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ETTA FALCONER

With sadness, we inform you of the death of Dr. Etta Zuber Falconer on September 19, 2002. For a biographies on Dr. Falconer see the NAM Newsletter (Summer 1996) and the web pages: <http://www.maa.org/summa/archive/falconer.htm>
http://www.math.buffalo.edu/mad/PEEPS/falconner_ettaz.html

The 2003 CLAYTOR-WOODARD Lecture

At the Annual Joint Mathematics Meetings NAM, AMS, and MAA, the speaker for NAM's major lecture is Dr. Overtoun Jenda Professor of Mathematics and Dean at Auburn University. Jenda is the author of 50 papers in Algebra. For more see his web page, <http://www.dms.auburn.edu/~jendaov/>

The 2003 COX-TALBERT Address, Reception, and Banquet

At the Annual Joint Mathematics Meetings, the speaker for NAM's Reception and Banquet is Dr. Raymond L. Johnson, Professor of Mathematics the University of Maryland.

TITLE: *The Maryland Experience: Building a community of African American graduate students*

TIME: 6:00 PM - 9:00 PM, Friday, January 17 TICKET PRICE: \$45

ABSTRACT: "Each year recently, African Americans have received five to ten doctorates in mathematics in the United States. Yet there are also examples of programs, initiated by Dr. Etta Falconer at Spelman College and Dr. Lee Lorch at Fisk University, that prepared minority students to do well in graduate work, and programs at the University of Michigan that led to the graduation of minority students."

"I will describe the process that led to the recruitment and graduation of a significant number of African American mathematics students at the University of Maryland and give my view of the essential elements for such a program."

CAARMS 2003 will be held in June at Purdue University

BLACKWELL-TAPIA PRIZE

The First Blackwell-Tapia Prize: Cornell University and the Mathematical Sciences Research Institute (MSRI) established a prize in honor of two mathematicians, an African American and a Hispanic American. The award was presented at the second Blackwell-Tapia Conference held at MSRI November 1 and 2, 2002. See article inside.

Dr. James Curry is **NAM's BLACKWELL LECTURER** for the 2003 MAA MathFest in Boulder, Colorado.

Joint NAM and Banneker Association conference in October 2003. See the article MET II inside.



Drs. Richard Tapia, Arlie Petters, and David Blackwell (photo by W.Massey)

Accepting Blackwell-Tapia Prize A. O. Petters — Nov 1, 2002 (Berkeley)

Cornell University and the Mathematical Sciences Research Institute (MSRI) established the Blackwell-Tapia a prize in honor of two mathematicians, an African American and a Hispanic American. The award was presented to African American Dr. Arlie O. Petters at the second Blackwell-Tapia Conference held at MSRI November 1 and 2, 2002. This is Dr. Petters acceptance speech.

I accept this prize with a deep sense of pride, especially since it honors two mathematical pillars in our community — Professors Blackwell and Tapia.

To my wife Marcia, thank you for your unconditional love and unwavering support.

I extend my gratitude to the organizing committee for bestowing this honor. Many thanks to the sponsors MSRI, Cornell University, and IPAM for recognizing the importance of the prize and endorsing it. In particular, David Einsenbud, Michael Singer, and Robert Megginson of MSRI, Carlos Castillo-Chavez of Cornell University, and the other members of the organizing committee: Fern Hunt and co-chairs Bill Massey and Juan Meza.

The Blackwell-Tapia prize would not have been possible if it were not for the vision and tireless efforts of Carlos Castillo-Chavez. Please join me in applauding him!

I am thankful to all my friends and colleagues for taking the time to attend this event. Your presence holds a special place in my heart.

* I dedicate this prize to those first-rate swimmers who could not go on swimming any more ... whose brilliant fire went out under the psychological choke of racism. I am deeply indebted and blessed that you have paved the way for us.

* I dedicate this prize to all those luminaries in the audience and in our community who have toiled in the face of little or no recognition. Your efforts are not in vain....

* I dedicate this prize to all the students, postdoctoral fellows, and early career professors in the audience and in our community ... that they may see the promise of a rewarding career in mathematics.... And as your older brother, I emphasize: Always relentlessly pursue excellence in your work and never forget to pass on freely your knowledge and experiences for the benefit of those who come behind you.

I am proud for all of us that the Blackwell-Tapia prize exists to honor mathematical excellence coupled with being a positive force for minority mathematicians.
Thank you.

**Photographs from the Blackwell-Tapia Conference
by W. Massey**



Clockwise
from top left:
Petters and Spergel,
Houston, Goward,
Horne, Flemming,
Hansen, Stovall and,
Morgan



A Mathematically Interesting Game II

We began this series of articles in the Fall 2002 Newsletter 33.3 with variants of the Tower of Hanoi. The games discussed can be played between individuals or with a computer. The games themselves are very simple; playing them is easy. Discovering the mathematics behind them is much more challenging; try your hand at it! Notice, however, lurking underneath the surface of each game is some interesting mathematics. Can you discover winning strategies, and can you prove mathematically that they are winning strategies?

Who took the last coin? (Also known as the game of Nim).

You have a collection of nickels, dimes, and quarters. You and your opponent take turns removing coins (you go first). The only restrictions are that each of you must, whenever your turn comes around, take at least one coin and take only one kind of coin. For example, you might take 1 dime, or 7 quarters, but you cannot take a dime and a quarter during a single turn.

The person who takes the last coin wins.

The game may be played online at: <http://www.csm.astate.edu/Nim.html>

For more details on the game also see: <http://www.math.toronto.edu/mathnet/games/games.html>

NAM Calendar

You can find 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>

- January 15-18, 2003 Joint Mathematics Meetings (NAM Events) Baltimore Convention Center, Baltimore, Maryland
- March, 2002 NAM Regional Faculty Conference on Research and Teaching Excellence at the Mathematical Sciences Research Institute in Berkeley, California.
- June 2003, CAARMS 9, Purdue University
- June 16-20, 2003 SIAM Annual Meeting (Diversity Day) Montreal, QC, Canada
- July 9-12, Twentieth Summer Topology Conference, Howard University
- July 31 - August 2, 2003 MAA MathFest (NAM Blackwell Lecture) Boulder, Colorado
- September 12, 2003 NCTM Annual Meeting San Antonio, Texas

NAM Board, Elections and Terms

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 can be followed modulo 3. In year $0 \pmod 3$ (example 2001) is the election Representative of Region C, Community College Representative, Secretary/Treasurer. In year $1 \pmod 3$ Representative of Region A, Government Industry Representative, President In year $2 \pmod 3$ Representative of Region C, Majority Institution Representative, Vice President. A call for nominations will be made in the Spring Issue of the Newsletter. Nominations should be made to the Editor by August 15 of the election year.

International Conference of Mathematical Sciences Medals for Best Young Africans

In 2003 there will be held the International Conference of Mathematical Sciences. At the conference will be the maiden award of *Medals for Best Young Africans*.

Venue: University of Agriculture, Abeokuta, Ogun State, Nigeria

Date: 16th November 2003 to 22nd November 2003

Invited Speakers: Prospective Medallists; Established African Mathematicians in Europe and USA; Other Established Mathematicians.

Background: The recently concluded International Congress of Mathematicians, ICM-2002 Beijing China, showed clearly that African mathematicians have a lot to do in order to make meaningful impact in terms of ICM general participation and World Mathematics Fields Medals Awards. I was also observed sadly enough that less than three percent of the participants in the ICM2002 are Africans. In order to promote the teaching, learning and research in all aspect of Mathematics among Africans, which will eventually enable African Mathematicians to make big impact on the world stage, the committee of African Mathematicians at Beijing 2002 decided to organise an International Conference of mathematical Sciences and the maiden Award of African Medals for Young African Mathematicians in 2003 at the University of Agriculture, Abeokuta, Nigeria. The award is open to ANY AFRICAN who has:

- (1) Obtained Ph.D. degree in any area of Mathematical Sciences;
- (ii) Who will not exceed 40 years of age in the year of the award (2003);
- (iii) Who has published reasonable number of papers in reputable journals;
- (iv) The candidate shall submit a maximum of 10 of his/her best publications and cv for assessment;
- (v) Individuals are free to apply;
- (vi) Individuals and institutions are free to nominate candidates for the awards.

The awards are likely going to be given in five broad areas (i.e. all AMS subject classifications will be grouped into these five areas - candidates should indicate in which subject area they wish to be considered; 1) Pure Mathematics; 2) Applied Mathematics (including Theoretical Physics); 3) Statistics (including Probability, Biometrics, etc.); 4) Computer Sciences (including Computer Engineering etc.); 5) Mathematics Education (and relevant subjects).

Abstracts for short contributed papers on any of the above classifications are also invited.

For more information, email, fax, or phone Professor Oluwole D. Makinde at the means given below. There is also a detailed announcement on line at:

<http://www.math.buffalo.edu/mad/Africa-today/2003.icms.html>

Contact:

Professor Oluwole D. Makinde; Applied Mathematics Department; University of the North;
Private Bag X1106; Sovenga 0727, South Africa
Tell: +27-15-2682459 (Office) Tel/Fax: +27-15-2912395 (Home) Cellphone: 0822005182
Fax: +27-15-2683075 (Office)
E-Mail: makindeo@unorth.ac.za; dmakinde@worldonline.co.za; dmakinde@yahoo.com

Dues \$15 - \$25

The cost of producing the newsletter have gone up. Please pay your dues. The rates are

STUDENT : \$15;

INDIVIDUAL : \$25;

INSTITUTIONAL : \$100.

There are more choices. There is a form on the last page of this newsletter.

MET Summit II

A National Conference on the Mathematical Education of Teachers

The Benjamin Banneker Association (BBA) and the National Association of Mathematicians (NAM) in cooperation with the other member societies of the Conference Board of Mathematical Sciences (CBMS) is pleased to announce MET Summit II - a second National Conference on the Mathematical Education of Teachers. MET Summit II will be held October 11-12, 2003 at the Hilton Crystal City at National Airport in Arlington, VA. The Conference will emphasize participation of Historical Black Colleges and Universities (HBCU's) and other minority serving institutions involved in the mathematical education of teachers.

MET Summit II will feature working sessions on cooperative programs, courses, activities and materials that will engage the participants in planning local implementation of the ideas and recommendations in the CBMS publication "The Mathematical Education of Teachers". Invited speakers and session leaders include Lee Stiff, Freeman Hrabowski III, Judy Sowder, Robert Devaney, Barbara Franklin, Carol Malloy, Kenneth Millett, Paul Sally, Karen King, Sue Parsons, Henry Gore, Jim Lewis and Ruth Heaton.

Participants should apply in teams. Preference will be given to teams that include a mathematician, a mathematics educator, a college or university administrator with responsibility for teacher preparation programs, a community college mathematics faculty member, and a K-12 school system person involved in mathematics teacher preparation or in-service activities. There will be a nominal team registration fee of \$100. We expect to be able to cover housing and meal costs for participants. We also expect to offer ten \$3000 ExxonMobil innovation grants which are intended to help participant teams plan local improvements in teacher education and to prepare proposals for more substantial support from local, state or national agencies.

Additional information and application forms will be available by March 15, 2003 on the BBA website at: <http://www.math.msu.edu/banneker> and the NAM website at: <http://jewel.morgan.edu/~NAM>. The Mathematical Education of Teachers book is on the CBMS website at: www.cbmsweb.org

MET Summit II is contingent on grants from the National Science Foundation; ExxonMobil Foundation; Texas Instruments, Inc.

The 2003 NSF-CBMS Regional Research Conferences

Request for Proposals for 2004 Conferences

These are now posted on the CBMS website www.cbmsweb.org/NSF. PLEASE VISIT.

American Institute of Mathematics Research Conference Center

The new AIM Research Conference Center (ARCC) will host week-long focused workshops in all areas of research mathematics. Proposals for workshops which will run in 2003 are now being solicited. Participation in previously-scheduled workshops is also available.

Details and applications can be found at: <http://www.aimath.org/ARCC/>

ARCC seeks to promote diversity in the research mathematics community. Proposals which include the participation of women, underrepresented minorities, junior mathematicians, and researchers at primarily undergraduate institutions are strongly encouraged.

Project NeXt: New Experiences in Teaching

Project NeXT (New Experiences in Teaching) is a professional development program for new and recent Ph.D.s in the mathematical sciences (including pure and applied mathematics, statistics, operations research, and mathematics education). It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. It also provides the participants with a network of peers and mentors as they assume these responsibilities. Each year, about sixty faculty members from colleges and universities throughout the country are selected to participate in a workshop preceding the MAA summer meeting, activities during the summer MAA meetings and the Joint Mathematics Meetings in January, and an electronic discussion network. Faculty for whom the 2003-2004 academic year will be the first or second year of full-time employment with significant teaching responsibilities at the college/university level are invited to apply to become Project NeXT Fellows.

The application deadline is April 11, 2003. For more information, see the Project NeXT Web site: <http://archives.math.utk.edu/projnext/>.

Project NeXT receives major funding from The ExxonMobil Foundation, with additional funding from The Dolciani-Halloran Foundation, The American Mathematical Society, The Educational Advancement Foundation, The American Statistical Association, The Association of Mathematics Teacher Educators, and the Greater MAA Fund.

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 16, 2003 from 2:00 to 4:00 p.m. in BCC 307 at the Joint Mathematics Meetings in Baltimore. 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 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. Kevin Charlwood; Dept. of Math & Statistics; Morgan Hall; Washburn University; Topeka, KS 66621 Phone: (785) 231-1010 ext. 1499; Fax: (785) 231-1089 (Label Fax clearly for "Kevin Charlwood"); e-mail: <zzcharlw@washburn.edu> AND Prof. Ken Ross; Department of Mathematics; University of Oregon; Eugene, OR 97403-1222 Phone: (541) 346-4721; Fax: (541) 346-0987 (Label Fax clearly for "Ken Ross"); e-mail: <ross@math.uoregon.edu>

Our poster sessions the past six 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 13, 2002. Preference will be given to those who did not earn a Ph.D. prior to 1997; 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.org/> before the Joint Meetings.

AAAS Meeting to Offer Strong Mathematics Program

The 2003 Annual Meeting of the American Association for the Advancement of Science, February 13-18, in Denver, CO will feature many outstanding expository talks by prominent mathematicians. These include the following three-hour symposia (and organizers) sponsored by Section A (Mathematics) of the AAAS:

Predictability and Randomness in Weather Forecasting

(Cecile Penland, Prashant Sardeshmukh, and Matthew Newman, NOAA-CIRES/Climate Diagnostics center)

Math Inside!... An Industrial View

(Brenda Dietrich, IBM Research and Fadil Santosa, University of Minnesota)

Game Theoretic Aspect of Internet Computation (Joan Feigenbaum, Yale University)

Mathematical Models for Traffic Flow: Phantom Jams and Real data

(Paul Nelson, Texas A & M University)

Opening the Mind with Mathematics

(Carson C. Chow, University of Pittsburgh)

Modelling the Internet and the World Wide Web

(Jennifer Tour Chayes and Christian Borgs, Microsoft Research)

Other symposia that will be of interest to the mathematical community include:

-*Challenges in the Statistical Analysis of Genome Data*

-*Science and Mathematics Education of American Indians and Alaskan Natives*

-*Face and Object Recognition in Man, Monkey, and Machine*

-*The Physics of Extra Dimension*

-*Security for Life: The Science Behind Security Technologies*

The above symposia are only a few of the 150 or so AAAS program offerings in the physical, life, social, and biological sciences. For further details about the 2003 AAAS program, see the November 1st, 2002 issue of Science.

AAAS annual meetings are the showcases of American science, and they encourage participation by mathematicians and mathematics educators. (AAAS acknowledges the AMS for its generous support.) In presenting mathematics-related themes to the AAAS Program Committee, I have found the committee to be genuinely interested in offering symposia on mathematical topics of current interest. Thus, Section A's Committee seeks organizers and speakers who can present substantial new material in an accessible manner to a large scientific audience. Toward this end, I invite you to attend our Section A Committee business meeting 7:45– 10:45 p.m. Friday, February 14th, 2003 in the Molly Brown Room of the Marriott. I invite you also to send me, and encourage your colleagues to send me, symposia proposals for future AAAS annual meetings.

Support AMUCHMA

For 26 issues, the African Mathematical Union's Commission on the History of Mathematics in Africa (AMUCHMA) has revealed new and interesting mathematical material to the world of history, archeology, and education. The reproduction and distribution of the first 24 issues of the AMUCHMA Newsletter counted with the generous support from the Research Department of the Swedish International Development Agency (SIDA-SAREC). The contract with SIDA-SAREC came to an end and there is a call for support financially AMUCHMA's activities and/or to suggest alternative sources of financing.

The newsletter is free and accessible on the website: http://www.math.buffalo.edu/mad/AMU/amuchma_online.html

Summer Possibilities

NAM Summer Possibilities Web Site

Recall that for several years, NAM has had a web site with listings of open positions. We are now adding to that a web site for summer possibilities - undergraduate students, graduate students, and faculty, teachers and researchers. This process is open to advertisers in the Newsletter. The advertisements appear online four to six weeks before they appear in the Newsletter.

Go to the editor's NAM web site within MAD: <http://www.math.buffalo.edu/mad/NAM/>

The EDGE - Graduating Senior Summer Program

The EDGE Program is designed to strengthen the ability of women and minority students to successfully complete graduate programs in the mathematical sciences. In 2003, the program will be held for the first time at Pomona College in Claremont, CA, June 2-27. The summer program consists of core courses in analysis and algebra/linear algebra, as well as minicourses, guest lectures and panel discussions. Applicants to the program should be women who are (i) graduating seniors who have applied to graduate programs in the mathematical sciences, (ii) recent recipients of undergraduate degrees who are now entering graduate programs, or (iii) first-year graduate students. For details and an application form, visit the program's web site: <http://www.edgeforwomen.org>

DIMACS Reconnect '03 Conferences Current Research Relevant to the Classroom

The Reconnect '03 Conferences sponsored by DIMACS (the Center for Discrete Mathematics and Theoretical Computer Science) are geared towards exposing faculty teaching undergraduates to current research topics relevant to the classroom, involving them in writing materials useful in the classroom and reconnecting them to the mathematical sciences enterprise by exposing them to new research directions and questions. The three programs: "Some Current Problems in Coding Theory" at Salem State College, June 15-21, 2003; "Centrality in Graphs with Applications to the Theory of Location of Facilities" at Illinois Institute of Technology, July 16-13, 2003; "Internet Algorithms: Modeling the Web as a Graph, with Applications to Information Gathering and Search" at DIMACS / Rutgers University, August 10-16, 2003.

Applicants accepted to participate will receive lodging and meals through NSF funding. For more information or an application form, visit our web site at <http://dimacs.rutgers.edu/reconnect/>.

Or, contact the Reconnect Program Coordinator, at reconnect@dimacs.rutgers.edu or (732) 445-5928.

NSF-Essex Funded Workshops

Two-week Summer Institutes July 14-25, 2003 and July 2004 and Academic Year Activities for Science, Mathematics, and Technology College Faculty and Secondary Teachers at The Essex Campus of The Community College of Baltimore County Baltimore, MD 21237

Offered through National Science Foundation funding

Purposes: To provide 20 college faculty and secondary teachers with two consecutive summer workshops to develop their skills in using technology in teaching science, mathematics, or technology. To provide supportive opportunities for developing course-related websites and instructional multimedia presentations using current Windows software packages such as Macromedia Dreamweaver*, Macromedia Flash*, Adobe Photoshop* and Macromedia Authorware*. To provide in-person and online support in the use of these technologies during the 2003-2004 and 2004-2005 academic years and two-week summer institutes, including how to create webpages, graphics, sound files, videos, and animations, and how to incorporate multimedia into course materials. To develop and share Multimedia Learning Activities (MLAs) for classroom use.

PARTICIPANT SUPPORT: Actively participating faculty and teachers will receive a stipend of \$60 per day for the summer institute (8:00AM - 3:00PM). (Total Value \$600). In addition, each participant who completes

two summer workshops will receive Macromedia or other software for Windows valued at \$800. A very limited amount of funding is available for faculty/teachers to reside at a local hotel during the workshops. No transportation funds are available.

Graduate Credits Available:

For Additional Information call or email: (410) 780-6768 (CCBC Essex Mathematics Department) or ssorkin@cbbcmd.edu.

Preference will be given to applicants who apply by March 5, 2003. However, applications will continue to be accepted after that date for any available spaces. Accepted participants and alternates will be notified approximately April 5, 2003.

Graduate School Opportunities

Marquette University

Arnold L. Mitchem Dissertation Fellowships

The Department of Mathematics, Statistics and Computer Science at Marquette University invites applications for the Arnold L Mitchem Dissertation Fellowship Program. Mitchem Fellowships seek to help increase the presence of currently underrepresented racial and cultural groups in the U.S. professoriate by supporting advanced doctoral candidates during completion of the dissertation. The fellowships provide one year of support for doctoral candidates well into the writing stage of their dissertation work who are U.S. citizens currently enrolled in U.S. universities. Mathematics and mathematics education, statistics, and computer science are among the areas supported. For information, email mitchem.fellowship@marquette.edu, or visit: <http://www.marquette.edu/mitchem/>

Texas A&M University

Department of Industrial Engineering Graduate Funding Available

The Texas A&M University industrial engineering graduate program ranks among the top programs in the nation. Nationally recognized faculty provide expertise across a broad range of industrial engineering research areas including manufacturing/production systems, operations research, and logistics. M.S., M. Eng., and Ph.D. degrees are offered. Flexible degree plans are designed to meet individual interests and career objectives. Fellowships and assistantships are available on a competitive basis for qualified students, with preference given to those applying for the doctoral program. Texas A&M welcomes applications from women and underrepresented groups.

For more information about programs or to request an application, please contact:

Director of Graduate Programs

Department of Industrial Engineering

3131 TAMU

College Station, TX 77843-3131

Phone: 979-845-5585

E-mail: judym@tamu.edu

Visit our website at <http://ie.tamu.edu>

NAM Regional Conference on Research and Teaching

The NAM Regional Conference on Research and Teaching will meet March 28th and 29th, 2003 at The Mathematical Sciences Research Institute in Berkeley, California. For more information see the NAM head office web site: <http://jewel.morgan.edu/~nam/> or contact the Executive Secretary of NAM.

Job Openings

NAM Job Openings Web Site

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, since November 15, 2002. Go to the editor's NAM web site within MAD:
<http://www.math.buffalo.edu/mad/NAM/>

Bowling Green State University

Department of Mathematics and Statistics

Director of Service Mathematics

The Department of Mathematics and Statistics at Bowling Green State University invites applications from outstanding candidates for the Director of Service Mathematics, a tenure-track or tenured position at the rank of Assistant Professor, Associate Professor, or Professor starting August, 2003. The Director will be responsible for the coordination of various precalculus mathematics and statistics courses and for the supervision of instructors and teaching assistants. Candidates must demonstrate a willingness to experiment with innovative approaches to the teaching of large population (but small class size) entry level courses. Duties also include teaching one or two courses each semester. Rank, duties, and salary are negotiable and will be commensurate with training and experience.

Candidates must hold a doctorate in mathematics, mathematics education, or a related field, conduct scholarly research in mathematics or mathematics education, interact with current faculty and students, and contribute to the undergraduate and graduate teaching mission of the department. The department offers the bachelors in mathematics and mathematics education to approximately 200 majors. The graduate program has 60 full-time students with master's programs in pure mathematics, statistics, applied mathematics, applied statistics, and the teaching of mathematics. The doctoral program has a strong emphasis on statistics and pure mathematics. The department graduates 3-5 doctorates each year. Our faculty are involved in a broad range of research. For further information see www.bgsu.edu/dept/math/

The city of Bowling Green is located in northwest Ohio within a half-hour drive of Toledo, a large metropolitan area, yet offers a small town atmosphere. Members of the department frequently conduct research in seminars at the University of Michigan and The Ohio State University, which are within 100 miles of BGSU. Bowling Green public schools are among the best in the region. Cultural and social activities at the University and in the Toledo area make Bowling Green one of the most desired locations in Ohio. The cost of living is relatively low and the State of Ohio offers one of the best retirement and benefits packages in the nation. To apply send curriculum vitae, three current letters of reference, and official transcripts showing the highest degree earned to:

Search Committee

Department of Mathematics & Statistics

Bowling Green State University

Bowling Green, Ohio 43403-0221

BGSU is an Equal Employment Opportunity/Affirmative Action employer and encourages applications from women, minorities, veterans, and individuals with disabilities

Franklin & Marshall College

Visiting Assistant Professor of Mathematics: a full-time, one-year position renewable for a second on evidence of good teaching beginning fall 2003. Ph.D. in Mathematics and/or Statistics. We seek applicants eager to teach and mentor undergraduates in a liberal arts setting. Excellence in teaching mathematics is the primary criterion for selection; other considerations include continued scholarly activity and the ability to contribute to our general education program. A normal teaching load is five courses per year.

Send letter of application, AMS cover sheet, Curriculum Vita, list of courses taught, (including the applicant's responsibilities), three letters of recommendation, (at least two that address teaching ability), and copies of undergraduate and graduate transcripts, to: Annalisa Crannell, Department of Mathematics, Franklin & Marshall College, Lancaster PA 17604-3003.

See <http://www.FandM.edu/Departments/Mathematics/Mathematics.html>. We will begin reading applications on February 18, 2003. An affirmative action employer, Franklin and Marshall is committed to cultural pluralism through the hiring of minorities and women.

Gettysburg College

Tenure-Track, Assistant Professor Mathematics

Gettysburg College invites applications for a tenure-track, assistant professor position in mathematics beginning August 2003. Applicants must have a Ph.D. in mathematics, applied mathematics, or statistics or expect to complete all requirements for the degree by September 2003. Promise of excellence in teaching and commitment to a vigorous research program are essential. Applicants from all branches in the mathematical sciences will be considered; applicants who have an active interest and demonstrated expertise in applied or computational mathematics or statistics are especially encouraged to apply. Preference will be given to an individual who is willing to teach a broad range of undergraduate mathematics courses and who has the desire 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 2,400 students. Gettysburg College is committed to creating a more diverse campus environment. As a part of that process, the College gives strong consideration to candidates from historically underrepresented groups. The position includes an attractive benefits package.

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 to:
Mathematics Search Committee; Department of Mathematics
Gettysburg College; Gettysburg, PA 17325
Also arrange for the committee to receive three letters of recommendation addressing teaching effectiveness and research potential.

University of Pittsburgh

Tenure stream Mathematics

The Department of Mathematics at the University of Pittsburgh invites applications for two tenure-stream Assistant Professor positions beginning with the Fall Term 2003, pending budgetary approval. One position would be in Algebraic Geometry & Representation Theory or in Number Theory & Cryptography, and the other position in Applied Mathematics. As we seek excellence in teaching and research, the successful applicants should demonstrate substantial research accomplishment and dedication to teaching. To guarantee consideration, applicants should send a vita, three letters of recommendation, a research statement and evidence of teaching accomplishments by December 14, 2002. Send materials to Search Committee, Department of Mathematics, University of Pittsburgh, Pittsburgh, PA 15260. 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.

St.Olaf College

Mathematics

The St. Olaf College Department of Mathematics invites applications for a tenure-track, Assistant Professor position starting in September, 2003. A Ph.D. in mathematics or closely related field is required by the date of appointment. Highest consideration will be given to candidates with demonstrated effectiveness in teaching at the undergraduate level and an interest in undergraduate research. All areas of mathematics will be considered.

Send letter of application, CV, graduate school transcripts, three letters of reference (at least two of which directly address teaching), and separate statements about teaching philosophy and research program to Matthew Richey; Chair, Department of Mathematics; Attn: Mathematics Hiring; St. Olaf College, Northfield, MN 55057

No electronic submissions will be accepted. Please indicate if you will be present at the joint meeting of the AMS/MAA in Baltimore during January, 2003.

Review of completed applications will begin on December 1, 2002.

Preliminary interviews will be held at the Baltimore meetings;

on-campus interviews will occur during February, 2003.

St. Olaf College, is located approximately 40 miles south of Minneapolis/St. Paul. It enrolls about 3000 students. Of last year's graduates, approximately 60 had a mathematics major, 15 had a statistics concentration, and 12 had a computer science concentration. For more information on the department, please visit us at www.stolaf.edu/depts/math/jobs. A liberal arts college affiliated with the Lutheran Church (ELCA), St. Olaf College (www.stolaf.edu) is an affirmative action/equal opportunity employer and actively seeks diversity in its students, faculty, and staff.

St. Olaf College

Statistics

St. Olaf College Department of Mathematics invites applications for a tenure-track, assistant professor starting in Fall 2003. A doctorate in statistics or closely related field is required by the date of appointment. Courses to be taught range from introductory statistics courses through mathematical statistics, experimental design, linear models and advanced seminars. Highest consideration will be given to applicants with a demonstrated effectiveness and commitment to teaching undergraduates, applied experience, and research interests suitable for engaging in undergraduate research. The St. Olaf Statistics program graduates 16-20 students each year, many of whom pursue graduate work in statistics and related fields. Faculty are encouraged to participate in interdisciplinary and undergraduate research.

Send letter of application, CV, graduate transcripts, statements on your teaching philosophy and research along with 3 letters of recommendation (2 of which specifically address your teaching) to:

Dr. Julie Legler; Chair, Statistics Search Committee; Department of Mathematics; St. Olaf College; 1520 St. Olaf Ave. Northfield, MN 55057

Completed applications will be considered beginning October 15, 2002 and continue until the position is filled.

St. Olaf College, located approximately 40 miles south of Minneapolis/St. Paul, enrolls about 3000 students. Of last year's graduates, approximately 60 had a Mathematics major and 17 had a Statistics concentration. St. Olaf's location midway between Minneapolis/St. Paul and Mayo Clinic offers additional opportunities for collaboration and research.

A liberal arts college affiliated with the Lutheran College (ELCA), St. Olaf College www.stolaf.edu is an affirmative action/equal opportunity employer and actively seeks diversity in students, faculty and staff.

Northern Kentucky University

Mathematics Education and Statistics.

Applications are invited for two tenure-track positions (secondary mathematics education and statistics) at the assistant professor level beginning August 2003. Higher rank and/or a third position are possible. Doctorate required. High quality teaching is the Department's uppermost priority; continued scholarly activity and service are required. Oral and written competency in English is mandatory.

For further information about the Department, the University, or the positions, see <http://www.nku.edu/~math/>. Send letter of application, curriculum vitae, transcript, and three letters of recommendation to: Kirsten Fleming, Chair, Department of Mathematics and Computer Science, Northern Kentucky University, Highland Heights, KY 41099. Candidates will be invited to campus beginning in December 2002, continuing until the positions are filled. NKU is located in the Cincinnati metropolitan area and serves approximately 14,000 students, including some 400 mathematics, mathematics education, and computer science majors. NKU is an equal opportunity/ affirmative action employer.

SUNY at Stony Brook, NY

Mathematics Department

Mathematics Education: Educator needed for tenure or tenure track position in secondary teacher preparation program, involving both undergraduate and graduate students. Must have doctorate in Math. Ed, or be abnd, with doctorate expected by August, 2003. Must have strong potential for creative leadership in mathematics education, including research and administration. Familiarity with secondary education requirements in New York State preferred. Initial duties include teaching two courses per semester, research and publication in mathematics education, and some administration; teaching duties will decrease as administrative duties increase to full leadership of the mathematics education program (currently about 25 undergraduates per year, and an additional 25 graduates per year expected starting fall 2003). Salary and rank commensurate with education and experience. Review will begin 12/15/02.

Send CV and at least 3 letters of reference to:

Math. Ed. Director Search, SUNY at Stony Brook, Stony Brook, NY 11794-3651.

The State University of New York at Stony Brook is an Equal Opportunity/Affirmative Action Employer.

University of Tennessee at Knoxville

Mathematics

The Mathematics Department of the University of Tennessee seeks to fill tenure-track positions at the assistant professor level. A Ph.D. is required. Some postdoctoral experience is preferred but not required. Substantial research promise and dedication to teaching are paramount. Employment begins August 1, 2003. Applicants with research experience in any area of mathematics are encouraged to apply, but preference will be shown those in geometric topology and computational applied mathematics. Interested applicants should arrange to have a vita, three reference letters, a research statement (including abstracts), and evidence of quality teaching sent to Professor John B. Conway, Search, Mathematics Department, University of Tennessee, Knoxville, TN 37996-1300. Electronic applications are not acceptable. Use of the AMS application form is appreciated. Review of applications will begin December 1 and will continue until the positions are filled. Information about the department can be found at: <http://www.math.utk.edu/>.

UT Knoxville is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

The University of Texas at Austin **Department of Mathematics**

Openings for Fall 2003 include:

(a) Instructorships, some that have R.H. Bing Faculty Fellowships attached to them and others that are VIGRE Instructorships, and (b) four positions at the tenure-track/tenure level.

by August 26, 2003. Other factors being equal, preference will be given to those whose doctorates were conferred in 2002 or 2003. 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 \$44,000, 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 \$40,000, 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. 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 or TICAM 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 e-mail (address: **instructor@math.utexas.edu**) 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/tenure 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 e-mail (address: **recruit@math.utexas.edu**) 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, 2002. The University of Texas at Austin is an equal opportunity employer.

SMITH COLLEGE

Department of Mathematics

Statistics

The Mathematics Department of Smith College invites applications for a tenure-track position, at the level of assistant professor, to begin in the fall of 2003. Candidates must have a Ph.D. in statistics or probability and must provide evidence of excellent teaching and an active research program. Experience teaching applied and mathematical statistics is strongly preferred. Send a curriculum vitae, a description of your research program, a statement of teaching experience and philosophy, and arrange to have three letters of recommendation sent to:

Statistics Search Committee, Clark Science Center
Smith College, Northampton, MA 01063.

Applications will be reviewed as they are received and will be considered until the position is filled. Please indicate if you will attend the Joint Statistics meetings in New York. Smith College is an equal opportunity employer encouraging excellence through diversity.

Temple University

Associate to Full Professor

The Department of Mathematics in the College of Science and Technology at Temple University invites applications for one or more open faculty positions at the associate-to-full-professor level. More junior candidates with significant postdoctoral experience are also encouraged to apply.

Preference will be given to applicants with outstanding research credentials in the areas of (1) the mathematics of materials science, or (2) nonlinear partial differential equations. Exceptional candidates in other areas will also be considered. A demonstrated commitment to excellence in teaching is required. The successful candidate will be expected to teach both undergraduate and graduate courses, and to supervise Ph.D. thesis research.

To apply, please send the AMS cover sheet, a CV, and other supporting documents to: Prof. E. S. Letzter, Chair, Personnel Committee, Department of Mathematics, Temple University, Philadelphia, PA, 19122. Also arrange to have at least three letters of reference sent separately to this address; one (or more) of these letters should explicitly address teaching qualifications.

In addition, applicants are requested to fill out the electronic cover sheet at:

<http://www.math.temple.edu/jobs>.

We will begin reviewing applications in early November, with priority given to applications received before December 1. Temple University is an Equal Opportunity/Affirmative Action employer. Applications are strongly encouraged from individuals in groups under-represented in the mathematical sciences.

Guilford College

Tenure-Track, Assistant Professor Mathematics

Guilford College, a private liberal arts college affiliated with the Society of Friends, invites applications for a tenure-track position in mathematics beginning in August of 2003. Completion or imminent completion of a Ph.D. in mathematics is required. Interest in and ability to teach creatively in lower-level courses such as pre-calculus, elementary statistics, mathematics for teachers, and mathematics for the liberal arts through upper-level courses for mathematics majors is required. The Mathematics Department teaches courses that service science, business, education, and computer studies students among others, and all candidates must be committed to working effectively with the broad range of student interests and abilities this encompasses. Preference will be given to candidates with interests in computer studies, interdisciplinary teaching, and directing independent studies of various sorts (including undergraduate research). Responsibilities include teaching a minimum of 12 credit hours per semester, continuing scholarly activity (broadly interpreted), advising students, college committee service, and teaching as needed in the evening continuing education program.

A complete application includes a letter of interest, a personal statement on teaching, a vita, graduate transcripts, and three letters of recommendation (at least two of which explicitly support teaching excellence or its potential). All materials should be sent to Search Committee, Department of Mathematics, Guilford College, 5800 W. Friendly Ave., Greensboro, NC 27410. Application materials should arrive by February 21, 2003 for first consideration. Guilford College seeks applications from people representative of diversity based on age, race, gender, sexual orientation, disabilities, ethnicity, religion, national origin, career and life experiences, socio-economic background, geographic roots, as well as members of the Society of Friends. EOE/AA

Mississippi State University

Department of Mathematics & Statistics

Applications are invited for tenure-track Assistant/Associate Professor position starting August 2003. Requirements include doctoral degree in an area of the mathematical sciences, demonstrated success or strong potential for research, and commitment to effective undergraduate and graduate teaching. Applicants should submit a resume with a completed AMS Standard Cover Sheet (available at **<http://www.ams.org/employment>**), transcripts, summary of research plans, and three letters of recommendation (at least one of which addresses teaching) to: Chair, Search Committee, Department of Mathematics & Statistics, P.O. Box MA, Mississippi State, MS 39762. For further information see **www.msstate.edu/dept/math** or e-mail **ebanks@math.msstate.edu**. The screening process will continue until the position is filled. The department especially welcomes applications from women and minority candidates. Mississippi State University is an AA/EOE.

Carnegie Mellon University

Department of Mathematical Sciences

Center for Nonlinear Analysis

The Center for Nonlinear Analysis expects to make several Post-Doctoral appointments for 2002-03 in the area of applied analysis. These will be one- or two-year joint appointments by the Center and Department of Mathematical Sciences. Recipients will teach at most two courses per year. Applicants should send a vita, list of publications, a statement describing current and planned research, and arrange to have at least three letters of recommendation sent to the committee. The deadline for applications is January 17, 2003. All communications should be addressed to: Post-Doctoral Appointments Committee, Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. Carnegie Mellon University is an Affirmative Action/Equal Opportunity Employer.

Department of Mathematical Sciences

Tenure-Track Position 1

The Department of Mathematical Sciences at Carnegie Mellon University invites applications for a tenure-track job at the level of Assistant Professor. The position is in Discrete Mathematics or Probability Theory. Candidates must demonstrate outstanding promise or excellent accomplishments in research in one of these areas, as well as an ability to be an effective teacher.

Applicants should send by January 17, 2003 a curriculum vitae, list of publications, a statement describing current and planned research, and arrange to have at least three letters of recommendation sent to: Tenure-Track Search Committee, Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. Applicants are encouraged to include the completed AMS standardized application form available at www.ams.org. The Department of Mathematical Sciences is committed to increasing the number of women and minority faculty. Carnegie Mellon University is an Affirmative Action /Equal Opportunity Employer and encourages applications from women and minorities.

Department of Mathematical Sciences

Tenure-Track Position 2

The Department of Mathematical Sciences at Carnegie Mellon University invites applications for the position of tenure-track Assistant Professor, starting in the Fall of 2003. The position is in Optimization and Mathematical Programming. Preference will be given to candidates whose research is in continuous optimization with a strong computational component. Candidates must demonstrate outstanding promise or excellent accomplishments in research in the above areas, as well as an ability to be an effective teacher.

Applicants should send by January 17, 2003 a curriculum vitae, list of publications, a statement describing current and planned research, and arrange to have at least three letters of recommendation sent to: Tenure-Track Search Committee, Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. Applicants are encouraged to include the completed AMS standardized application form available at www.ams.org. The Department of Mathematical Sciences is committed to increasing the number of women and minority faculty. Carnegie Mellon University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

Department of Mathematical Sciences

Zeev Nehari Visiting Assistant Professorship

The position is available for a period of three years, beginning in September 2003, and carries a teaching load of three courses during the academic year. Applicants are expected to show exceptional research promise, as well as clear evidence of achievement and should have research interests which intersect those of current faculty of the Department. Applicants should send a curriculum vitae, list of publications, a statement describing current and planned research, and arrange to have at least three letters of recommendation sent to: Appointments Committee, Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213.

NATIONAL ASSOCIATION OF MATHEMATICS MEMBERSHIP FORM (FOR NEW APPLICATIONS AND ANNUAL MEMBERSHIP RENEWAL)

MEMBERSHIP CALENDAR YEAR: JANUARY 1 –DECEMBER 31

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INSTITUTION/EMPLOYER _____

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SELECT APPROPRIATE MEMBERSHIP TYPE

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INDIVIDUAL : \$25 CONTRIBUTING : \$50 SUSTAINING : \$75

INSTITUTIONAL : \$100 LIFE : \$400

PLEASE RETURN THIS COMPLETED FORM AND MEMBERSHIP DUES TO :

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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/NAM-index.html>

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THE EDITOR

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