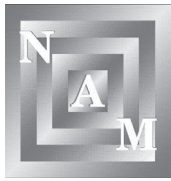


# national association of mathematicians



volume XXXV number 3 fall 2004

## CONTENTS

<b>In the News</b>	<b>1</b>
<b>The 50 Most Important Blacks in Research Science</b>	<b>2</b>
<b>Surprised! A Great Mathematician Is Black</b>	<b>3</b>
<b>Project NExT/Young Mathematician's Network</b>	<b>4</b>
<b>Numbers and Symbols in the Cameroon Grasslands</b>	<b>4</b>
<b>Thoughts on the Late Etta Falconer</b>	<b>7</b>
<b>A Biography of the late Emma Rose Fenceroy</b>	<b>8</b>
<b>Job Openings</b>	<b>8</b>
<b>NAM Calendar</b>	<b>17</b>
<b>NAM Board: Elections and Terms</b>	<b>17</b>
<b>NAM Membership Form</b>	<b>18</b>
<b>NAM Board</b>	<b>19</b>

## IN THE NEWS

**50 MOST IMPORTANT BLACK SCIENTISTS:** The magazines *Science Spectrum* and *US Black Engineer & Information Technology*, both published by Career Communications Group, Inc. of Baltimore, MD have announced the "50 Most Important Blacks in Research Science" for 2004. Three individuals, Freeman Hrabowski, Jr., Percy A. Pierre and Scott W. Williams are from the mathematics community. The complete list is in the article on page 2.

NAM MATHFest will be at Morehouse College in Atlanta, GA on October 7 - 9, 2004.

**BLACKWELL-TAPIA PRIZE:** This prize is named after David Blackwell and Richard Tapia. The prize committee announced the 2004 Blackwell-Tapia Prize has been awarded to Rodrigo Banuelos of Purdue University. Arlie Petters received the first prize in 2002.

**BIG RESEARCH GRANT** to a Black mathematician. \$600,000 grant goes to Arlie Petters' research group to explore the mathematics of stochastic gravitational lensing with applications to dark matter and quasar flux ratio anomalies. Professor Petters plans to present their research findings at future CAARMS conferences. The grant is a collaboration between Duke and MIT. Co-Principal Investigators are Paul Schechter (astronomer, MIT) and Brian Rider (probabilist, University of Colorado, Boulder), who will work closely with Professor Petters as part of a research team that includes scientists from Harvard, Postdam University in Germany, and Rutgers University. Professor Petters will be responsible for guiding the team's research, which is at the interface between mathematics and astronomy.

**2004 BLACKWELL LECTURE:** On Friday, August 13, 2004 NAM held its Blackwell lecture. The speaker was Dr. Dawn Alisha Lott of Delaware State University. Her title was Mathematical Predictions and Aneurysm Treatment.

# The 50 Most Important Blacks in Research Science

The magazines *Science Spectrum* and *US Black Engineer & Information Technology*, both published by Career Communications Group, Inc. of Baltimore, MD have announced the "50 Most Important Blacks in Research Science" for 2004. According to the publisher, the individuals were chosen based on their "lifelong work in making science part of global society." The honorees were invited to attend a colloquium and awards luncheon at the Emerald Honors Conference for Minorities in Research Science on September 17 and 18, 2004 at the Gaylord Opryland Hotel in Nashville, TN. At the conference, attendees discussed ways of increasing African American participation in science. The complete list of awardees is below. There are links to further information at <http://www.math.buffalo.edu/mad/special/50blacks2004.html>.

JAMES R. ANDRADE, Ph.D; Senior Director Research and Development, Meals Division and Growth Kraft Foods North America  
SHARON J. BARNES; Human Resources Manager, The Dow Chemical Company  
VERNOL BATTISTE; Education and Outreach Manager, Principal Investigator; NASA Ames Research Center  
GUION S. BLUFORD, JR., Ph.D.; President Aerospace Technology Group  
GEORGE R. CARRUTHERS, Ph.D.; Senior Astrophysicist Naval Research Laboratory, Space Science Division  
MARJORIE DAVIS, Senior Principal SRA International, Inc.  
MARK E. DEAN, Ph.D.; IBM Fellow and Vice President IBM Corporation  
PETER J. DELFYETT, Ph.D.; Professor of Optics, Electrical and Computer Engineering, and Physics; College of Optics and Photonics: CREOL and FPCE - University of Central Florida  
DARNELL E. DIGGS, Ph.D.; Research Physicist; U.S. Air Force Research Laboratory  
ARNOLD W. DONALD; Chairman of the Board; Merisant Company  
LISA EGBUONO-DAVIS, M.D. Vice President, U.S. Medical Pfizer Inc.  
PHILIP EMEAGWALI; Computer Scientist; Emeagwali Research  
ROSCOE C. GILES, Ph.D.; Professor of Electrical and Computer Engineering, Boston University  
DONALD E. GOODWIN; Vice President - Scientific Laboratories and Proving Grounds; DaimlerChrysler Corporation  
JOHNEY B. GREEN, JR., Ph.D. Group Leader - Fuels, Engines, and Emissions Research Center; Oak Ridge National Laboratory  
COOLIDGE HAMLETT, JR.; Director, Flight Information Systems Division NAVAIR Depot Cherry Point  
PAULA T. HAMMOND, Ph.D. Associate Professor of Chemical Engineering Massachusetts Institute of Technology  
MARY S. HARRIS, Ph.D. President BioTechnical Communications, Inc.  
WILLIAM HOGAN; Chairman and CEO The Hogan Group  
KERRIE HOLLEY; Distinguished Engineer IBM Corporation  
FREEMAN A. HRABOWSKI III, President University of Maryland, Baltimore County  
ROYCHELLE S. INGRAM-OGUNWUMI, Ph.D.; Senior Development Scientist Corning Incorporated  
SHIRLEY A. JACKSON, Ph.D. President; Rensselaer Polytechnic Institute  
LEROY JONES, Manager of Regulatory Engineering Dell Inc.  
KEVIN T. KORNEGAY, Ph.D. Director, Cornell Broadband Communications Research Laboratory; Cornell University, School of Electrical and Computer Engineering  
JEAN-YVON LAURISTON, Computer Scientist, Principal; Computer Sciences Corporation  
JULIUS L. LONGSHORE E-2/C-2 Product Build Integrated Product Team Director; Northrop Grumman Integrated Systems  
SHIRLEY M. MALCOM, Ph.D. Head, Education and Human Resources; American Association for the Advancement of Science  
WAYNE J. MARTIN, Ph.D. Environmental Scientist, Technical Group Manager; Pacific Northwest National Laboratory  
JESSE W. MCCURDY Director, Integrated Systems Evaluation, Experimentation and Test Department NAVAIR  
OLIVER MCGEE, Ph.D. Professor and Chairperson, Department of Civil and Environmental Engineering and Geodetic Science; Ohio State University

VINCENT M. MCNEIL, Ph.D. Senior Technologist, Worldwide DSP Products, Advanced Architectures and Chip Technology Texas Instruments Incorporated

PERCY A. PIERRE, Ph.D. Professor, Department of Electrical and Computer Engineering Michigan State University

DERRICK H. PITTS, Chief Astronomer and Planetarium Programs Director, Senior Scientist; Franklin Institute Science Museum

MYRTLE S. POTTER, President, Commercial Operations; Genentech, Inc.

MARQUITA M. QUALLS, Ph.D.; Principal Scientist, Pharmaceutical Development; GlaxoSmithKline

MELVIN R. RAMEY, Ph.D., P.E., Professor Emeritus, Department of Civil and Environmental Engineering; University of California, Davis

BARBARA A. SANDERS, Director of R&D Engineering, Advanced Development Delphi Thermal and Interior Systems; Delphi Corporation

BOBBY SATCHER, Ph.D., Assistant Professor, Department of Orthopedic Surgery; Northwestern University Medical Center; Mission Specialist, NASA

JOHN B. SLAUGHTER, Ph.D., President and CEO; NACME, Inc.

ARNOLD F. STANCELL, Sc.D., Emeritus Professor, Turner Servant Leadership Chair; Georgia Tech, School of Chemical and Biomolecular Engineering

JAMES H. STITH, Ph.D., Vice President, Physics Resources Center; American Institute of Physics

JOHN D. TERRY, Ph.D., Director of Baseband Systems Engineering; WiQuest Communications, Inc.

LYDIA W. THOMAS, Ph.D., President and Chief Executive Officer; Mitretek Systems, Inc.

NEIL D. TYSON, Ph.D., The Frederick P. Rose Director, Hayden Planetarium American Museum of Natural History

WOODROW WHITLOW, JR, Ph.D. Deputy Director NASA Kennedy Space Center

GINA P. WILKERSON, D.V.M., Director, Veterinary Medicine; AstraZeneca Pharmaceuticals LP

CARLO K. WILLIAMS, Ph.D., Development Scientist; Corning Incorporate

LUTHER S. WILLIAMS, Ph.D., William T. Kemper Director of Education and Interpretation; Missouri Botanical Garden

SCOTT W. WILLIAMS, Ph.D., Professor of Mathematics; University at Buffalo, The State University of New York

## Surprised! A Great Mathematician Is Black



Because of his light complexion, many people are unaware of his African heritage. But just as J. Ernest Wilkins is a mathematician proud to be an Afro-American, Francisco Antonio Doria is proud to be an Afro-Brazilian.

Doria earned a BS (1968-Chemical Engineering) from Federal University at Rio. In the two years between his BS and studying graduate mathematics, Doria trained as a securities analyst with a member of Rio's Stock Exchange. Then he went to graduate school earning a PH.D. (1977-Mathematical Physics) at the Brazilian Center for Physical Research (his advisor was the famous Leopold Nachbin). Two years later he received his Privatdocent (1979)

Francisco Doria's main achievements occupy an extremely high level of proficiency and bear on mathematical physics, logic, and the philosophy of science, some of which in wide-audience, best selling books of I. Stewart, J. Casti, J. Horgan and J. Barrow. A discussion of the da Costa-Doria results in Dynamical systems theory has appeared in

*Nature* :

- **1981-1984.** Discovery of necessary and sufficient conditions for the existence of gauge field copies in a classical nonabelian gauge field theory.
- **1991-**Proof of the undecidability and incompleteness of chaos theory

- **1991.** A counterexample to Penrose's 1989 conjecture on the nonexistence of incomputable phenomena at the level of classical physics, and solution to a Wolfrain conjecture.
- **1994.** Proofs of the decidability and incompleteness of the theory of finite noncooperative Nash games. The theory entails the undecidability and incompleteness of the Arrow-Debreu theory of competitive markets in economics.

Antonio Doriais concerned with the existence of fast-growing recursive computable functions such that it is undecidable (in theories as strong as ZF) whether they are total or not. Those results have consequences to complexity theory in computer science, especially for the  $P=?NP$  problem. Main achievement is that  $[P = NP]$  is consistent with ZF, given some strong side metamathematical conditions.

## **Project NExT/Young Mathematician's Network**

### **Poster Session**

Project NExT and the Young Mathematician's Network invite submissions of abstracts for a poster session to be held on Thursday, January 6, 2005 from 2:00 to 4:00 p.m. (room TBA) at the Joint Mathematics Meetings in Atlanta. The poster size will be 48" by 36"; it is best to have the posters 36" high. Posters and materials for posting pages on the posters will be provided on-site. We expect to accept about thirty posters from different areas within the mathematical sciences.

Should you have a special requirement involving a computer hook-up, please let us know and we will check to see if it may be accommodated.

If you are interested in participating, submit copies of your abstract to:

Prof. Ken Ross; Department of Mathematics; University of Oregon, Eugene, OR 97403-1222  
 Phone: (541) 346-4721  
 e-mail: <ross@math.uoregon.edu>  
 and

Prof. Kevin Charlwood; Dept. of Math & Statistics; Morgan Hall; Washburn University, Topeka, KS 66621  
 Phone: (785) 231-1010 ext. 1499  
 e-mail: <kevin.charlwood@washburn.edu>

Our poster sessions the past eight years were a great success. Visitors to the session each year were numerous, and included prospective employers. This session provides an excellent way to showcase one's work in a relaxed, informal environment.

The deadline for final consideration is December 10, 2004. Preference will be given to those who did not earn a Ph.D. prior to 1999; please include with your submission when and where you received your Ph.D., or indicate when you expect to receive it. Please submit your abstract via e-mail, not an attachment. If it includes mathematical formulas, please submit it in basic LaTeX or TeX format. Submissions will be acknowledged quickly by e-mail. Accepted abstracts will be posted at <http://www.youngmath.net/Documents/2004/Posters/> before the Joint Meetings.

## **More Than a Seat: Numbers and Symbols in the Cameroon Grasslands<sup>1</sup>**

**by Andrzej Gutek**

### **Introduction**

Art is an inseparable part of life in the Cameroon Grasslands. Art does not exist for its own sake, but plays an essential role in the life of the group. Symbols on masks, clothing and other objects are not restricted to artistic expression. Symbols often indicate the purpose of an object, the ceremony it is used for, or the person who is allowed to use it because many objects are personalized. For

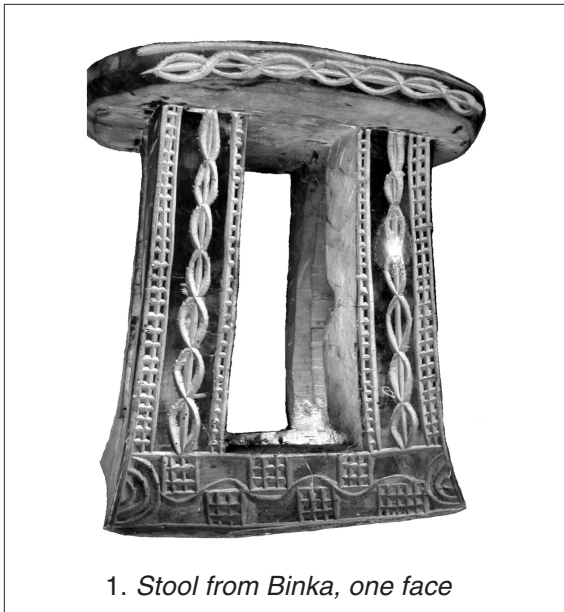
instance, indigo-dyed cloth, known as *ndop*, can be worn only by the royal family or nobility. The use of beaded objects is similarly restricted. A carved stool in a council chamber may only be used by a specific person or that person's representative. It is important to recognize these cultural mores, because breaking a taboo is a punishable offense.

## A Carved Stool as a Status Symbol

Certain carved wooden stools are reserved for important people in Western Cameroon: the Fon (king), chiefs, *Ma Fo* (a powerful female), and certain nobles. Some stools are for everyday use and others are used during the meetings of traditional societies.

Stools are carved from one piece of wood. Plain stools are used by commoners and may be given away or sold, but stools that include certain symbols cannot be disposed of so easily [5]. The royal throne or stool, even when empty, still represents the Fon, and is therefore regarded with deep respect [4]. Gebauer states [3] that "Persons of some social importance were allowed larger stools with geometric patterns or limited symbolism to indicate the owner's position in the social scale." The elephant, buffalo, leopard, lion, and python are royal symbols, usually reserved for the Fon. The earth spider is one of the most common motifs seen today, especially on the many "tourist" stools from Foumban. Another popular motif is that of the cowry shell. According to Knöpfli "The glossy bright *cowry* shell with its elongated opening is the symbol of wealth and royalty, respect and dignity." A variety of geometric motifs can also be seen on specialized and common stools. Knöpfli writes [4] that "Stools with geometrical designs are for commoners, men and women."

Nobles do not sit on ordinary stools. When an appropriate stool is not available, they prefer to stand. For this reason, stools are sometimes carried from place to place. Sometimes a stylized design and the poor condition of a stool may obscure the ownership and restrictions. One of my African colleagues was fined because he sat on a stool reserved for a council member. In more serious cases, a special ceremony is required to rectify the action. Sometimes a penalty results with privileges, though. In the past, if a wealthy person from a lower rank acquired an object that could only be used by the nobility, like a beaded stool, then the person was asked to present a gift to the Fon (the king). After the presentation and an appropriate ceremony, the guilty party was then granted the necessary title that allowed him to possess the object.



1. Stool from Binka, one face



2. Stool from Binka, opposite face

<sup>1</sup> This paper is based on research conducted in Cameroon as a Fulbright Scholar during the 2000/2001 academic year and in the Spring of 2003 through a Tennessee Technological University Non-Instructional Grant. I would like to thank Dr. Fongot Kinni for introducing me to the complexity of Grasslands art and culture and Dr. Carol Ventura for her suggestions and editing. Without all of these resources, this publication would not have been possible.

## Numbers in Political Context

Two numbers stand out in the Western Grasslands area of Cameroon (West and North-West Provinces): nine and seven. These numbers are associated with the councils of a traditional chiefdom. The Council of Nine, *mkamvu'u*, literally means “nine nobles.” *Mkam* means nobles and *vu'u* means nine.<sup>1</sup> Lecoq [5] uses the term *kamve* for the council of nine. The Council of Nine represents royal power and the power to rule. “Conseuil des neuf,” that is “the council of nine” is found throughout the Bamileke region. Its members are the Fon and eight nobles. The eight nobles are the descendants of the “founding fathers” of the chiefdom, descendants of the eight companions of the ancestor of the Fon. Notué describes a *katsho* mask [7] from Bafandji (south of Ndop in the North-West Province of Cameroon) that represents the *mkamvu'u*. He states that the two fat cheeks, symbols of fertility, represent two nobles, the six protrusions above the face represent the remaining six nobles, and the head represents the Fon, the ninth noble.<sup>2</sup>

The council of seven, *mkem sombuech*, also represents a power, but magical rather than royal power [2]. Sylvain Djache Nzefa calls its members “les grands prêtres de la chefferie,” that is “the great priests of the chiefdom.” Claudia Zaslavsky states that “Seven is a particularly ominous number among many African peoples. To the Kolokuma Ijo, seven is a number to avoid because of its association with the great divinities.”

In some areas of the North-West Province, two councils are identified with the numbers eight and seven. In Binka, a village near Ndu on the Ring Road, the *mfuh* (*mfu'* or *mfu*) council consists of eight nobles plus the Fon. *Mfuh* is one of the two houses of *manjong* and it is identified with the number eight. The other house is the Council of Seven. The two houses of *manjong* meet in two buildings facing each other that are situated in the central part of the village. This type of placement is not typical anywhere; usually they are located in different parts of the village. Descriptions of *manjong*, an age group society, differ from author to author. Notué<sup>3</sup> uses the term *majong* for this society and states that its role is to perform public works and to initiate young men to a warrior status. Raymond Lecoq gives a somewhat simpler explanation (and different spelling) for *manjong*, stating that the *mandjon* society is a man's self-help and public works organization<sup>4</sup>. Yet to enter a traditional *mfuh* house one needs to wear a cap and carry a weapon, usually a knife or a short sword.

## Numbers Eight and Seven on a Carved Stool from Binka

While visiting Binka in the spring of 2003 I was shown a carved stool with a rectangular base and a curved, almost rectangular seat that was around seventeen inches high. Two sides of the stool had intricate carved patterns, while the rest of the stool was plain. The owner of the stool was a member of *manjong*, but it was culturally inappropriate for him to tell me his title. The cowry patterns carved into the stool, however, indicate an elevated position in the society. On one side of the stool [photo 1] cowries are carved in three sets of seven. The other side of the stool [photo 2] features two vertical strings with seven carved cowries and a horizontal string with eight carved cowries. As was previously discussed, the two numbers, seven and eight, may refer to the two houses of *manjong*. There are other numbers represented on the stool. Three half circles are carved on the bottom left and right corners of the stool, and six rectangles separated by a sinuous curve are carved along the bottom of the base. On one side, the right bottom rectangle is composed of fifteen small rectangles, possibly another reference to the two houses of *manjong*. On the other side of the stool, five of the rectangles are divided into nine smaller rectangles and the sixth one is divided into twelve smaller rectangles. The triple half circles might refer to a man or energy since the number three usually represents those concepts in the Cameroon Grasslands. The symbols taken together indicate that the owner of the stool is a powerful member of both houses of *manjong*.

## Conclusion

It is only by recognizing the importance of numbers and understanding their symbolism that one can fully appreciate some of the art work of the Cameroon Grasslands. Yet the knowledge of numbers and symbols on art objects is being forgotten. Hans Knöpfli commented: “. . . the understanding of these symbols is fading fast . . . carved objects whose meanings are either no

longer known or obscure outnumber those whose symbolic meaning has survived the inevitable changes brought about by time and mankind” [4]. This situation gives urgency to future research into the relationship between mathematics and art in Cameroon.

## References

- [1] Suzanne Preston Blier, *The Royal Arts of Africa, The Majesty of Form*, Calmann & King, Ltd., published by Harry N. Abrams, New York, 1998.
- [2] Sylvain Djache Nzefa, *Les Chefferies Bamiléké dans l'Enfer du Modernisme*, Architecture-Art-Religion, France, 1994.
- [3] Paul Gebauer, *Art of Cameroon*, The Portland Art Museum, Portland, Oregon, in association with the Metropolitan Museum of Art, New York, 1979.
- [4] Hans Knöpfli, *Sculpture and Symbolism; Crafts and Technologies: Some Traditional Craftsmen of the Western Grasslands of Cameroon; Part 2: Woodcarvers and Blacksmiths*, Presbook, Limbe, Cameroon, 1998
- [5] Raymond Lecoq, *Les Bamiléké*, Presence Africaine Editions, Paris, 1998.
- [6] R. P. Engelbert Mveng, *L'Art et l'Artisanat Africains*, Editions CLE, Yaoundé, 1980.
- [7] Jean-Paul Notué, *Batcham, Sculptures du Cameroun*, Musées de Marseille, 1993.
- [8] Carol Ventura and Andrzej Gutek, *Beaded Objects from Western Cameroon*, Bead and Button, August 2002, pp. 16 - 18.
- [9] Claudia Zaslavsky, *Africa Counts; Number and Pattern in African Cultures, Third ed.*, Lawrence Hill Books, Chicago, 1999.

author: Andrzej Gutek, Department of Mathematics, Tennessee Technological University, Cookeville, TN 38505 E-mail: agutek@tntech.edu

- <sup>1</sup> [7], p. 49: Littéralement, *mkamvu'u* signifie “les neuf notables” (de *mkam* - notables [singulier: *kam*] - et *vu'u* – neuf).
- <sup>2</sup> [7], p. 50: l'ensemble du masque représente *lemkamvu'u*; - les deux joues, symboles de la fécondité du groupe, constituent deux des neuf notables; - les six “bosses” supérieures sont les signes de six autres notables; - enfin, le reste, dont la tête, figure le *fo*, neuvième notable. For a photograph of the mask see [7], page 49.
- <sup>3</sup> [7], p. 56: Le *majong* est une société de classes d'âge dont le but est d'initier les jeunes gens au métier des armes et d'effectuer des travaux d'intérêt commun: construction de cases, de ponts et des chemins.
- <sup>4</sup> [5], p. 45: mandjon – hommes, assistance mutuelle, constructions.

## Thoughts on the Late Etta Falconer by Demara L. Williams

The following letter was sent to the Newsletter editor by the daughter of one of the first Black mathematicians, Lloyd Kenneth Williams.

I would like to add a personal note of sadness and grief concerning the death of one of the most precious people from my childhood memories. Just a few days ago, I learned about Dr. Etta Falconer's passing. She was a very kind and gentle lady.

Her son Walter and I were in elementary school together in Atlanta from first to seventh grade. When I was invited to birthday parties, Dr. Falconer and her husband were always utterly hospitable. I remember feeling that I had more freedom than a bird in the Falconer family's home when we were in fourth grade. Alice was polite and creative and assumed the role of protective older sister with me as we played one game after another, many of which she either created with her genius or introduced me to from another source. I remember staying long after all other guests were gone because I felt so at home! Dolan Jr. was extremely shy and probably hid someplace watching television.

I called Walter toward the end of my father's life for advice on his lab readings and other pertinent data. Walter was very accommodating and even gave me his home phone number. After Daddy went to be with Jesus, Walter offered strong fraternal support and shared with me what he had learned from losing his own wonderful, gentlemanly father.

When all is said and done, I salute Dr. Falconer for a job well done in raising children. I also salute her husband, the respected Morris Brown coach.

I also must thank you for the information which you recently sent about my father's rank among African-American Berkeley PhDs in math. It's comforting to know that although he was not the first, he was one of the first [ed. the fourteenth African American to earn the Ph.D. in mathematics].

I am the daughter of the late Lloyd Kenneth Williams. My father sometimes had encounters with the late Dr. Falconer in the various and sundry Atlanta University Center meetings.

It was my great privilege to talk to her about him when I re-established contact with the Falconer family in 2000. She assured me that he was a professor who truly was concerned about the welfare of the students. Her words were not a little refreshing!

Dr. Falconer was no less kind to me when my father died. She very gently and carefully asked me to give her names of people for her to tell on my behalf. I also got a sympathy card from her. What a priceless lady! I've even written a poem in her memory, which I'll e-mail to you sometime in the near future.

Thank you again and I join all others in missing that great pioneer of black women in mathematics.

## **A Biography of the Late Emma Rose Fenceroy**

Emma Rose Fenceroy was born in Rayville, Louisiana on May 1, 1944. She completed her elementary and high school education in the Rayville area and began her post secondary education at Grambling State University where she graduated with honors with the B.S. degree in Mathematics. Early in her career, Fenceroy satisfied her curiosity in biology by completing the M.S. degree in Biology from Ball State University. She then entered Texas State University to obtain the M.S. degree in Mathematics. She later enrolled in the graduate program at the University of Alabama-Tuscaloosa on a United States Title III National Faculty Fellowship. In 1979 Emma Fenceroy became the nineteenth African American woman to receive the Ph.D. degree in Mathematics.

Dr. Fenceroy held memberships in several professional organizations: the Alpha Kappa Mu National Honor Society; the Beta Kappa Chi National Scientific Honor Society; the Zeta Phi Beta Sorority; and Phi Beta Kappa. She was an outstanding faculty member of the Florida A&M University Department of Mathematics and won several Teacher of the Year awards. She achieved the rank of professor in the Department and served as chairperson for a number of years. She is noted for the significant role she played in the success of the Florida A&M University College Level Academic Skills Program (CLASP), particularly in the realm of mathematics. During her twenty-five years of dedicated service at FAMU, Dr. Fenceroy made significant contributions to the University while serving on the University Faculty Senate, University Tenure and Promotion Committee, and the College of Arts & Sciences Chair Council. Dr. Fenceroy had a passion for helping students and she worked incessantly for their academic and professional development.

Dr. Emma Rose Fenceroy passed on Tuesday, December 2, 2003, in Tallahassee after a long battle with cancer.

## **Job Openings**

Recall that for several years, NAM has had a web site with listings of open positions. This process is open to advertisers in the Newsletter. The advertisements appear there six or more weeks before they appear in the Newsletter. Go to the editor's NAM web site within MAD: <http://www.math.buffalo.edu/mad/NAM/>



## **Institute for Advanced Study**

### **School of Mathematics**

The School of Mathematics has a limited number of memberships, some with financial support for research in mathematics and computer science at the Institute during the 2005-06 academic year. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree.

During the academic year 2005-06 the School will host a program on Lie groups, representations and discrete mathematics. The program will be led by Alexander Lubotzky of The Hebrew University of Jerusalem. The goal of the program is to bring together mathematicians from several areas in order to strengthen the ties between the fields and generate further collaborations.

For additional information on the program, see <http://www.math.ias.edu/liegroups.html>. The School of Mathematics and the Department of Mathematics at Princeton University have established the Veblen Research Instructorship, and three-year instructorships will be offered each year to candidates who have received their Ph.D. within the last 3 years. The first and third year of the instructorship will be spent at Princeton University and will carry regular teaching responsibilities. The second year will be spent at the Institute and dedicated to independent research of the instructor's choice.

Application materials for both the IAS MEMBERSHIPS and the VEBLEN RESEARCH INSTRUCTORSHIP positions may be requested from Applications, School of Mathematics, Institute for Advanced Study, Einstein Drive, Princeton, NJ 08540, e-mail: [applications@math.ias.edu](mailto:applications@math.ias.edu). Application forms may be downloaded via a web connection to <http://www.math.ias.edu>. Both deadlines are December 1.

## **HARVEY MUDD COLLEGE**

### **Department of Mathematics**

Harvey Mudd College invites applications for a tenure-track assistant or associate professorship in statistics, biostatistics, or related statistical fields. Excellence in teaching is essential, as is evidence of a strong and ongoing research program. Preference given to candidates familiar with modern data analysis techniques with cross-disciplinary interests.

Harvey Mudd College is highly selective; the median SAT is 1470, and nearly half the graduates go to graduate school. HMC enrolls 700 students and is part of the Claremont College consortium, which consists of four other undergraduate colleges and two graduate schools, about 5000 students in total. There is an active research community of over 40 mathematicians and statisticians in the consortium.

Please send vita, teaching philosophy, research program description, undergraduate and graduate transcripts, and three letters of recommendation. See further information at <http://www.math.hmc.edu/>. Preference to applications completed by December 17, 2004.

Harvey Mudd College is an equal opportunity employer and committed to the recruitment of applicants historically underrepresented on college faculties.

Address: Professor Francis E. Su; Chair, Search Committee; Department of Mathematics; Harvey Mudd College; Claremont, CA 91711-5990

## **DARTMOUTH COLLEGE**

### **John Wesley Young Research Instructorship**

The John Wesley Young Instructorship is a post-doctoral two-year appointment intended for promising Ph.D. graduates with strong interests in both research and teaching and whose research interests overlap a department member's. Current research areas include applied mathematics, combinatorics, geometry, logic, non-commutative geometry, number theory, operator algebras, probability, set theory and topology. Instructors teach four ten-week courses distributed over three terms, though one of these terms in residence may be free of teaching. The assignments normally

include introductory, advanced undergraduate, and graduate courses. Instructors usually teach at least one course in their own specialty. This appointment is for 26 months with a monthly salary of \$4,350.00, and is not renewable. Salary includes two-month research stipend for Instructors in residence during two of the three summer months in 2006 and 2007. To be eligible for a 2005-2007 Instructorship, candidate must be able to complete all requirements for the Ph.D. degree before September, 2005. Applications may be obtained at <http://www.math.dartmouth.edu/recruiting/>. Or, submit a letter of application, curriculum vitae, graduate school transcript, thesis abstract, statement of research plans and interests, and at least three, preferably four, letters of recommendation to Donna Black, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover, New Hampshire 03755-3551. At least one referee should comment on applicant's teaching ability; at least two referees should write about applicant's research ability. Applications received by January 5, 2005 receive first consideration; applications will be accepted until position is filled. Dartmouth College is committed to diversity and strongly encourages applications from women and minorities.

### **Tenure Track Applied Mathematics**

The Department of Mathematics anticipates a tenure-track opening with initial appointment in the 2005-2006 academic year. The position is for an applied mathematician at the rank of Assistant Professor. In extraordinary cases, an appointment at a higher rank is possible. Successful candidate should have demonstrated ability to work across disciplines; particularly, it is expected that he or she seek out and strike up collaborations across campus with departments such as biology, physics, computer science; he/she should also aggressively seek funding in his/her area of research. Current applied interests include (but not limited to) imaging, signal processing, computational number theory, statistical physics, stochastic processes, quantum computing and computational biology and are receiving funding from various sources including NSF and NIH. Candidates for the position must be committed to outstanding teaching and interaction with students at all levels of undergraduate and graduate study.

To create an atmosphere supportive of research, Dartmouth offers new faculty members grants for research-related expenses, a quarter of sabbatical leave for each three academic years in residence and flexible scheduling of teaching responsibilities. The teaching responsibility in mathematics is three courses spread over three of four ten-week terms.

To apply for the position, applications may be obtained at <http://www.math.dartmouth.edu/recruiting>. Or, send a letter of application, curriculum vitae, and a brief statement of research results and interests, and arrange for four letters of reference, at least one of which specifically addresses teaching, to be sent to Donna Black, Recruiting Secretary, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover, New Hampshire 03755-3551. Applications received by December 15, 2004 will receive first consideration.

Dartmouth College is committed to diversity and strongly encourages applications from women and minorities. Inquiries about the progress of the selection process may be directed to Dan Rockmore, Recruiting Chair.

### **Tenure Track Set Theory/Logic or Algebra**

The Department of Mathematics anticipates a tenure-track opening with initial appointment in the 2005-2006 academic year. In extraordinary cases, an appointment at a higher rank is possible. Preference given to candidates working in either set theory/logic or areas of algebra with connections to existing research interests in the department including computational algebra, algebraic and arithmetic geometry, representation theory, coding theory and algebraic combinatorics. Candidates for the position must also be committed to outstanding teaching and interaction with students at all levels of undergraduate and graduate study.

To create an atmosphere supportive of research, Dartmouth offers new faculty members grants for research-related expenses, a quarter of sabbatical leave for each three academic years in residence and flexible scheduling of teaching responsibilities. The teaching responsibility in mathematics is three courses spread over three of four ten-week terms.

To apply for the position, applications may be obtained at <http://www.math.dartmouth.edu/recruiting>. Or, send a letter of application, curriculum vitae, and a brief statement of research results and interests, and arrange for four letters of reference, at least one of which specifically addresses teaching, to be sent to Donna Black, Recruiting Secretary, Department of Mathematics, Dartmouth

College, 6188 Bradley Hall, Hanover, New Hampshire 03755-3551. Applications received by December 15, 2004 will receive first consideration.

Dartmouth College is committed to diversity and strongly encourages applications from women and minorities. Inquiries about the progress of the selection process may be directed to Dan Rockmore, Recruiting Chair.

## **THE MATHEMATICAL SCIENCES RESEARCH INSTITUTE**

**Berkeley, California**

MSRI solicits applications for membership in its 2005-2006 programs:

NONLINEAR DISPERSIVE EQUATIONS (Fall 2005)

NONLINEAR ELLIPTIC EQUATIONS & ITS APPLICATIONS (Fall 2005)

RATIONAL AND INTEGRAL POINTS ON HIGHER-DIMENSIONAL VARIETIES (Spring 2006)

NEW TOPOLOGICAL STRUCTURES IN PHYSICS (Spring 2006)

Apply online for Research Professorships, Postdoctoral Fellowships, or General Memberships at [www.msri.org](http://www.msri.org).

## **POMONA COLLEGE**

### **Tenure Track**

Tenure-track position in Algebra, Number Theory, Combinatorics, Geometry or a related field. Send applications to Shahriar Shahriari, Chair; Mathematics Department; Pomona College, 610 North College Avenue, Claremont, CA 91711-6348, or electronically to [mathsrch@pomona.edu](mailto:mathsrch@pomona.edu).

Application includes a 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. Will fully consider applications completed by December 1, 2004. Pomona College is an equal opportunity employer and especially invites applications from women and members of underrepresented groups.

### **Biostatistics**

Pomona College invites applications for a three year appointment in Biostatistics consisting of a one year teaching position and a two year post-doctoral research/teaching position. Ph.D. required. Send CV, statements of teaching & research, transcript, and three letters of recommendation: Biostatistics Search Committee; Department of Mathematics; Pomona College 610 N. College Ave., Claremont, CA 91711

Complete advertisement: [www.math.pomona.edu/facultyjobs.html](http://www.math.pomona.edu/facultyjobs.html) Questions: Jo Hardin ([jo.hardin@pomona.edu](mailto:jo.hardin@pomona.edu)).

## **UNIVERSITY OF PITTSBURGH**

### **Number Theory/Cryptography or Algebraic Geometry/Representation Theory**

The Mathematics Department of the University of Pittsburgh invites applications for a tenure-track position in Number Theory /Cryptography or Algebraic Geometry /Representation Theory to begin in the Fall Term 2005, pending budgetary approval. The appointment is at the Assistant Professor level or above, depending on the credentials of the applicant. We seek excellence in teaching and research so applicants should demonstrate substantial research accomplishment and dedication to teaching. Send a vita, three letters of recommendation, a research statement and evidence of teaching accomplishments to: Search Committee in Algebra, Department of Mathematics, University of Pittsburgh, Pittsburgh, PA 15260. Review of completed files will begin on November 1, 2004 and continue until the position is filled. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

### **Scientific Computing/Numerical Analysis**

The Mathematics Department of the University of Pittsburgh invites applications for a tenure-track position in Scientific Computing/Numerical Analysis to begin in the Fall Term 2005, pending budgetary approval. The appointment is at the Assistant Professor level. We seek excellence in teaching and research so applicants should demonstrate substantial research accomplishment and dedication to teaching. Send a vita, three letters of recommendation, a research statement and evidence of teaching accomplishments to: Search Committee in Numerical Analysis, Department of Mathematics, University of Pittsburgh, Pittsburgh, PA 15260. Review of completed files will begin on November 1, 2004 and continue until the position is filled. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

### **MERCER UNIVERSITY – Macon, GA**

#### **Assistant Professor, Department of Mathematics**

The Department of Mathematics at Mercer University invites applications for a position at the level of Assistant Professor of Mathematics. A Ph.D. in mathematics or the mathematical sciences is required. The position begins in August 2005. Duties include teaching approximately 21 semester hours of mathematics courses per year plus departmental duties as assigned by the Chair and college duties as assigned by the Dean. The successful candidate will have completed a Ph.D. in mathematics, 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 an interdisciplinary course outside of the department will be considered a plus in evaluating candidates.

Apply online at [www.mercerjobs.com](http://www.mercerjobs.com). Review of applications will begin November 29, 2004, and will continue until the position is filled. Department representatives will attend the Employment Center at the Joint Meetings in January. AA/EOE/ADA

### **University at Buffalo, SUNY**

#### **Department of Mathematics**

The Department of Mathematics anticipates the appointment of several tenure-track assistant professors, effective August, 2005. Salary will be competitive. We seek candidates from all fields, particularly Algebra and Analysis. Applicants should have excellent research accomplishments and potential, a Ph.D. in the mathematical sciences and a strong commitment to teaching.

A complete application consists of a curriculum vitae, a statement of research interests and four letters of recommendation. These materials should be sent to:

Search Committee, Department of Mathematics, University at Buffalo, SUNY,  
Mathematics Building 244, Buffalo, NY 14260-2900

The deadline for applications is November 5, 2004. Late applications will be considered until the positions are filled. No electronic applications will be accepted.

The University at Buffalo is an Equal Opportunity Employer/Recruiter. We are interested in identifying prospective minority and women candidates. No person, in whatever relationship with the University at Buffalo, shall be subject to discrimination on the basis of age, color, creed, handicap, marital status, national origin, race, religion, sex, sexual orientation or veteran status.

### **Northwestern University**

Northwestern University, Department of Mathematics

2033 Sheridan Road 3, Evanston, Illinois 60208-2730

#### **Boas Assistant Professors**

Applications are solicited for up to three Ralph Boas assistant professorships of three years each starting in September 2005. Fields of interest within the department include Algebra, Algebraic Geometry, Analysis, Dynamical Systems, Mathematical Physics, Probability, Partial Differential Equations and Topology. They are non-tenure track.

Applications should be sent to the Boas Selection Committee at the department address and include: (1) the American Mathematical Society's Application Cover Sheet for Academic Employment, (2) a curriculum vitae, and (3) three letters of recommendation including one which discusses in some detail the candidate's teaching qualifications. Applications may also be made electronically at MathJobs.org: [www.mathjobs.org](http://www.mathjobs.org). Inquiries may be sent via e-mail to: [hiring@math.northwestern.edu](mailto: hiring@math.northwestern.edu).

Applications are welcomed at any time, but the review process starts December 1, 2004. Northwestern University is an affirmative action, equal opportunity employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.

### **Tenure Track**

Applications are invited for an anticipated tenure-track position starting September 2005. Priority will be given to exceptionally promising research mathematicians. Fields of interest within the department include Algebra, Algebraic Geometry, Analysis, Dynamical Systems, Mathematical Physics, Probability, Partial Differential Equations, and Topology.

Application material should be sent to Personnel Committee, at the department address and include: (1) the American Mathematical Society's Application Cover Sheet for Academic Employment, (2) a curriculum vitae, and (3) at least four letters of recommendation including one which discusses in some detail the candidate's teaching qualifications. Applications may also be made electronically at MathJobs.org: [www.mathjobs.org](http://www.mathjobs.org).

Inquiries may be sent via e-mail to: [hiring@math.northwestern.edu](mailto: hiring@math.northwestern.edu)

Applications are welcome at any time, but the review process starts in October 2004. Northwestern University is an affirmative action, equal opportunity employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.

## **Baylor University**

### **Department of Mathematics**

Applications are sought for Departmental Chair plus an additional open-rank tenure-track position beginning August 2005. Please visit the departmental website, <http://www3.baylor.edu/Math/Chair.htm> for more information.

## **Purdue University**

### **[www.math.purdue.edu](http://www.math.purdue.edu)**

The Purdue Mathematics Department invites applications for the position of Professor of Mathematics and Director, Center for Computational and Applied Mathematics. Applicants should have a strong research record in computational/applied mathematics; proven ability to work with graduate students, postdocs, and colleagues; and a record of funding success.

Essential duties: Conduct research; direct graduate students. Coordinate the development of applied areas in the department, facilitate research contacts between mathematics faculty and faculty in other departments, oversee the computational/applied mathematics visitor and seminar programs, and help create an atmosphere in which the educational programs of graduate students and post-doctoral staff in computational/applied mathematics can flourish.

Applications will be reviewed immediately upon receipt. The search will remain open until the position is filled. Send cover letter, CV, and the names of at least three references to: CCAM Director Search Committee, Department of Mathematics, Purdue University, West Lafayette, IN 47907-2067.

Direct inquiries to: [goeke@math.purdue.edu](mailto: goeke@math.purdue.edu)

Purdue University is an Affirmative Action/Equal Access/Equal Opportunity Employer.

## Syracuse University

The department seeks to fill a tenure-track position in applicable mathematics beginning August, 2005. 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 applicable mathematics, exceptional candidates in all areas will be considered. Preference will also be given to candidates who have postdoctoral experience and whose research interests overlap and/or complement those of existing faculty. Areas of applicable mathematics presently represented in the department include applied mathematics/numerical analysis, combinatorics, and statistics. See <http://math.syr.edu> for more information.

Applications should include a cover letter, CV, three letters of recommendation addressing research qualifications, and at least one letter of recommendation addressing teaching. Send applications to Chair, Department of Mathematics, Syracuse University, Syracuse, NY 13244. For full consideration, applications should be received by November 15, 2004.

## University of Virginia

The Department of Mathematics invites applications for a tenure-track assistant professorship, beginning in the fall of 2005, Ph.D. required. Special attention will be given to applicants working in probability-related fields. Applicants must present evidence of outstanding accomplishments and promise in both research and teaching. Applications from women and minorities are especially welcome.

To apply, please send a letter of application, a curriculum vita, and at least four letters of recommendation, one of which should support the applicant's teaching, to:  
Hiring Committee; Department of Mathematics; University of Virginia; Kerchof Hall  
P.O. Box 400137 Charlottesville, VA 22904-4137

Completed applications and letters of recommendation should be received by January 3, 2005 for full consideration. Applicants are also required to complete the electronic information form located on the Department's homepage (<http://www.math.virginia.edu>). Click on Faculty Hiring and follow instructions.

The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

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 University of Texas at Austin

### Department of Mathematics

Austin, Texas 78712

Expected openings for Fall 2005 include: **(a)** Instructorships, some that have R.H. Bing Faculty Fellowships attached to them and others that are VIGRE Instructorships, and **(b)** three positions at the tenure-track/tenure level.

**(a) Instructorships** at The University of Texas at Austin are postdoctoral appointments, renewable for two additional years. It is assumed that applicants for Instructorships will have completed all Ph.D. requirements by August 31, 2005. Other factors being equal, preference will be given to those whose doctorates were conferred in 2004 or 2005. Candidates should show superior research ability and have a strong commitment to teaching. Consideration will be given only to persons whose research interests have some overlap with those of the permanent faculty. Duties consist of teaching undergraduate or graduate courses and conducting independent research. The projected salary is \$40,000 for the nine-month academic year.

Each **R.H. Bing Fellow** holds an Instructorship in the Mathematics Department, with a teaching load of two courses in one semester and one course in the other. The combined Instructorship-Fellowship stipend for nine-months is \$47,000, which is supplemented by a travel allowance of

\$1,000. Pending satisfactory performance of teaching duties, the Fellowship can be renewed for two additional years. Applicants must show outstanding promise in research. Bing Fellowship applicants will automatically be considered for other departmental openings at the postdoctoral level, so a separate application for such a position is unnecessary.

**VIGRE Instructorships** are partially funded by an NSF VIGRE Grant awarded to the department (in partnership with the Texas Institute for Computational and Applied Mathematics). The combined Instructorship-VIGRE Postdoctoral Fellowship carries a nine-month stipend of \$45,000, with an annual allocation of \$2500 to cover equipment, supplies, and travel. The position also includes summer support in the amount of \$6500 for the **first two summers** of the appointment. VIGRE appointments are contingent upon continued funding. The teaching load for VIGRE Instructors is one course per semester. Only citizens, nationals and permanent residents of the U.S. are eligible for VIGRE Instructor appointments. Furthermore, a VIGRE Instructor must have received the Ph.D. within eighteen months of the date the appointment becomes effective. All eligible applicants for postdoctoral positions in either the Mathematics Department (ICES) will automatically be considered for a VIGRE Instructorship.

Those wishing to apply for Instructor positions are asked to send a vita and a brief research summary to the above address c/o Instructor Committee. Transmission of the preceding items via the internet (URL: <https://www.ma.utexas.edu/jobs/application>) is encouraged.

**(b)** An applicant for a **tenure-track** or **tenured** position must present a record of exceptional achievement in her or his research area and must demonstrate a proficiency at teaching. In addition to the duties indicated above for Instructors, such an appointment will typically entail the supervision of M.A or Ph.D. students. The salary will be commensurate with the level at which the position is filled and the qualifications of the person who fills it.

Those wishing to apply for **tenure-track/tenured** positions are asked to send a vita and a brief research summary to the above address, c/o Recruiting Committee. Transmission of the preceding items via the internet (URL: <https://www.ma.utexas.edu/jobs/application/TenureTrack>) is encouraged.

All applications must be supported by three or more letters of recommendation, at least one of which speaks to the applicant's teaching credentials. The screening of applications will begin on December 1, 2004. The University of Texas at Austin is an equal opportunity employer.

## **University of Arkansas, Fayetteville**

### **Department of Mathematical Sciences**

Detailed information available at

<http://www.uark.edu/depts/mathinfo/mathedposition/>

University of Arkansas Department of Mathematical Sciences invites applications for a tenure-track Assistant Professor position in Mathematics Education. Women and minorities are especially encouraged to apply.

Selection process begins December 1, 2004, until the position is filled. The position requires:

(1) mathematics Ph.D. with experience in K-12 education, or mathematics education Ph.D. with the equivalent of a Master's degree in mathematics; (2) demonstrated potential for productive research and teaching a wide range of undergraduate mathematics courses including courses for K-12 teachers.

The University of Arkansas, Fayetteville, is a research university and the flagship institution of the University of Arkansas system. For information on the University and Department see <http://www.uark.edu/> and <http://www.uark.edu/depts/mathinfo/>

## **Buwing Green State University**

### **Department of Mathematics and Statistics**

Applications are invited for three tenure track positions beginning in Fall 2005. Please see [www.bgsu.edu/dept/math](http://www.bgsu.edu/dept/math) for further details. 1. Director of Service Mathematics. Open rank. The Director is responsible for the coordination of various precalculus mathematics and statistics courses and for the supervision of instructors. PhD or EdD, experience coordinating multi-section service courses, and a willingness to experiment with innovative approaches to entry level courses required. Starting date July 1, 2005. Eleven month contract. 2-3. Assistant Professor positions in statistics, algebra. PhD, strong research record, ability to broaden or complement current research strengths in the department, commitment to outstanding teaching at all levels required. Applications must be postmarked by January 14, 2005. BGSU is an AA/EO employer and encourages applications from women and minorities.

## **Case Western Reserve University**

### **Department of Mathematics, Case Western Reserve University, Cleveland, OH**

One or more tenure-track appointments. Open rank, however appointment at the rank of assistant professor is strongly preferred. We especially emphasize coordination with Department, College and University goals, including undergraduate teaching in the University's SAGES Program. Areas of preference have been identified to meet Department priorities. For more information and instructions, see <http://www.case.edu/artsci/dean/searches/mathematics05.html>. Indicate in which area you wish to be considered. The successful candidate will hold the Ph.D. or equivalent and have, relative to career stage, a distinguished record of publication, research, service, and teaching. Compensation commensurate with qualifications. Electronic applications only, to: James Alexander, [math-faculty-position@cwru.edu](mailto:math-faculty-position@cwru.edu), consisting of a letter of application, which indicates in which area of preference you wish to be considered, AMS cover sheet, a c.v., and the names and contact information for four referees to whom we may write. Visiting positions/ instructorships/ lectureships may also be open. Evaluation of applications will begin December 15, 2004. Case is a recipient of an NSF ADVANCE institutional transformation grant to increase the participation of women in science and engineering. Case Western Reserve University is committed to diversity and is an affirmative action, equal opportunity employer. Applications from women or minorities are especially encouraged.

## **Carleton College**

Carleton College Department of Mathematics and Computer Science has a tenure-track position in Mathematics at the Assistant Professor level to begin September, 2005. Ph.D. must be completed or substantially completed, and evidence of teaching excellence is essential. Carleton faculty ordinarily teach two courses per term, three terms per nine-month year.

Carleton is a highly selective liberal arts college 45 miles south of Minneapolis/St. Paul. The department has 12 full-time members committed to teaching mathematics, statistics and computer science in a liberal arts setting. Faculty also are expected to maintain an active scholarly agenda and the college provides generous support for research and other professional activities. The department recently moved into a new building with excellent facilities for learning and teaching. Computing resources available to the department include four teaching laboratories equipped with Pentium IV PCs running Windows XP and Linux, a four-processor student server, a four-processor data mining server, web, email, and file servers. The department employs a full-time computer technician/system administrator.

Send letter of application, graduate transcript, résumé, a concise statement about working in an undergraduate liberal arts environment, and three letters of recommendation to Math Search, Department of Mathematics and Computer Science, One North College Street, Northfield, MN 55057-4025. (Send questions to: [mathsearch@mathcs.carleton.edu](mailto:mathsearch@mathcs.carleton.edu).) At least one letter should specifically address teaching experience.

Carleton is an affirmative action/equal employment employer. We are committed to developing our faculty to better reflect the diversity of our student body and American society. Women and members of minority groups are strongly encouraged to apply. Review of applications will begin December 1 and continue until the position is filled.



## Gettysburg College

### Tenure-Track Positions

Gettysburg College invites applicants for two tenure-track positions in mathematics beginning August 2005. One of the two positions is restricted to the general area of applied mathematics or statistics, with a special interest in a scholar whose work links mathematics and biology. The specialization for the other position is open and individuals from all research areas are invited to apply. While the positions are targeted at the Assistant Professor level, others might be considered. Applicants must have a Ph.D. in mathematics, applied mathematics, or statistics or expect to complete all requirements for this degree by September 2005. Promise of excellence in teaching and commitment to a vigorous research program are essential. A successful candidate will have the opportunity to teach a broad range of undergraduate mathematics courses and to involve undergraduate students in mathematical activity outside the classroom.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore/Washington metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of 2,500 students. Gettysburg College celebrates diversity and invites 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. For more information about us and the position, please visit [http://www.gettysburg.edu/academics/math/applicant\\_information.html](http://www.gettysburg.edu/academics/math/applicant_information.html).

Please send a letter of application explaining your interest in our department, a curriculum vitae, a brief description of your teaching methods and objectives, and a summary of your research goals. Also arrange for the committee to receive three letters of recommendation addressing teaching effectiveness and research potential to: Mathematics Search Committee, Department of Mathematics, Gettysburg College, Gettysburg, PA 17325

Completed applications received by December 1, 2004, will receive full consideration.

## NAM Calendar

NAM's *Online Conference Calendar* and the most recent links to relevant conferences announcements. at <http://www.caam.rice.edu/~nated/orgs/nam/programs/conferences.html>

Many of NAM's events are posted on the NAM headquarters website <http://jewel.morgan.edu/~nam/>

## NAM Board: Elections and Terms

NOMINATIONS (open to members) are due for the NAM Board positions Vice-President, Region B representative, and Majority Institution representative. By August 1, please contact NAM's Majority Institution member and election supervisor Dr. Earl Barnes School of Industrial Systems Engineering; Georgia Institute of Technology; Atlanta, GA 30332-0205. Make certain the nominated individual agrees to run, and serve if elected. Send vita data such as Name, email address, School, position, and date of last degree.

All members of the Board shall be elected to a term of office for a period of two years and elections shall be staggered for continuity. Regular elections shall occur in the fall of each year and the persons elected shall be duly installed at the first Annual NAM meeting following the election. The term of each elected position is three (3) years. The editor will be an appointed position for a period of three years. The Editor shall be responsible for the production of the Newsletter and shall perform such other duties as the Board of Directors may specify. The Executive Secretary shall be selected to serve for a period of five (5) years and shall begin the term of office at the Spring Board Meeting. His/her selection must be the unanimous choice of the existing Board of Directors.

The election of the members of the Board of Directors shall be by official ballots and shall be supervised by the Board of Director's Committee on Legislation-Nomination. When the election is by mail, all current members in good standing in NAM shall be provided a ballot and given reasonable time to return it.

The election cycle is computed modulo 3. Year 2004 is year 2 mod 3. It is the election Representative of Region C, Community College Representative, Secretary/Treasurer.

In year 0 mod 3 Representative of Region A, Government/Industry Representative, President  
In year 1 mod 3 Representative of Region B, Majority Institution Representative, Vice President.



# National Association of Mathematics Membership Form

(For New Applications and Annual Membership Renewal)

Membership Calendar Year: January 1 - December 31

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Institution/Employer \_\_\_\_\_

Telephone: Home ( ) \_\_\_\_\_ Office ( ) \_\_\_\_\_

Fax ( ) \_\_\_\_\_ E-mail Address \_\_\_\_\_

### Select Appropriate Membership Type

Student : \$15       Individual : \$25       Contributing : \$50       Sustaining : \$75

Institutional : \$100       Life : \$400

**PLEASE RETURN THIS COMPLETED FORM AND MEMBERSHIP DUES TO :**

**Dr. Robert E. Bozeman, Secretary-Treasurer**

**National Association of Mathematicians;**

**Department of Mathematics**

**Morehouse College**

**Atlanta, GA 30314**

**(404) 215-2613 (office)**

**E-mail: rbozeman@morehouse.edu**

**Web page: (new) <http://www.math.buffalo.edu/mad/NAM/index.html>**

**Individuals and Students:** Please complete below if you did not send NAM this information within the past three years.

List all degrees you currently hold. Circle the correct degree.

B.S. or B.A.: Area \_\_\_\_\_ Institution \_\_\_\_\_

M.S. or M.A.: Area \_\_\_\_\_ Institution \_\_\_\_\_

Ph.D. or Ed.D.: Area \_\_\_\_\_ Institution \_\_\_\_\_

Other: Area \_\_\_\_\_ Institution \_\_\_\_\_

### Desired Participation in NAM

Institutional Representative (for NAM)      Area or State Representative \_\_\_\_\_

Committee Membership (specify interest): \_\_\_\_\_

Need additional information about the organizational structure of NAM

Ethnicity:

African American       Hispanic American       White       Other  \_\_\_\_\_

# NAM'S Board of Directors

Title	Preferred Address	Telephone/Fax/Email
<b>President</b> John W. Alexander Jr. Miami Dade Community College	Miami Dade Community College Department of Mathematics 11380 NW 27th Ave. Miami, FL 33167	(305) 348-8307 (O) jalexan2@mdcc.edu
<b>Vice President</b> Nathaniel Dean Texas Southern University	Department of Mathematical Sciences NSC 129 Texas Southern University 3100 Cleburne Avenue Houston, TX 77004	(713) 313-7074 (O), (713) 313-1298 (fax), dean_nx@tsu.edu
<b>Secretary/Treasurer</b> Robert E. Bozeman Morehouse College	Department of Mathematics Morehouse College Atlanta, GA 30314	(404) 215-2613 (O) (404) 589-1661 (fax) rbozeman@morehouse.edu
<b>Region A Member</b> Dr. Roselyn Williams Florida A&M University	Department of Mathematics Florida A&M University Tallahassee, FL 32307 <a href="http://www.famu.edu/acad/colleges/cas/mathteachers/faculty.h">http://www.famu.edu/acad/colleges/cas/mathteachers/faculty.h</a>	(850) 599-3595 (O) (850) 599-8480 (fax) roselyn.williams@mail.famu.edu
<b>Region B Member</b> Dr. William Hawkins University of District Columbia and MAA	3046 Nash Place, S.E. Washington, DC 20020-3641 <a href="http://www.maa.org/summa/archive/HAWKINSW.HTM">http://www.maa.org/summa/archive/HAWKINSW.HTM</a>	bhawkins@maa.org whawkins@udc.edu
<b>Region C Member</b> Dr. Mary S. Hawkins Prairie View A&M University	EST Program Prairie View A&M University Prairie View , TX 77446	(409) 857-4710 (O) (409) 857-2118(fax) MaryHawkins@pvamu.edu
<b>Majority Institution Member</b> Dr. Earl R. Barnes Georgia Institute of Technology	School of Industrial Systems Engineering Georgia Institute of Technology Atlanta, GA 30332-0205 <a href="http://www.isye.gatech.edu/people/faculty/Earl_Barnes/">http://www.isye.gatech.edu/people/faculty/Earl_Barnes/</a>	(404) 894-2310 (O) ebarnes@isye.gatech.edu
<b>Govt./Industry Member</b> Dr. Fern Hunt National Institute of Standards and Technology	Mathematical and Computational Sciences Division NIST Stop 8910 Gaithersburg, MD 20899-8910 <a href="http://math.nist.gov/mcsd/Staff/FHunt/index.html">http://math.nist.gov/mcsd/Staff/FHunt/index.html</a>	(301) 975-3887 (301) 990-4127 fern.hunt@NIST.gov
<b>Community College Member</b> Dr. Jacqueline Brannon Giles Houston Comm. Coll. Sys. Central College	13103 Balarama Drive Houston, TX 77099-2206 <a href="http://198.64.21.135/faculty/Giles/Jacqueline_Giles_Personal_Web_Page.html">http://198.64.21.135/faculty/Giles/Jacqueline_Giles_Personal_Web_Page.html</a>	(281) 495-5422 (281) 495-5422 (fax) jbgiles@aol.com
<b>Editor</b> Dr. Scott W. Williams State University of New York at Buffalo	Department of Mathematics 244 Mathematics Building University at Buffalo Buffalo, NY 14260-2900 <a href="http://www.math.buffalo.edu/~sww">http://www.math.buffalo.edu/~sww</a>	(716) 836-8948 (H) (716) 645-6284 ext156 (716) 645-5039 (fax) sww@buffalo.edu
<b>Executive Secretary</b> Dr. Leon Woodson Morgan State University	Department of Mathematics Morgan State University Baltimore, MD 21251-0001 <a href="http://jewel.morgan.edu/~woodson/">http://jewel.morgan.edu/~woodson/</a>	(443) 885-3776 (O) (410) 319-4323 woodson@morgan.edu
<b>Ex-Officio President Emeritus</b> Dr. Rogers J. Newman Southern University	7768 Emile Street Baton Rouge, LA 70807	(504) 771-5180 (O) (504) 771-4762 (fax)
<b>Executive Secretary Emeritus</b> Dr. Johnny Houston Elizabeth City College	Dept. of math and Computer Science Elizabeth State University Elizabeth City, NC 27909 <a href="http://www.ecsu.edu/ECSU/AcadDept/MathandCS/houston/Houston.html">http://www.ecsu.edu/ECSU/AcadDept/MathandCS/houston/Houston.html</a>	(252) 335-3361 (O) (252) 335-3651 jlhouston@mail.ecsu.edu

**Region A  
Southeast/West**

Alabama  
 Georgia  
 South Carolina  
 Florida  
 Virgin Islands  
 Puerto Rico  
 California  
 Montana  
 Any state not in B or C

**Region B  
Mid-Atlantic**

Delaware  
 District of Columbia  
 Kentucky  
 Maryland  
 New Jersey  
 New York  
 North Carolina  
 Pennsylvania  
 Virginia  
 W. Virginia

**Region C:  
Midwest/Southwest**

Arkansas  
 Louisiana  
 Missouri  
 Oklahoma  
 Illinois  
 Ohio  
 Mississippi  
 Tennessee  
 Texas

## **NAM Newsletter**

Department of Mathematics  
244 Mathematics Building  
University at Buffalo  
Buffalo NY 14260-2900

**Fall 2004**