Mathematical Loop.” She is a Visiting Associate Professor Howard University and is on-leave from the University of Evansville. In August of 2001, she earned her PhD in mathematics from the University of Connecticut. Her research interests concern applications of differential equations to biology and materials engineering.



Talitha Washington

Dr. Ulrica Wilson gave a talk entitled “Division: In an Algebra, In a Career, and In Research Mathematics.” She is an Assistant Professor of Mathematics at Morehouse College. In June of 2004, she earned her PhD in mathematics from Emory University. Her research interests concern non-commutative ring theory.



Ulrica Wilson

**AGEP  
PRiME**





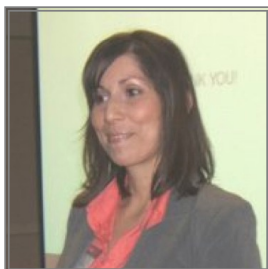
Josef Sifuentes

Dr. Josef Sifuentes gave a talk entitled “Why I Became a Mathematician: A Tale of Art, Heavy Metal, Eigenvalues and Bad Ass Muscle Cars.” He is a research scientist at Courant Institute for the Mathematical Sciences. In April of 2010, he earned his PhD in applied mathematics from Rice University. His research interests concern numerical analysis and computational wave scattering.



Emille Davie Lawrence

Dr. Emille Davie Lawrence gave a talk entitled “Reaching Your Limit: Advice on Being Within an  $\epsilon$ -Neighborhood of Your Goals (for any  $\epsilon$ ).” She is an Assistant Professor of Mathematics at the California State University in Pomona who is on leave at San Francisco State University. In August of 2007, she earned her PhD in mathematics from the University of Georgia. Her research interests concern the intersection of topology and algebra in general, and braid groups and right-angled Artin groups in particular.



Alejandra Alvarado

Dr. Alejandra Alvarado gave a talk entitled “My Adventures with

Elliptic Curves.” She is a Postdoctoral Fellow in Mathematics at Purdue University. In May of 2009, she earned her PhD in mathematics from Arizona State University. Her research interests concern arithmetic progressions in the coordinates of rational points elliptic curves, elliptic curve cryptography, and K-12 mathematics education.

### Promoting Mathematics

Even while building a community within the current student population, Goins would like to increase the numbers of underrepresented graduate students in the mathematical sciences at Purdue. He made several reciting trips, including the Summer Undergraduate Mathematical Sciences Research Institute (SUMSRI) at Miami University, visiting with two graduate students from Purdue and participating on their annual graduate panel; the SACNAS National Conference in San Jose, California, working at the exhibition booth; the Young Mathematician's Conference at the Ohio State University, participating on their graduate panel; and NAM's MATHFest at Dillard University, bringing an undergraduate and providing literature about the department.

Goins plans to develop a website that features the interviews of the guests in the hopes that more students will be inspired to pursue and complete advanced degrees in the mathematical sciences.

*Edray Goins is an Associate Professor of Mathematics at Purdue University and a lifetime member of NAM. He may be reached at [ehgoins@mac.com](mailto:ehgoins@mac.com).*

## Spotlight on a Mathematician: Martene Fair



Dr. Martene Fair went from being an instrumental jazz pianist to university tennis player to mathematician.

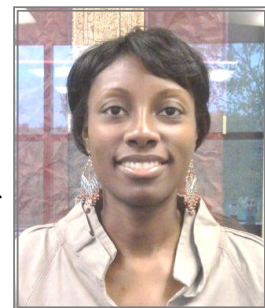
Fair was born and raised in Milwaukee, Wisconsin. She attended Milwaukee High School of the Arts (MHSA) where she majored in instrumental jazz piano. At MHSA, each student selects a major in the arts, and then completes a rigorous curriculum in that selected major. After graduating in May of 2001, she matriculated into Tennessee State University (TSU) where chose to major in English; she had planned on becoming a lawyer. However, after her first semester of college, she realized quickly her affinity for mathematics, and changed her major to mathematics education. Throughout her days at TSU, one could find her on the tennis team competing in dual matches.

After her junior year at TSU, she participated in a summer internship at the National Science Foundation (NSF) which changed her view of science and mathematics. Being surrounded by people (especially minorities) who had their doctorate degrees in the STEM disciplines, Fair was motivated to pursue a doctorate in mathematics.

At the NSF, her mentor, a PhD in chemistry, informed her about several graduate fellowships. Upon returning to TSU, Fair compiled her applications for fellowships and graduate schools. She also applied for funding to visit different graduate programs. After participating in numerous “preview weekends” at different graduate programs, she felt most comfortable with creating her mathematical home at North Carolina State University (NCSU).

As a result of her arduous efforts, she received a National Physical Science Consortium (NPSC) Fellowship which covered her tuition, fees, and health insurance, and paid her a yearly stipend. With her fellowship in hand, she decided to go to NCSU to pursue a doctorate in mathematics.

First she wanted to ensure that she had sufficient preparation that would guarantee success in graduate school; she chose to participate in the Enhancing Diversity in Graduate Education (EDGE) program. She acquired the highly acclaimed “EDGE Factor” through participating





Dr. Martene Friar receives an award for her achievements from Dr. Rhonda Huges at the Enhancing Diversity in Graduate Education (EDGE) 2011 summer program

in the strong network of women who were either pursuing or have completed PhDs in mathematics. These relationships created a new mathematical world where she gained the necessary information and encouragement to succeed.

Fair led an active graduate student life at NSCU. She participated in a summer research experience, worked as a teaching assistant, served as an officer in the Mathematics Graduate Student Association, participated in professional development workshops, and mentored middle school students. During the summers, the NPSC fellowship provided her the opportunity to participate in two paid internships at the National Security Agency (NSA). Through working with other mathematicians in the agency, she began to appreciate the diversity and applicability of mathematics.

Fair is now back at her undergraduate home, Tennessee State University, and is an Assistant Professor of Mathematics. Her research interests lie in control theory — specifically fault detection in systems.

Throughout her academic career she networked with professionals, worked with other graduate students, and gave back to the community. At each step of the way, Fair gained valuable “words of wisdom” from mentors at TSU, NSF, EDGE, NCSU, and NSA, just to name a few. Here are some of those “words of wisdom” which helped her surmount demanding graduate studies.

- Stay in tune with yourself and your spirituality.
- Know your strengths and weaknesses and be willing to do what is necessary to succeed.
- Form study groups.
- Get to know other graduate students by participating in functions and activities planned for the department

and or the university.

- Seek advice from older graduate students about courses, qualifiers, advisors, etc.
- Network.
- Make sure you have a life and something you do outside of graduate school (such as sports, community service, church, and social groups).
- Stay positive and always maintain balance in your life. Do not get too high or too low as you go through the process.
- Stay connected to your mentors — including the ones you met during college — and keep them abreast of your progress as well as career goals.
- Maintain good relationships with your family and friends.
- Be resourceful.
- Take breaks when possible.

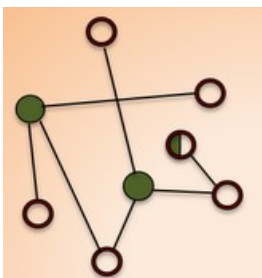
Through her many talents and abilities, Fair hopes to continue inspiring others to do everything with a spirit of excellence and willingness, to meet the challenges of life, and to succeed in endeavors — whatever they may be.

*Martene Friar is an Assistant Professor of Mathematics at Tennessee State University. She may be reached at [mfair@tnstate.edu](mailto:mfair@tnstate.edu).*

### Editor's Note

The **2012 EDGE Summer Program** will be held **June 4-29** on the campus of Pomona College, Claremont, CA, with Dr. Talithia Williams (Harvey Mudd College) as the local coordinator. Enhancing Diversity in Graduate Education (EDGE) is a summer workshop and on-going mentoring program designed to strengthen the ability of women students to successfully complete graduate programs in the mathematical sciences, with particular inclusion of women from underrepresented groups. The summer workshop provides courses in analysis and algebra, a topical minicourse, guest lecturers, and tiered mentoring. EDGE participants also benefit from follow-up mentoring and networking opportunities throughout the academic year.

## E-Mentoring Network in the Mathematical Sciences



This network addresses relevant questions that students, postdoctoral researchers and junior faculty may have regarding their own advancement in mathematics. The network was started by Dr. Ricardo Cortez of Tulane University as an effort to support and assist those from underrepresented groups who may not

have sufficient mentoring at their current institution.

Their first issue was featured on October of 2011. The topics addressed were kept relevant by requesting suggestions from readers. Please send mentoring topics and inquiries to [mathmentoringnetwork@gmail.com](mailto:mathmentoringnetwork@gmail.com).

For more information, resources, older issues and polls, visit

<https://sites.google.com/site/mathmentoringnetwork/>



# Infinite Possibilities Conference 2012

Lily Khadjavi and Raegan Higgins



The Infinite Possibilities Conference (IPC 2012) is coming to the University of Maryland, Baltimore County (UMBC) in March. This unique gathering is a national conference designed to promote, educate, encourage, and support women of color interested in the mathematical sciences. IPC was founded by a group of Spelman alumnae who were inspired by their undergraduate experience and by their mentor, Dr. Etta Falconer.

The conference agenda includes keynote speakers, research talks and poster sessions, and panel discussions ranging from advice for graduate studies to navigating paths beyond the degree. Before IPC, there will be a short course in mathematical biology funded by the Mathematical Sciences Research Institute (MSRI) collaborative diversity program, organized by the Institute for Mathematics and its Applications (IMA). In addition, a special component for high school attendees is planned for the Saturday of the conference.

A conference highlight is the Etta Z. Falconer Banquet. The late Falconer devoted 37 years to teaching mathematics at Spelman College and improving the quali-

ty of mathematics and science education at the college. During the banquet, the Etta Z. Falconer Award for Mentoring and Commitment to Diversity will be presented to an individual who has demonstrated a professional commitment to mentoring and increasing diversity in the sciences, and in particular the mathematical sciences. Past awardees are Drs. Janis Oldham (2005), Sylvia Bozeman (2007), and Ivelisse Rubio (2010).

The Infinite Possibilities Conference is a project of Building Diversity in Science, hosted by UMBC, with support from the National Science Foundation and the National Security Agency. There are travel funds available to graduate and undergraduate students to attend the conference. See [www.ipcmath.org](http://www.ipcmath.org) for more details, including registration and travel support.

*Lily Khadjavi is an Associate Professor of Mathematics at Loyola Marymount University. Raegan Higgins is an Assistant Professor Mathematics at Texas Tech University. Their email addresses are [lkhadjavi@lmu.edu](mailto:lkhadjavi@lmu.edu) and [raegan.higgins@ttu.edu](mailto:raegan.higgins@ttu.edu), respectively.*

## In the News...



Ronald Buckmire

**Dr. Ronald Buckmire**, Associate Professor of Mathematics at Occidental College, is spending his 2011-12 academic year visiting the National Science Foundation as a “rotator” in the Division of Undergraduate Education in the Directorate of Education and Human Resources. In February, he received the 2011 LGBT Educator of the Year award from the National Organization of Gay and Lesbian Scientists and Technical Professionals in Washington, DC.



From left to right: Nestor Mendez (Ambassador to the US of Belize), Arlie Petters, and Elizabeth A. Petters (Vice President of Finance and Operations, Petters Research Institute)

**Dr. Arlie Petters**, Professor of Mathematics, Physics, and Business Administration at Duke University, received the Caribbean American Heritage Award for Excellence in Science and Technology on November 11, 2011. He was the first Belizean to receive the award in its 18-year history.



Carlos Castillo-Chavez

President Obama named the Mathematical and Theoretical Biology Institute, Arizona State University, as a recipient of the 2011 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. This institute was founded by **Regents’ Professor Carlos Castillo-Chavez**, a mathematical epidemiologist, to increase the number of underrepresented U.S. populations in fields where mathematical, computational and modeling skills play a critical role.

University of Maryland Baltimore County **President Freeman Hrabowski** was featured on CBS’ “60 Minutes.” He is well-known for his innovative initiatives in science at mathematics at UMBC where 41 percent of the bachelor’s degrees were in science, engineering and math. In the interview, Hrabowski said, “I don’t care how smart you are, nothing takes the place of hard work.”

IPC 2012 will be held at UMBC (see above), and Hrabowski will give the address at the Falconer Banquet.

President Obama named the Mathematical and Theoretical Biology Institute, Arizona State University, as a recipient of the 2011 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. This institute was founded by **Regents’ Professor Carlos Castillo-Chavez**, a mathematical epidemiologist, to increase the number of underrepresented U.S. populations in fields where mathematical, computational and modeling skills play a critical role.



Freeman Hrabowski





# NAM at the 2012 Joint Mathematics Meetings

*Be sure to join us at the JMM 2012 in Boston!*



## Friday, January 6

**1:00 p.m. - 4:20 p.m.**

Room 101, Hynes

*Granville-Brown-Haynes Session of Presentations by Recent Doctoral Recipients in the Mathematical Sciences*

Presenters include Drs. Terrence Blackman (Medgar Evers College CUNY), Lois Simon (Howard University), Kendall Williams (United States Military Academy), Rhonda Ellis (Norfolk State University), Torina Lewis (Bethune-Cookman University), Charles Glover (University of Maryland), and Dennis Dean (Harvard Medical School).

**7:30 p.m.**

Constitution Ballroom B, 2nd Floor, Sheraton

*NAM Banquet and Cox-Talbot Invited Address*

Tickets for the banquet are US\$58 each, including tax and gratuity. The *Address* will be given after the dinner by Dr. Sylvia Bozeman (Spelman College). Her presentation is entitled "Creating Mathematical Scientists Among the Underrepresented."

## Saturday, January 7

**9:00 a.m. - 9:50 a.m.**

Room 101, Hynes

*Panel Discussion*

The panel discussion is entitled "Themes on the Undergraduate Preparation of Contemporary Mathematics Graduate Students."

**10:00 a.m. - 10:50 a.m.**

Room 101, Hynes

*Business Meeting*

This meeting is for all NAM members and those interested in membership. Reports on the organization will be presented as well as the recruitment of committee and Board members.

**1:00 p.m. - 1:50 p.m.**

Room 101, Hynes

*Claytor-Woodard Lecture*

The lecture will be given by Dr. Aderemi Kuku (Grambling State University). His presentation is entitled "Profinite (Continuous) Equivariant Higher Algebraic K-theory for the Action of Algebraic Groups."

## NAM Calendar



The **Joint Mathematics Meeting** will be held in Boston, Massachusetts on **January 4-7, 2012**. See above.

The **Statistical and Applied Mathematical Sciences Institute (SAMSI)** will offer a two-day **undergraduate workshop** on topics of current interest in statistics and applied mathematics on **February 24-26, 2012** in Research Triangle Park, North Carolina. Applications for funding for travel and lodging are due **January 27**. See: <http://www.samsi.info/workshop/undergraduate-workshop-february-24-25-2012>

The **2012 Infinite Possibilities Conference (IPC)** will be held **March 30-31** at the University of Maryland, Baltimore County (see page 8). They will also host a pre-conference workshop about "Applications of Mathematics to Biology" on **March 29**. Application deadline for student travel awards is **January 27**. See: <http://www.ipcmath.org/>



The **NAM Teaching and Faculty Research Conference** will be held at Morgan State University in Baltimore, Maryland in April of 2012. For more information, email Dr. Leon Woodson at [leon.woodson@morgan.edu](mailto:leon.woodson@morgan.edu)

The **Underrepresented Students in Topology and Algebra Research Symposium (USTARS)** will be held on **April 13-15, 2012** at the University of Iowa in Iowa City,

## Conferences & Workshops

Iowa. The keynote speaker is Dr. Federico Ardila of San Francisco State University. See: [www.mathalliance.org/ustars.asp](http://www.mathalliance.org/ustars.asp)



The **EDGE summer program** will be held **June 4-June 29, 2012** at Pomona College in Claremont, California, with local coordinator Dr. Talithia Williams. A stipend plus travel, room and board will be awarded to participants. The application deadline for the program is **February 27**. See: [www.edgeforwomen.org](http://www.edgeforwomen.org)

**MSRI-UP** summer undergraduate research program on "Enumerative Combinatorics" will be held **June 16 - July 29, 2012** at the Mathematical Sciences Research Institute (MSRI) in Berkeley, California. The on-site Director is Dr. Ricardo Cortez of Tulane University. See: <http://www.msri.org/web/msri/education/for-undergraduates>



The **Society for Industrial and Applied Mathematics Annual Meeting** will be held **July 9-13, 2012** in Minneapolis, Minnesota. The deadline for minisymposium proposals is **January 9**. See: <http://www.siam.org/meetings/an12/>

The **Society for Mathematical Biology Annual Meeting and Conference** will be held **July 25-28, 2012** in Knoxville, Tennessee. The deadline for minisymposium proposals is **January 31**. See: <http://nimbios.org/SMB2012/>



## Job Openings



Additional job openings may be found on the *NAM Newsletter* webpage at:

<http://nam-newsletter.org>

Advertisements should be submitted electronically to the editor at [nam\\_newsletter@yahoo.com](mailto:nam_newsletter@yahoo.com). Any format is accepted. Details on deadlines and the cost to advertise may be found on the website.

### American University

The College of Arts and Sciences at American University (Washington, DC) invites applications for a full-time, **tenure-track** position, beginning in Fall 2012, in **applied mathematics** with a focus in computational life sciences, probability, image and signal processing, or applied cryptography.

The rank of this position is Assistant Professor or Associate Professor. In the latter case, depending on qualifications, the appointee to this position may be recommended for tenure at the time of hiring. Applicants must have a PhD in a relevant discipline. Teaching and post-doctoral experience are preferred. Responsibilities include: teaching and curriculum development; establishing an internationally recognized research program, preferably one that can involve undergraduate research participation; strengthening connections to other departments and programs across campus; and service to the department and the wider university.

The College of Arts and Sciences offers a variety of degrees at the undergraduate, masters, and doctoral levels.

#### *Tenure-track Position in Applied Mathematics*

For more information about our programs, visit [www.american.edu/cas](http://www.american.edu/cas).

Applicants should submit a cover letter, curriculum vitae, teaching statement, and research statement, and arrange for at least three letters of recommendation to be sent directly to the search committee. At least one of the letters must address the applicant's teaching credentials. Submissions of applications via [www.mathjobs.org](http://www.mathjobs.org) are preferred but email and paper applications will be accepted. In the later cases, materials should be sent to:

[lgreene@american.edu](mailto:lgreene@american.edu), or Applied Mathematics Search Committee, Department of Mathematics and Statistics, American University, Washington, DC 20016-8050. Applications received by **December 1, 2011** will receive full consideration. American University is an EEO/AA institution, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply. American University offers employee benefits to same-sex domestic partners of employees and prohibits discrimination on the basis of sexual orientation/preference and gender identity/expression.

### American University

The College of Arts and Sciences at American University (Washington, DC) invites applications for a full-time, **tenure-track**, Assistant Professor position, beginning in August 2012, in **computational neuroscience** (broadly defined, including but not limited to neural networks, simulation, image processing, and bio-informatics). The appointee's tenure home and departmental affiliation will depend on his or her research background. Applicants must have a PhD in a relevant discipline. Teaching and post-doctoral experience are preferred. Responsibilities include: teaching and curriculum development; establishing an internationally recognized research program, preferably one that can involve undergraduate research participation; strengthening connections to neurosciences across campus; and service to the appointee's home department and the wider university.

American University has made other recent hires in neuroscience, and benefits from proximity to other scientific institutions in the Washington area. (For example, NIH is three metro stops from the AU campus.) The College of Arts and Sciences offers a variety of degrees at the

#### *Tenure-track Position in Computational Neuroscience*

undergraduate, masters, and doctoral levels. For more information about our programs, visit [www.american.edu/cas/](http://www.american.edu/cas/).

Applicants should submit a cover letter, curriculum vitae, teaching statement, and research statement, and applicants must arrange for three letters of recommendation to be sent directly to the search committee. Materials can be submitted online (highly preferred) at <http://academicjobsonline.org/ajo>, or via email to [CompNeuroSearch@american.edu](mailto:CompNeuroSearch@american.edu), or in hard copy to Computational Neuroscience Search Committee, Department of Mathematics and Statistics, American University, Washington, DC 20016-8050. Applications received by **December 10, 2011** will receive full consideration. American University is an EEO/AA institution, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply. American University offers employee benefits to same-sex domestic partners of employees and prohibits discrimination on the basis of sexual orientation/preference and gender identity/expression.



## Austin Peay State University

The Department of Mathematics and Statistics at Austin Peay State University invites applications to fill a **tenure-track** position in **Mathematics Education** beginning in August 2012. Austin Peay State University is a regional university with a strong tradition of teacher preparation and community involvement. Mathematics Education faculty work closely with the College of Education, the Certification Office, and teachers in the local schools. Rank and salary are commensurate with education and experience. A

### *Tenure-track Position in Mathematics Education*

master's degree in Mathematics or related area with at least 18 semester hours earned in the discipline is required for Instructor rank. A terminal degree in mathematics education (Ph.D. or Ed.D.) is required for the rank of Assistant Professor. Applications taken online only at <https://jobs.tbr.edu>.

Austin Peay State University, a TBR institution, is an AA/EEO employer and does not discriminate on the basis of race, color, national origin, sex, disability or age.

## Brandeis University

The department of mathematics at Brandeis University invites applications for a **tenure-track assistant professorship** and a **three-year teaching position**, with the potential for renewal, both beginning in fall 2012.

For the tenure-track position, candidates must have a Ph.D., demonstrate potential for excellence in research, and display a commitment to undergraduate and graduate teaching. Applicants should submit an AMS coversheet, a curriculum vita, and four letters of recommendation, one of which addresses teaching effectiveness.

For the three-year teaching position, a Ph.D. in mathematics and demonstrated excellence in teaching are required. The successful candidate will teach undergraduate mathematics courses, possibly ranging from precalculus to

### *Multiple Positions*

the advanced undergraduate level. The position may also involve supervising graduate students teaching precalculus and calculus. The teaching load is five courses per year. Applications should submit an AMS coversheet, a curriculum vita, a teaching statement, and at least two letters of recommendation that discuss the applicant's teaching skills. A research statement and letters addressing research are optional.

Applications for both positions should be submitted through <http://www.mathjobs.org>

Brandeis University is an equal opportunity employer, committed to building a culturally diverse intellectual community, and strongly encourages applications from women and minority candidates.

## Gettysburg College

Gettysburg College invites applications for a **tenure-track** position in mathematics at the rank of Assistant Professor beginning August 2012. Preference will be given to applicants whose research interests are in **Combinatorics, Algebra, Topology**, or related fields. Applicants must have a Ph.D. in one of the mathematical sciences or expect to complete all requirements for the degree by September 2012. A record of excellent and innovative teaching, a clear promise of outstanding achievements in research, and a desire for a career in a liberal arts environment are essential. A successful candidate will have the opportunity to shape the mathematics program of an energetic department, to teach a broad range of topics in undergraduate mathematics, and to involve students in a variety of mathematical activities outside the classroom. Faculty at Gettysburg College are expected to teach five courses per year, mentor and advise students, and maintain an active and productive scholarly program. The College is prepared to assist newly appointed faculty members in establishing a research program; this assistance may include generous start-up funds, funding for professional travel, and a paid pre-tenure leave.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore/Washington metropolitan area. It is consistently ranked in

### *Tenure-track Position*

the top 50 liberal arts colleges in the nation. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of over 2,600 students. Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, age, and disability. You may learn more about the College and the Department through the website: <http://www.gettysburg.edu/academics/math/>.

Please submit a letter of application, a curriculum vitae, a brief description of your teaching methods and objectives, and a summary of your research goals online at <http://www.mathjobs.org>. Applications should also include three letters of recommendation addressing teaching effectiveness and research potential. Your letter of application should explicitly address your interest in our department, your plans to contribute to our program, and the ways in which Gettysburg can help you to meet your professional goals. Completed applications received by **November 30, 2011** will receive full consideration.



## Loyola University Maryland

*Tenure-track Position*

Applications are invited for a full time entry-level, **tenure-track**, position beginning in Fall 2012. The department seeks a mathematician with expertise in **Combinatorics or Graph Theory**. Previous full-time teaching experience in a college/university setting and ability to guide undergraduate students for research are preferred. Candidates should have a Ph.D. in mathematics at the time of the appointment and demonstrate the potential for excellence in teaching and either a proven research record or research potential. Our homepage, <http://loyola.edu/academics/math/>, provides further information.

Loyola University Maryland is a medium-sized, selective, Jesuit institution that emphasizes teaching and the liberal arts and welcomes applicants from all backgrounds

who can contribute to our unique educational mission.

Loyola is an equal opportunity employer that seeks applications from women and members of minority groups. Apply at <http://careers.loyola.edu> and submit a resume, statement of research objectives, outline of teaching philosophy. Three letters of reference, at least one of which addresses the applicant's teaching ability, should be sent to Dr. Dipa Choudhury, Chair, Mathematical Sciences Department, Loyola University Maryland, 4501 North Charles Street, Baltimore, MD 21210-2699.

Priority will be given to applications received by **December 1, 2011**.

**Apply Here:** <http://www.Click2apply.net/hckrbg5>

## Mathematical Biosciences Institute (MBI)

*Summer Graduate Workshop*

**Joint 2012 MBI-NIMBioS-CAMBAM Summer Graduate Workshop Stochastics Applied to Biological Systems (June 18-29, 2012)**

This Workshop will have instructors from across North America whose research expertise is stochastic modeling in biological systems. Some of the topics to be covered include Markov chains, birth and death processes, branching processes, Brownian motion and diffusion processes, stochastic differential equations, and agent-based models. Applications of stochastic processes will come from epidemiology, ecology, phylogenetics, microbiology, evolutionary biology, and genetics. The workshop will consist of lec-

tures on mathematical and statistical methods for stochastic processes in biological systems and daily computer and analysis activities. In addition, each student will work on a research project over the duration of the program with a team of four or five participants.

Members of the organizing committee are: Linda Allen (Texas Tech), Laura Kubatko (Ohio State University), Suzanne Lenhart (University of Tennessee, Knoxville); Libby Marschall (Ohio State University), and Lea Popovic (Concordia University).

For a complete description and application, click here: <http://www.mbi.osu.edu/eduprograms/graduate2012.html>

## Mathematical Biosciences Institute (MBI)

*Undergraduate Summer Research*

**2012 MBI Undergraduate Summer Research Program (May 29 - June 8, 2012)**

The goal of this MBI NSF-funded program is to introduce students to exciting new areas of mathematical biology, to involve them in collaborative research with their peers and faculty mentors, and to increase their interest in mathematical biology. The program consists of three parts – each including a mix of educational and social experiences:

- A high quality two-week program at MBI (at Ohio State) designed to introduce students to a variety of areas in mathematical biology.
- A personalized six-to-eight week research experience (at one of the seven partner universities) that allows students to delve in depth in a particular topic.
- A one-week conference at MBI featuring student reports on their projects.

For a complete description and application, click here: <http://www.mbi.osu.edu/eduprograms/undergrad2012.html>

## Mathematical Biosciences Institute (MBI)

*Problem-Solving Workshop*

**MBI BioSciences Problem-Solving Workshop (PSW@MBI) (July 16-20, 2012)**

PSW@MBI is a week-long workshop where participating mathematical modelers tackle questions proposed by life science researchers. Similar workshops have provided fresh perspectives and new ideas to proposed questions and established new interdisciplinary collaborations between theoreticians and life scientists.

The workshop gives the opportunity to practitioners and researchers in medicine and the biosciences who present problems to exploit the expertise of applied mathematical faculty, postdoctoral fellows, and graduate students in working toward solutions to their problems.

For a complete description and application, click here:

<http://www.mbi.osu.edu/2012/stgrdescription.html>



## Mathematical Biosciences Institute (MBI)

*Postdoctoral Positions*

**Mathematical Biosciences Institute (MBI) is accepting applications for Postdoctoral Fellows to start September 2012.**

MBI Postdoctoral Fellows are immersed in the topics of the MBI emphasis year programs (see <http://mbi.osu.edu>). Postdoctoral Fellows engage in a three-year integrated program of tutorials, working seminars or journal clubs, and workshops, and in interactions with their mathematical and bioscience mentors. These activities are geared toward providing the tools to pursue an independent research program with an emphasis on collaborative research in the mathematical biosciences. MBI facilitated

activities for Postdoctoral Fellows are tailored to the needs of each early career scientist.

### Applying for a Postdoctoral Fellowship

- Applications for an MBI Postdoctoral Fellowship are to be submitted online at <http://www.mathjobs.org/jobs/mbi>
- Applicants need to provide a curriculum vita, a research statement, and three letters of recommendation.
- For additional information please contact Rebecca Martin ([rebecca@mbi.osu.edu](mailto:rebecca@mbi.osu.edu) or 614-688-3519). Applications completed before **December 16, 2011** will receive full consideration.

## Mathematical Biosciences Institute (MBI)

*Early Career Awards*

**Mathematical Biosciences Institute (MBI) is accepting applications for Early Career Awards during the 2012-13 year on Mathematical Neuroscience.**

Early Career Awards enable recipients to be in residence at the Mathematical Biosciences Institute for stays of at least three months during the Emphasis Year Program. The 2012-13 Program is on Mathematical Neuroscience (see <http://mbi.osu.edu/2012/scientific2012.html>). Awardees will engage in a workshops tied to the scientific theme and are expected to interact with local and visiting researchers.

Early Career Awards are aimed at non-tenured scientists who currently have continuing employment and who hold a doctorate in any of the mathematical, statistical and computational sciences, or in any of the biological, medical, and related sciences.

An Early Career Award will be for a maximum of \$7,000 per month of residency and for a maximum of nine

months during the academic year, the award may be used for salary and benefits, teaching buyouts, and/or local expenses.

### Applying for an Early Career Award

- Applications completed before **December 16, 2011** will receive full consideration. The applicant should state the period that he or she would plan to be in residence.
- Applications are to be submitted online at <http://www.mathjobs.org/jobs/mbi>.
- Applicants need to provide a curriculum vita, a research statement, and three letters of recommendation. One of these letters should be from the department chair of the applicant's home institution; the chair's letter should approve of the proposed financial arrangements for the candidate's stay at MBI.

For additional information please contact Rebecca Martin ([rebecca@mbi.osu.edu](mailto:rebecca@mbi.osu.edu) or 614-688-3519).

## University of Massachusetts Boston

*Tenure-track Position*

The Department of Mathematics at the University of Massachusetts Boston invites applications for a **tenure-track Assistant Professor**, beginning September 1, 2012. Special consideration will be given to applicants with research interests in **geometry** (broadly defined: differential, algebraic, symplectic, discrete), partial differential equations, or combinatorics.

Located on Boston harbor, the University of Massachusetts Boston offers undergraduate and graduate programs in almost 90 fields of study. It serves a diverse population of nearly 16,000 students and is nationally recognized as a model of excellence for urban universities. Faculty have many opportunities for interdisciplinary research and collaboration, e.g., in the physical, biological and computational sciences, as well the Environmental, Earth and Ocean Sciences Department.

**Qualifications:** Candidates must possess a Ph.D. in Mathematics or Statistics. The successful candidate will

have an active research program, a commitment to excellence in teaching, and the capacity to contribute to departmental and college service, including the development of a graduate program. A teaching load reduction to root a research program will be provided. For more information see [www.math.umb.edu](http://www.math.umb.edu).

To apply, send cover letter, curriculum vitae, completed American Math Society cover sheet, brief statement of current research plans, brief statement on teaching, and three letters of recommendation (at least one of which should address the candidate's teaching). Documentation should be submitted through [www.mathjobs.org](http://www.mathjobs.org). Applications submitted by **December 15, 2011** will receive full consideration.

UMass Boston is an Affirmative Action, Equal Opportunity, Title IX employer and strongly encourages women, members of all ethnic groups, and people with disabilities to apply.



## College of Lake County

*Instructor Positions*

### Mathematics Instructor (2 positions)

#### Faculty Position, Full-Time Tenure Track, August 2012

*Teach at a college whose vision matches yours.* Responsibilities include teaching a variety of mathematics courses from arithmetic through differential equations, including developmental, technical, and university-parallel mathematics. Apply online at [jobs.clcillinois.edu](http://jobs.clcillinois.edu) through 1/6/2012. The College of Lake County is known for academic excellence, strong student support services and cul-

tural and community leadership. Located halfway between Chicago and Milwaukee in an area with over 75 inland lakes, it serves a 442-square-mile district with a population of 713,000 residents—the third largest population in the Illinois community college system. Accredited by the Higher Learning Commission and a member of the North Central Association, the college has a diverse student body of more than 17,000. See: [www.clcillinois.edu](http://www.clcillinois.edu) EOE/AA/M/F/D/V

## Mercer University

*Tenure-track Position*

The Department of Mathematics at Mercer University invites applications for **tenure-track** Assistant Professor of Mathematics. A Ph.D. in mathematics or statistics from an accredited university/college is required. The position begins in August 2012 and is open to all applicants with specialties in any area of the mathematical sciences, but extra consideration will be given to candidates with a background in **statistics** or **applied mathematics**.

Duties include teaching approximately 21 semester hours of courses per year plus departmental duties as assigned by the Chair and college duties as assigned by the Dean. The successful candidate will show potential for excellence in teaching mathematics at a liberal arts college, show potential for ongoing scholarship, and demonstrate an ability to contribute to the development of programs in the department (e.g., curriculum development and undergraduate research). A lively interest in teaching interdisciplinary courses outside of the department will be considered a plus

in evaluating candidates.

Apply online at [www.mercerjobs.com](http://www.mercerjobs.com). A complete application will include a letter of application, current vita, a statement of teaching philosophy, official transcripts of all graduate work, and three confidential letters of recommendation. Review of applications will begin **November 30, 2011**, and will continue until the position is filled. Departmental representatives will attend the Employment Center at the Joint Meetings in January.

Mercer University is a comprehensive institution of over 8,000 students enrolled in eleven colleges and schools. The College of Liberal Arts, the historic core of the University, is a selective, residential institution serving nearly 2,300 students and enrolling over 1,400 undergraduates. The University and College, which have a rich Baptist heritage, offer educational programs distinguished by their rigor and by their commitment to academic freedom. AA/EOE/ADA

## Pomona College

*Visiting Position*

Pomona College seeks applicants for a **three-year visiting position in pure or applied mathematics**. Submit applications online at [mathjobs.org](http://mathjobs.org) (<https://www.mathjobs.org/jobs/jobs/3221>). Application includes a letter of application, curriculum vitae, graduate transcripts, at least three letters of recommendation (at least one should evaluate teaching), a description, for the non-specialist, of research accomplishments and plans, and a

statement of teaching philosophy. We will fully consider applications completed by **February 14, 2012**.

Pomona College is a highly selective liberal arts college, near Los Angeles, with approximately 1,560 students (<http://www.pomona.edu>). Pomona College is an equal opportunity employer and especially invites applications from women and members of underrepresented groups.

## University of La Verne

*Tenure-track Position in Mathematics Education*

The College of Arts and Sciences of the University of La Verne invites applications for a **tenure-track assistant professor position in Mathematics Education** in the Department of Mathematics, Physics, and Computer Science, with the appointment beginning August, 2012. Ph.D. in mathematics is required (or awarded no later than August 15, 2012). Commitment to undergraduate teaching and evidence of scholarly activity is required. The successful can-

didate will be expected to collaborate with the University's Learning Enhancement Center and the College of Education and Organizational Leadership, and will work toward obtaining approval for a Subject Matter Program in Mathematics from the California Commission on Teacher Credentialing.

For more information and to apply, visit:  
<http://aptrkr.com/216894>



*Find more advertisements online!*

<http://nam-newsletter.org/advertisements.html>

## Syracuse University

The Department of Mathematics of Syracuse University anticipates filling one position in **topology or geometry** at the rank of **tenure-track Assistant Professor**, contingent on budgetary approval, beginning August 2012. Ph.D. in mathematics required. Candidates should have a record of strong accomplishment and potential in both research and teaching. Although preference will be given to candidates in topology or geometry, exceptional candidates in all areas will be considered. Preference will also be given to candidates whose research interests overlap and/or complement those of existing faculty. Areas of topology and geometry presently represented in the department include algebraic geometry, algebraic topology, geometric topology, and differential geometry. For more information see <http://math.syr.edu>.

### *Tenure-track Position in Topology or Geometry*

Applications should include a cover letter, CV, three letters of recommendation addressing research qualifications, and at least one letter of recommendation addressing teaching. All application materials should be submitted via MathJobs (<http://www.mathjobs.org/jobs>). Screening of candidates begins **November 15, 2011** and continues until the position is filled.

Candidates should also visit <https://www.sujobopps.com> to read the detailed faculty postings and submit a brief online faculty application with a CV in order to be considered.

Syracuse University is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.

## Syracuse University

The Department of Mathematics of Syracuse University anticipates filling one position in **combinatorics** at the rank of **tenure-track Assistant Professor**, contingent on budgetary approval, beginning August 2012. Ph.D. in mathematics required. Candidates should have a record of strong accomplishment and potential in both research and teaching. Although preference will be given to candidates in combinatorics, exceptional candidates in all areas will be considered. For more information see <http://math.syr.edu>.

Applications should include a cover letter, CV, three letters of recommendation addressing research qualifications, and at least one letter of recommendation addressing teaching.

### *Tenure-track Position in Combinatorics*

All application materials should be submitted via MathJobs (<http://www.mathjobs.org/jobs>). Screening of candidates begins **November 15, 2011** and continues until the position is filled.

Candidates should also visit <https://www.sujobopps.com> to read the detailed faculty postings and submit a brief online faculty application with a CV in order to be considered.

Syracuse University is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.

## The College of Wooster

**Tenure-Track Position.** Assistant Professor of Mathematics, beginning Fall 2012. Specialty or area of emphasis in **applied mathematics or statistics** is desired. A Ph.D is required. A typical teaching load would include teaching five courses per year and advising several senior Independent Study projects. Participation in the College's Interdisciplinary Programs, including First Year Seminar, is expected.

Submit applications online through [www.mathjobs.org](http://www.mathjobs.org) with a letter of application, a curriculum vitae, a statement of teaching philosophy, a research description, and at least three letters of recommendation addressing both teaching and research. Review of applications will begin **December 1, 2011**, and continue until the position is filled.

The College of Wooster is an independent college of

### *Tenure-track Position*

the liberal arts and sciences with a commitment to excellence in undergraduate education. The College values diversity, strives to attract qualified women and minority candidates, and encourages individuals belonging to these groups to apply. Wooster seeks to ensure diversity by its policy of employing persons without regard to age, sex, color, race, creed, religion, national origin, disability, veteran status, sexual orientation, gender identity and expression, or political affiliation.

The College of Wooster is an Equal Opportunity/Affirmative Action Employer. Employment is subject to federal laws requiring verification of identity and legal right to work in the United States as required by the Immigration Reform and Control Act. Drug-free workplace.



## University of California, Merced

With the goal of establishing a preeminent program in Applied mathematics (<http://appliedmath.ucmerced.edu>), the School of Natural Sciences at University of California, Merced (<http://naturalsciences.ucmerced.edu>) invites applications for a faculty position in the broad area of **applied mathematics** at the rank of **Assistant Professor** (tenure-track), starting July 1, 2012.

We seek exceptionally qualified candidates, who have proven expertise in modeling, applied analysis, scientific

### *Tenure-track Position in Applied Mathematics*

computing, or related areas; engaged in innovative interdisciplinary research; and show strong potential for contributing to the research initiatives of the three academic schools on campus. Qualified applicants will have a Ph.D. in applied mathematics or a related scientific field, demonstrated scholarship in research and teaching, and effective interpersonal communication skills.

To apply please visit: <http://jobs.ucmerced.edu/n/academic/listings.jsf?seriesId=1>. AA/EOE.

## University of Southern California

The Department of Mathematics in the Dana and David Dornsife College of Letters, Arts, and Sciences of the University of Southern California seeks to fill a **tenure-track Assistant Professor** position with an anticipated start date of August 2012.

Candidates in **all fields** of mathematics will be considered. They should have demonstrated excellence in research and a strong commitment to graduate and undergraduate education. A doctoral degree is required at the time of appointment.

To apply, please submit the following materials: letter of application and curriculum vitae, including your e-mail address, telephone and fax numbers, preferably with the standardized AMS Cover Sheet. Candidates should also arrange for at least three letters of recommendation to be sent, at least one of which addresses teaching skills. Please submit applications electronically through MathJobs at [www.mathjobs.org](http://www.mathjobs.org). As an alternative and only if necessary, materials can be mailed to:

### *Tenure-track Position*

Search Committee  
Department of Mathematics  
Dornsife College of Letters, Arts and Sciences  
University of Southern California  
3620 Vermont Avenue, KAP 108  
Los Angeles, CA 90089-2532

In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser: <https://jobs.usc.edu/applicants/Central?quickFind=61200> Review of applications will begin **November 15, 2011**. Additional information about the USC Dornsife's Department of Mathematics can be found at our web site

<http://dornsife.usc.edu/mathematics/home/>

USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

## University of Southern California

The Department of Mathematics in the Dana and David Dornsife College of Letters, Arts and Sciences of the University of Southern California (USC) seeks to fill **non-tenure-track Assistant Professor of Mathematics** positions with an anticipated start date of August 2012.

Candidates in **all fields** of mathematics will be considered. Candidates should demonstrate great promise in research and evidence of strong teaching, and will be required to teach three semester courses per year. Several positions are likely to be available. Applicants should have a doctoral degree in appropriate field of study.

To apply, please submit the following materials: letter of application and curriculum vitae, including your e-mail address, telephone and fax numbers, preferably with the standardized AMS Cover Sheet. Candidates should also arrange for at least three letters of recommendation to be sent, at least one of which addresses teaching skills. Please submit applications electronically through MathJobs at [www.mathjobs.org](http://www.mathjobs.org). As an alternative and only if necessary, materials can be mailed to:

### *Non-tenure-track Position*

Search Committee  
Department of Mathematics  
Dornsife College of Letters, Arts and Sciences  
University of Southern California  
3620 Vermont Avenue, KAP 108  
Los Angeles, CA 90089-2532

In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser: <https://jobs.usc.edu/applicants/Central?quickFind=61286> Review of applications will begin **December 1, 2011**, and will continue until the positions are filled. Additional information about the USC Dornsife's Department of Mathematics can be found at our web site

<http://dornsife.usc.edu/mathematics/home/>

USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.





## University of Southern California

*Non-tenure-track Teaching Position*

The Department of Mathematics in the Dana and David Dornsife College of Letters, Arts and Sciences of the University of Southern California seeks to fill **non-tenure-track Assistant Professor (Teaching) positions of Mathematics** with an anticipated start date of August 2012.

This is a non-tenure-track appointment with a teaching load of six semester courses per year. Candidates should demonstrate excellence in undergraduate education and innovative teaching. Candidates applying to this promoted rank of Assistant Professor (Teaching) must also demonstrate that they have made an ongoing effort to develop their abilities as teachers, demonstrated excellence in teaching and service, and received strong annual performance reviews at a comparable institution of higher learning. Two positions are likely to be available. Applicants should have a doctoral degree in appropriate field of study.

In addition to teaching, job duties for this position may include organizing and overseeing undergraduate research and other math-related activities on campus, running the department's Math Center, and interacting with Rossier School of Education on issues regarding mathematics education.

To apply, please submit the following materials: letter of application and curriculum vitae, including your e-mail address, telephone and fax numbers, preferably with the

standardized AMS Cover Sheet. Candidates should arrange for three letters of recommendations to be sent addressing their teaching skills and achievements. Please submit applications through MathJobs at [www.mathjobs.org](http://www.mathjobs.org). As an alternative and only if necessary, materials can be mailed to:

Search Committee  
 Department of Mathematics  
 Dornsife College of Letters, Arts and Sciences  
 University of Southern California  
 3620 Vermont Avenue, KAP 108  
 Los Angeles, CA 90089-2532

In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser:

<https://jobs.usc.edu/applicants/Central?quickFind=61281>

Review of applications will begin **November 15, 2011**, and will continue until the positions are filled. Additional information about the USC Dornsife's Department of Mathematics can be found at our web site:

<http://dornsife.usc.edu/mathematics/home/>

USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

## The Ohio State University

The Department of Mathematics in the College of Arts and Sciences at The Ohio State University anticipates having **Hans J. Zassenhaus and Arnold Ross Assistant Professorships** available effective Autumn Semester 2012. These term positions are renewable annually for up to a total of three years. The emphasis of Zassenhaus Assistant Professorships is teaching and research, while Ross Assistant Professorships focus on instruction. While teaching loads are subject to change, the current teaching load for a Zassenhaus Assistant Professor is 2-2 (two courses each in the autumn and spring semesters). The teaching load for a Ross Assistant Professor is 3-2. Further information on the department can be found at:

*Zassenhaus and Ross Assistant Professorships*

<http://www.math.ohio-state.edu>

**Requirements:** Candidates are expected to have a Ph.D. in mathematics and to present evidence of excellence in teaching and research.

All candidates should apply online at <http://www.mathjobs.org> before **March 1, 2012**. If you cannot apply online, please contact [facultysearch@math.ohio-state.edu](mailto:facultysearch@math.ohio-state.edu) or write to: Hiring Committee, Department of Mathematics, The Ohio State University, 231 W. 18th Avenue, Columbus, OH 43210.

To build a diverse workforce, Ohio State encourages applications from individuals with disabilities, veterans and women. EEO/AA employer.

## Mathematical Sciences Research Institute (MSRI)

*Director*

Applications are invited for the position of **Director** at MSRI, an independent research organization located on the campus of the University of California in Berkeley. The appointment will be for a five-year term beginning August 1, 2013.

The attributes of a successful candidate for Director will include: 1) Outstanding mathematical accomplishments and visibility within and respect of the mathematical community; 2) Strong managerial, administrative and implementation skills; 3) A knowledge of and interest in fur-

thering the programs of MSRI; and 4) Strong interpersonal skills with a variety of constituencies.

Please communicate interest to the Director Search Committee, MSRI, by writing to [directorsearch@msri.org](mailto:directorsearch@msri.org). A completed application will include a CV and a statement of views about how MSRI should continue to develop. While applications will be considered until the position is filled, the committee will start discussions at the end of **February, 2012**. Further information about the position can be viewed at [www.msri.org/directorsearch](http://www.msri.org/directorsearch)



## University of Virginia

*Whyburn Instructorships*

The Department of Mathematics at the University of Virginia invites applications for two **Whyburn Instructorships** beginning August 25, 2012. These positions carry a three-year appointment. Preference will be given to candidates who have received their Ph.D. within the last three years. Candidates must have a Ph.D. by the date of hire, an outstanding research record, and demonstrated teaching success.

Preference will be given to researchers working in an area of **algebra, analysis, or topology** currently represented by the department. In the application cover letter, it will be very helpful to indicate which members of our department are closest to the applicant's research interests. See <http://artsandsciences.virginia.edu/mathematics/research/researchguide/index.html>.

To apply, please submit the following required documents electronically through [www.MathJobs.org](http://www.MathJobs.org): An AMS Standard Cover Sheet, a curriculum vitae, a publication list, a description of research, and a statement about teaching interests and experience. The applicant must also have four letters of recommendation submitted, of which one letter

must support the applicant's effectiveness as a teacher. In addition, all candidates are required to complete the Candidate Profile through the University of Virginia's employment system, which is Jobs@UVA (<https://jobs.virginia.edu>); posting number 0608644. Your application process will not be complete until all required documents are available on MathJobs, and you receive a confirmation number for your Candidate Profile from Jobs@UVA.

Priority consideration will be given to applications received by **December 1, 2011**; however, the positions remain open to applications until filled. Additional information about this position and our department is available on our website:

<http://artsandsciences.virginia.edu/mathematics/>  
The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, Minorities, Veterans and Persons with Disabilities are encouraged to apply. For more information about the position or institution: <http://artsandsciences.virginia.edu/mathematics/aboutus/employment/index.html>.

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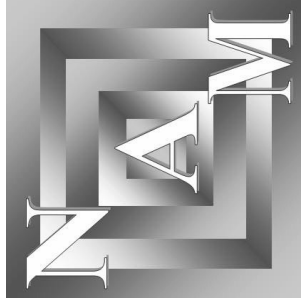
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