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5 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/>

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6 NAM VP Runs for AMS Committee

Nathaniel Dean, Vice President of NAM, is a candidate for the Nominating Committee for the AMS. A description of the election process and biographies of candidates appear in the Notices (V49, No. 8, pp. 968-981). The same information can be accessed on the web at <http://www.ams.org/ams-governance> under the heading Elections.

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9 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.

The First Blackwell-Tapia Prize

The Mathematical Sciences Research Institute in Berkeley and Cornell University has established the Blackwell-Tapia Award in honor of David Blackwell and Richard A. Tapia, distinguished mathematical scientists who have been inspirations to more than a generation of African American and Hispanic American students and professionals in the mathematical sciences. The award will be presented in even numbered years. The prize will be presented every other year to a mathematical scientist who has contributed significantly to his or her field of expertise, and who has served as a role model for mathematical scientists and students from under-represented minority groups or contributed in other significant ways to the addressing of the problem of the under-representation of minorities in mathematics.

At the second Blackwell-Tapia Conference November 1 and 2, 2002, the first recipient of the Blackwell-Tapia Award will be Dr. Arlie O. Petters. Dr. Petters is the William and Sue Gross Associate Professor in the Department of Mathematics at Duke University, where he works on problems in mathematical physics. His current research interests include the development of a rigorous mathematical theory of light deflection in gravitational fields and the investigation of the observational consequences of the theorems in such a theory. His many awards and honors include Duke's Bass Chair in Recognition of Excellence in Research and Teaching, a National Science Foundation Faculty Early Career Award, an Alfred P. Sloan Research Fellowship, and induction into the Hall of Fame of Hunter College of the City University of New York.

Dr. Petters emigrated from Belize to the United States in 1979 and became a U.S. citizen in 1990. After receiving his Bachelor's and Master's degrees in mathematics and physics from Hunter College at C.U.N.Y, he won a Bell Laboratories Cooperative Research Fellowship to continue his graduate studies. He did his doctoral work in mathematics at MIT and Princeton, receiving his Ph.D. from MIT in 1991 under the direction of Bertram Kostant (MIT) and David Spergel (Princeton). His thesis title was Singularities in Gravitational Microlensing. After five years on the mathematics faculty of Princeton, he accepted the William and Sue Gross Chair at Duke, and became Duke's first tenured African American in mathematics.

A popular and effective advisor and mentor of undergraduates, Dr. Petters was presented the 1996 Service Award of the Princetonians of Color Network. He is a frequent guest speaker at events for minority students at all levels from elementary through graduate school. The excitement with which he describes his work is infectious. As a co-organizer for the Seventh Conference for African American Researchers in the Mathematical Sciences, held at Duke in 2001, he has helped bring together minority professionals with graduate students to help foster mentoring relationships and provide the students with evidence that others from backgrounds like their own are succeeding in mathematics-based fields.

The prize will be presented at a conference to be held at the Mathematical Sciences Research Institute on November 1-2, 2002.

A Mathematically Interesting Game

The game is known as The Tower of Hanoi and comes as a legend from Asia.

The Legend. In an ancient city in Southeast Asia, so the legend goes, monks in a temple have to move a pile of 64 sacred disks from one location to another. The disks are fragile; only one can be carried at a time. A disk may not be placed on top of a smaller, less valuable disk. And, there is only one other location in the temple (besides the original and destination locations) sacred enough that a pile of disks can be placed there.

So, the monks start moving disks back and forth, between the original pile, the pile at the new location, and the intermediate location, always keeping the piles in order (largest on the bottom, smallest on the top). The legend is that, before the monks make the final move to complete the new pile in the new location, the temple will turn to dust and the world will end. Is there any truth to this legend?

With 3 disks, it can be done in 7 turns. The three disk version of the story survived thousands of years in oral tradition as a challenge to problem solving with psychological revelations:

Wolf, Goat, and Cabbage: A pilgrim is traveling with a wolf, a goat, and a head of cabbage. He arrives at a stream and a canoe which carry the farmer and at most one of his possessions. As the wolf will eat the goat (but not the cabbage) and the goat will eat the cabbage. How does the farmer transport his possessions across the river.

The Game. There's a game based on this legend. You have a small collection of disks and three piles into which you can put them (in the physical version of this game, you have three posts onto which you can put the disks, which have holes in the centre). The disks all start on the leftmost pile, and you want to move them to the rightmost pile, never putting a disk on top of a smaller one. The middle pile for intermediate storage.

There is a connection between this game and breaking very large codes: Scott W. Williams, *Dynamics on the irrationals*, Discrete Math and Theor. Comp. Sci. 34 (1997), N. Dean ed., 83-103.

There is also a connection between this game and the problem of finding a “Hamiltonian path” along the edges of a cube and its higher-dimensional analogues, see
<http://mathworld.wolfram.com/HamiltonianPath.html>

Support AMUCHMA

For 24 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.

Thanks to Scott Williams, the English language edition of all issues of the **AMUCHMA Newsletter** is also accessible for free on the following website:

http://www.math.buffalo.edu/mad/AMU/amuchma_online.html

Minesweeper P vs NP

Very strong connections were recently revealed between a famous computer game and one of the famous \$1,000,000 mathematics problems of the Clay Institute. The game is Minesweeper and the problem is P versus NP problem.

The Minesweeper game is delivered with most Microsoft Windows operating systems. In that game, a grid of cells is presented to the player. If the player probes a cell with a mine, the game is lost. If the player probes a cell without a mine, the player learns the number of mines that are adjacent to the probed cell. This information can often be used to choose another cell for probing without fear it has a mine. The game is won when every cell without a mine has been probed.

What Richard Kaye proved is that the minesweeper game is essentially equivalent in complexity to any of a wide range of known natural and important problems in the literature called *NP-complete* problems.

The Clay Institute <http://www.claymath.org/prizeproblems/pvsnp.htm> offers one million dollars for solving The P versus NP Problem. here is what their web site has on P versus NP:

Suppose that you are organizing housing accommodations for a group of four hundred university students. Space is limited and only one hundred of the students will receive places in the dormitory. To complicate matters, the Dean has provided you with a list of pairs of incompatible students, and requested that no pair from this list appear in your final choice. This is an example of what computer scientists call an NP-problem, since it is easy to check if a given choice of one hundred students proposed by a coworker is satisfactory (i.e., no pair from taken from your coworker's list also appears on the list from the Dean's office), however the task of generating such a list from scratch seems to be so hard as to be completely impractical. Indeed, the total number of ways of choosing one hundred students from the four hundred applicants is greater than the number of atoms in the known universe! Thus no future civilization could ever hope to build a supercomputer capable of solving the problem by brute force; that is, by checking every possible combination of 100 students. However, this apparent difficulty may only reflect the lack of ingenuity of your programmer. In fact, one of the outstanding problems in computer science is determining whether questions exist whose answer can be quickly checked, but which require an impossibly long time to solve by any direct procedure. Problems like the one listed above certainly seem to be of this kind, but so far no one has managed to prove that any of them really are so hard as they appear, i.e., that there really is no feasible way to generate an answer with the help of a computer. Stephen Cook and Leonid Levin formulated the P (i.e., easy to find) versus NP (i.e., easy to check) problem independently in 1971.

NAM Calendar

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

- October, 2002 NAM Undergraduate MathFest XII Southern University, New Orleans, Louisiana
- November 1-2 Blackwell-Tapia Conference MSRI
- November 14-17, 2002 AMATYC Annual Conference, Phoenix, Arizona
- 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 to be announced
- June 2003, CAARMS 9, Purdue University
- June 16-20, 2003 SIAM Annual Meeting (Diversity Day) Montreal, QC, Canada
- July 31 - August 2, 2003 MAA MathFest (NAM Blackwell Lecture) Boulder, Colorado
- September 12, 2003 NCTM Annual Meeting San Antonio, Texas

NAM's Blackwell 2002 Lecture

At the MAA 2002 MathFest (Burlington, Vermont August 2000), NAM held its David Blackwell Lecture. Dr. Isom Herron spoke on *Random Walks, Diffusion, and Energy Decay*. Herron earned a B.S. from Massachusetts Institute of Technology. In 1973 he earned a Ph.D. from The Johns Hopkins University. His thesis was *A Fluid dynamical Theory for the Motion of a Particle Undergoing Centrifugation*. Dr. Isom Herron has taught Mathematics at Howard University and is presently Full Professor of Mathematics at Rensselaer Polytechnic Institute.

Shown below at MAA MathFest (l-r) Drs Johnny Houston, Nathaniel Dean, Isom Herron, Donald St. Mary.



Photo by Giles

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.

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>

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.

An Interview with Jacqueline B. Giles

by Spencer Small, Cleveland State University

Jacqueline B. Giles, 58, said of her third trip to Nigeria, "It was the best trip of all." In addition to her professional career as a college mathematics professor in Houston, Giles has spent part of the last four years taking various trips to Nigeria to participate in international political events.

On Giles' third trip to Nigeria in 2001, she presented her research entitled "Mathematics and Democracy: The Case for Quantitative Literacy in the U.S. and Nigeria, A Comparative Study." Her goal is to tie universities in the U.S. with universities in Nigeria in an attempt to "build educational institutions to educate not only the higher classes, but to educate the middle and lower classes' to allow the poor to have access to the higher social echelon," she said.

During Giles' first trip in 1999, she traveled with a delegation to witness the ceremony that marked the hand over of the military government to the democratically elected Olusegun Obasanjo.



Then in 2000, Giles traveled to Africa with former President Bill Clinton. She took off on “Airforce 2” from Andrews AirForce Base for the 16 hour flight. After landing in Nigeria to meet with President Obasanjo, they traveled to Tanzania for a peace conference and finally to Cairo, Egypt before returning to the U.S.

Giles feels she has already peaked in her professional career as a mathematician because she is a member of the board of directors on the “two most powerful boards in the U.S.” in her field. As a member of the board of directors of the Mathematical Association of America (MAA) and the National Association of Mathematics (NAM), Giles travels all over the country to various mathematics conferences every year.

“Being politically astute and having the ability to communicate and negotiate\’85has helped me be of some benefit to the mathematics community,” said Giles.

Education has been at the forefront of Giles’ mind from the time she was a child. She seriously studied the piano from the time she was six until she was 18. She graduated as Valedictorian of her all black high school. Giles knew her school used ‘out of date’ textbooks after the “white schools” were finished with them. As a result, she asked her father to buy her encyclopedias and other tools to supplement her education.

After graduating high school, Giles’ music teacher told her to choose between her two loves, math and music, because she could not be both a concert pianist and a mathematician. Giles chose mathematics and continued her education.

She received a bachelor’s degree from Texas Southern with a major in mathematics and minor in English. Then Giles received a Bachelor of Science in applied mathematics at Brooklyn Polytechnic Institute in New York. In 1971, she went back to Houston and earned a masters degree in secondary education with an emphasis in mathematics at Texas Southern. Then Giles received a masters in mathematics at Texas A&M at College Station, before working on her doctorate there.

When asked why she loves mathematics, Giles replied, “Mathematics is just another form of communication. It’s just another way for people to express their ideas and thoughts. Besides, it’s everywhere you turn.”

Giles has two children; Karume, 30 and Alisha, 24. Karume lives at home with his mother. Alisha, recently married, lives in Cleveland.

When asked how she was able to balance raising two children with going to school and teaching, Giles replied, “I didn’t do a good job with the first one because I gave him too much freedom. But I was extremely protective with the second one.” Alisha was her mother’s shadow and followed Giles to all of her classes.

Before her career as a mathematics professor, Giles worked on Wall Street for Merrill Lynch where she did trend analysis for commodities. “I didn’t fit the corporate culture,” she said, “and it was lonely being the only black.”

Then, Giles owned her own construction company for two years. “I had no support,” said Giles, “I gave in to political pressures because at the time no one wanted to see a black woman own her own construction company.”

In the future, Giles wants to continue writing poetry and use her life experience to inspire young people. “Out of my pain, came my poetry,” said Giles. Giles has a strong Christian faith. “My achievements have something to do with intellect, but are mostly a product of divine protection,” she said. “The scriptures create a shield for me.\rdblquote Giles said of her weekly Bible study class, “It strengthens me everyday.” She feels “God has given me the gift of articulation\’85allowing me to deal with struggle and pain while maintaining hope.”

Giles’ advice to others is to “live by two principles, work and prayer\’85Always remember all things work together for good.

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 **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/>

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.**

Haverford College

Haverford College seeks to fill a tenure-track position in mathematics at the assistant professorial level, beginning Fall 2003. Candidates should have a strong commitment to teaching and research, and should demonstrate significant experience and potential for growth in both. Those specializing in analysis or geometry, with applied interests, are especially sought; but all candidates in mathematics, applied mathematics and statistics are invited to apply. Candidates should be prepared to teach a broad spectrum of courses at the undergraduate level, as well as courses in their research areas.

Send a cover letter explaining your interest in the position, curriculum vitae, statements of teaching and research interests and activities, and three letters of recommendation to Kay Warner, Mathematics Search Committee, Haverford College, Haverford PA 19041 by December 1, 2002 to ensure full consideration. Haverford College is an **Equal Opportunity/Affirmative Action Employer**.
Women and minority candidates are strongly encouraged to apply.

The Mathematical Sciences Research Institute

Berkeley, California

MSRI solicits applications for membership during the 2003-2004 year, which will feature three programs:

Differential Geometry (academic year, Aug. 11, 2003 - May 14, 2004)

Discrete and Computational Geometry (fall semester, Aug. 11 - Dec. 19, 2003)

Topological Aspects of Real Algebraic Geometry (spring semester, Jan. 2 - May 14, 2004)

In addition, MSRI continues the Complimentary Program, in which applications from candidates working in any field of mathematics are welcome.

Award categories:

- Research Professorships: partial salary support for at least three months, intended for mathematicians with PhDs awarded 1997 or earlier. Deadline: Sept. 27, 2001.
- Postdoctoral Fellowships: support for five or ten months, intended for mathematicians with PhDs awarded 1998 or later. Deadline: Nov. 15, 2001.
- General Memberships: partial support toward living and travel expenses. Deadline: Nov. 15, 2001.

Information and application form available on our webpage:

<http://www.msri.org>

The Institute for Advance Study

The School of Mathematics has a limited number of memberships, some with financial support for research in mathematics at the Institute during the 2003-2004 academic year. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree. Carlos Kenig will be the Distinguished Visiting Professor during the academic year and will lead a program on analysis and non-linear PDE's.

The School of Mathematics and the Department of Mathematics at Princeton University have established the Veblen Research Instructorship. The instructorship position is a three-year appointment with the first and third year spent at Princeton University and the second year at the Institute. A limited number of instructorships are offered each year to candidates who have received their Ph.D. within the last three years.

Information about membership, the Instructorship positions, and application forms may be requested from Applications, School of Mathematics, Institute for Advanced Study, Einstein Drive, Princeton, NJ 08540. Telephone (609)734-8112. E-mail address: applications@math.ias.edu.

Forms may be downloaded, but not submitted via a web connection to: <http://www.math.ias.edu>

University of Illinois at Chicago

Department of Mathematics, Statistics and Computer Science

The Department has active research programs in centrally important areas of pure mathematics, computational and applied mathematics, combinatorics and computer science, statistics, and mathematics education. See <http://www.math.uic.edu> for more information.

Applications are invited for the following positions, effective August 21, 2003.

Tenure track or tenured positions subject to budgetary approval.

Candidates in all areas of interest to the Department will be considered. The position, subject to budgetary approval, is initially budgeted at the Assistant Professor level, but candidates with a sufficiently outstanding research record may be considered at higher levels. Applicants must have a Ph.D. or equivalent degree in mathematics, computer science, statistics, mathematics education or related field, an outstanding research record, and evidence of strong teaching ability. The salary is negotiable.

Research Assistant Professorships/VIGRE Postdoctoral Fellowships. These are non-tenure track positions, normally renewable annually to a maximum of three years. Some of these positions are partially funded by a VIGRE grant from the NSF and are open only to U.S. citizens, nationals or permanent residents. Others are open without this restriction. These positions carry a teaching load of one course per semester, and the expectation that the incumbent play a significant role in the research life of the Department. The salary for AY 2003-2004 for these positions is \$47,000; the salary for AY 2004-2005 may be higher; in each of the first two years, for those eligible, the VIGRE grant provides an additional \$6,000 for summer support. Applicants must have a Ph.D. or equivalent degree in mathematics, computer science, statistics, mathematics education or related field, and evidence of outstanding research potential.

Send vita and at least 3 letters of recommendation, clearly indicating the position being applied for, and whether you are eligible for a VIGRE fellowship, to: Appointments Committee; Dept. of Mathematics, Statistics, and Computer Science; University of Illinois at Chicago; 851 S. Morgan (M/C 249); Chicago, IL 60607. No e-mail applications will be accepted. To ensure full consideration, materials must be received by November 31, 2002, for the tenure/tenure track positions, and December 13, 2002 for the postdoctoral fellowships. However, we will continue considering candidates until all positions have been filled. **Minorities, persons with disabilities, and women are particularly encouraged to apply. UIC is an AA/EOE.**

Harvey Mudd College

Chair, Department of Mathematics

Harvey Mudd College invites applications for a permanent position in mathematics at the full professor level. Demonstrated excellence in teaching is absolutely essential for all candidates, as is an established record of scholarship in the mathematical sciences. The successful candidate will begin service as department chair shortly after the appointment and will possess demonstrated leadership skills to support and mentor a young, enthusiastic department. Candidates should also be willing to supervise undergraduate research and work with others in the development of undergraduate curriculum and other departmental programs.

Purdue University
Department of Mathematics

Applications are invited for tenure-track Assistant Professor or three-year Research Assistant Professor appointments beginning August 2003. Ph.D. by August 18, 2003, exceptional research promise, and strong teaching record required. Applications will also be accepted for possible appointments at the Associate Professor/Professor level. Ph.D. and excellence in research and teaching required.

Outstanding applicants from various mathematical research areas will be considered. Because the department has several openings in applied mathematics, candidates who have significant research accomplishments in applied mathematics or computational applied mathematics are especially encouraged to apply. Several positions may be available for terms ranging from one semester to two years beginning August 2003.

All applicants should have research interests in common with Purdue faculty. Send vita, summary of research interests/plans, and arrange for three letters of recommendation (one addressing teaching) to be sent to: Head, Department of Mathematics Purdue University, West Lafayette, IN 47907-1395.

Review of applications will begin November 15, 2002 and continue until available positions are filled. Offers for tenure-track positions may be made at any time; some offers for RAP and visiting positions will be made before the end of January 2003. **Purdue University is an Affirmative Action/Equal Opportunity Employer.**

Miami University
Oxford, OH

The Department of Mathematics and Statistics invites applications for three tenure track positions at the Assistant Professor level starting in Fall 2003. Duties include continuing research, teaching graduate and undergraduate courses, and service. Applicants must have completed a Ph.D. in mathematics by the starting date. Applicants in all areas of mathematics will be considered; however, strong preference will be given to candidates in areas compatible with the research interests of the department (www.muohio.edu/mathstat/). For one of the positions, preference will be given to candidates in applied mathematics. These positions have been approved at the Assistant Professor level; however, for an especially well-qualified applicant, an appointment at the Associate Professor level would be considered. Applications from women and minorities are especially welcome. Applicants should send a letter of application, an AMS cover sheet, vita, description of current research, and a statement of teaching philosophy. They should also arrange for three letters of reference to be sent to:

Mathematics Search
Department of Mathematics and Statistics
Miami University
Oxford, Ohio 45056.

Applications will be accepted until the positions are filled; however, screening of applications will begin on December 2, 2002.

Miami University is an **Affirmative Action/Equal Opportunity Employer.**

Georgetown University

Department of Mathematics

The Department, committed to excellence in both research and undergraduate teaching, has two tenure-track positions at the Assistant Professor level beginning August 26, 2003. The Ph.D. degree in mathematics is required with strong research credentials in analysis or applied mathematics and interests commensurate with those of the department.

An application should include: a completed AMS standard cover sheet, a curriculum vitae, reprints or preprints of no more than three research papers, evidence of effective undergraduate teaching, and at least three, letters of recommendation. Send to:

Professor George Benke
Chairman of the Hiring Committee
Department of Mathematics
Georgetown University;
Washington, DC 20057-1233

Consideration of complete applications will begin December 1, 2002, and will continue until available positions are filled. Georgetown University is an **Equal Employment Opportunity and Affirmative Action institution in employment and admissions.**

University at Buffalo

Department of Mathematics

The Department of Mathematics anticipates the appointment of a tenure-track assistant professor, effective August 2003. 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 4, 2002. Late applications will be considered until the position is filled. No electronic applications will be accepted.

The University at Buffalo is an Equal Opportunity/Affirmative Action 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.

York University
Applied Mathematics

Applications are invited for an NSERC University Faculty Award, at the Assistant Professor level in the Department of Mathematics and Statistics to commence July 1, 2003. Applications in the areas of Applied or Computational Mathematics will be considered. The successful candidate must have a PhD and is expected to have a proven record of research excellence, and superior teaching. The position is subject to budgetary approval and the selection process will begin immediately. Applicants should send resumes and arrange for three letters of recommendation (one of which should address teaching) to be sent directly to:

UFA Search Committee
Department of Mathematics and Statistics
York University
4700 Keele Street
Toronto, Ontario
Canada M3J 1P3
Fax: 416-736-5757
Email: ufa.recruit@mathstat.yorku.ca
www.math.yorku.ca/Hiring

The UFA program is directed to women and aboriginal peoples. York University also has an Affirmative Action Program with respect to its faculty and librarian appointments. The designated groups are: women, racial/visible minorities, persons with disabilities and aboriginal peoples. Persons in these groups must self-identify in order to participate in the Affirmative Action Program. The Department of Mathematics and Statistics welcomes applications from persons in these groups. The Affirmative Action Program can be found on York's website at www.yorku.ca/acadjobs/ or a copy can be obtained by calling the affirmative action office at 416-736-5713. The UFA program is restricted to Canadian citizens and permanent residents.

Monmouth University

Statistics and mathematics position: The Mathematics Department of Monmouth University is seeking a full-time faculty member for a tenure track appointment at the assistant professor level starting August 25, 2003. The position requires a Ph.D. in statistics (or equivalent recent statistical experience and a Ph.D. in mathematics); some consulting experience is strongly preferred.

The mathematics department has several members with some graduate work in statistics, but none with Ph.D.s in this field. The person we hire will be expected to lead the department's discussion of our offerings in statistics, and assist in developing pre-actuarial offerings. As most of our statistics offerings meet needs of students in "client" disciplines, it is essential that the candidate possess good communication skills, not only with mathematicians, but also with students and faculty in other disciplines. Teaching responsibilities include both statistics and mathematics courses. There are also expectations of continued scholarly activity consistent with the teaching load, 9 credits per semester. If you have questions about the position or the department, contact the department chair, Bonnie Gold, bgold@monmouth.edu.

Monmouth University, a teaching university, has 5300 students, of whom 1200 are at the graduate level. Located along the Central Jersey shore approximately one hour south of New York City and 1.5 hours east of Philadelphia, Monmouth University's 138 acre, suburban campus is home to approximately 30 baccalaureate degree programs and 11 masters programs. Monmouth University is located in Monmouth County, NJ, which is home to some of the world's leading high technology companies, particularly in the areas of telecommunications and computer/communications systems.

Applicants should send (1) cover letter, (2) resume, (3) teaching statement, (4) the Monmouth departmental application form (available at <http://mathematics.monmouth.edu/app/StatsAppForm.htm> or request by telephone from the department secretary, 732-571-4461), copies of graduate transcripts, and 3 letters of recommendation, at least one of which should discuss the applicant's teaching, and (if applicable) one discussing the applicant's experience with consulting, to:

Frank Lutz, Dean
School of Science, Technology and Engineering
Monmouth University
West Long Branch, NJ 07764-1898

Applications and supporting materials must be postmarked on or before December 1, 2002 to assure full consideration. Monmouth University is an **equal opportunity, affirmative action employer.**

Northwestern University

Department of Mathematics
2033 Sheridan Road 3, Evanston, Illinois 60208-2730
Boas Assistant Professor

Applications are solicited from people whose research is in geometry and geometric topology for two Ralph Boas assistant professorships of three years each starting in September 2003. These positions are connected to the Emphasis Year in Geometry and Topology of String Theory. They are non-tenure track.

Applications should be sent to the Emphasis Year 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. Inquiries may be sent via e-mail to: hiring@math.northwestern.edu

Applications are welcomed at any time, but the review process starts December 1, 2002. 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 or Tenured

Applications are invited for anticipated tenure-track or tenured positions starting September 2003, pending final approval. 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. Inquiries may be sent via e-mail to: hiring@math.northwestern.edu

Applications are welcome at any time, but the review process starts in October 2002.

Northwestern University is an **affirmative action, equal opportunity employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.**

Dartmouth College

John Wesley Young Research Instructorship

The John Wesley Young Instructorship is a two-year post-doctoral appointment intended for promising Ph.D.'s whose research interests overlap a department member's. Current departmental interests include areas in algebra, analysis, algebraic geometry, combinatorics, differential geometry, logic and set theory, number theory, probability, 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. Nine-month salary of \$43,800.00 supplemented by summer research stipend of \$9,733.00 for instructors in residence for two months in summer. To be eligible for a 2003-2005 Instructorship, candidate must be able to complete all requirements for the Ph.D. degree before September, 2003. Applicants should get a copy of the application information and the required response-form 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. Applications received by January 5, 2003 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.**

Senior Applied Mathematician

The Department of Mathematics seeks to recruit at the senior level in Applied Mathematics with an initial appointment in the 2003-2004 academic year. The successful candidate will be acknowledged leader in his/her field with proven ability to work across disciplines and attract outside funding. Applicants with any of a wide variety of interests ranging from traditional applied fields and backgrounds, e.g. signal processing, mathematical statistics, PDE's, as well as new application

areas such as informatics, quantum computing or applied algebra, are encouraged to apply. Various projects are currently funded by NSF NIH, NIMH, and DoD. Active collaborations with the medical and engineering schools, and programs in computer science and cognitive neuroscience exist. Collaborations and/or appointments in Dartmouth's M.D./Ph.D. program, as well as Dartmouth's Institute for Secure Technologies Studies, are also possible. Lab space in the new mathematics building will also be available and future hirings in applied mathematics are anticipated

Candidates must be committed to outstanding teaching and interaction with students at all levels of undergraduate and graduate study and be willing to advance applied mathematics across campus.

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 two courses per quarter for two ten-week quarters or one course for each of two quarters and two courses for one quarter. The combination of committed colleagues and talented, responsive students encourages excellence in teaching at all levels.

To apply, a copy of the application information and required response form may be obtained online from our web site 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 four letters of reference, at least one of which specifically addresses teaching, to Donna Black, Recruiting Secretary, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover, New Hampshire 03755-3551. Applications received by December 6, 2002 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, Professor of Mathematics and Computer Science, Dartmouth College, Hanover, NH 03755 or via email at **Daniel.Rockmore@Dartmouth.edu**.

Tenure-Track Number Theory or Applicable Mathematics

The Department of Mathematics anticipates a tenure-track opening with initial appointment in the 2003-2004 academic year. The position is an Assistant Professorship in number theory, or "applicable mathematics." The work of candidates in applicable mathematics should straddle the line of pure and applied mathematics. The successful candidate will be a researcher working in core mathematics who has a proven track record in pursuing both the theoretical development of his/her subject, as well as potential applications. Examples would include (but are not limited to) number theorists with interests in cryptography or coding theory, representation theorists who work in signal processing, combinatorialists with interests in computing, probabilists with interests in statistics, as well as more classical applied mathematicians. Various projects are currently funded by NSF and DoD. Active collaborations with the medical and engineering schools, and programs in computer science and cognitive neuroscience exist. Collaborations and/or appointments in Dartmouth's M.D./Ph.D. program, as well as Dartmouth's Institute for Secure Technologies Studies, are also possible. In number theory, we have interests in both algebraic and analytic number theory.

Candidates for the position must be committed to outstanding teaching and interaction with students at all levels of undergraduate and graduate study, and must demonstrate an exceptional potential for research. Candidates with several years of experience should be able to give evidence of a research program that has achieved peer-recognition and which promises future research leadership in the mathematical community. Candidates who do not have this level of experience must have demonstrated the potential for future mathematical research leadership in their Ph.D. work.

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 two courses per quarter for two ten-week quarters or one course for each of two quarters and two courses for one quarter. The combination of committed colleagues and bright, responsive students encourages excellence in teaching at all levels.

To apply, get a copy of the application information and the required response-form 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 four letters of reference, at least one of which specifically addresses teaching, to Donna Black, Recruiting Secretary, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover, New Hampshire 03755-3551. Applications received by January 5, 2003 will receive first consideration.

Dartmouth College is committed to Affirmative Action and **encourages applications from African Americans, Asian Americans, Hispanics, Native Americans and women**. Inquiries about the progress of the selection process may be directed to Dwight Lahr, Recruiting Chair.

University of California at Berkely
Department of Mathematics
Berkeley, CA 94720
Charles B. Morrey Jr. Assistant Professorships

We invite applications for these special (nontenure-track) positions effective July 1, 2003. The terms of these appointments may range from two to three years. Applicants should have a recent Ph.D., or the equivalent, in an area of pure or applied mathematics. Applicants should send a resume, reprints, preprints and/or dissertation abstract, and ask three people to send letters of evaluation to The Vice Chair for Faculty Affairs at the above address. All letters of evaluation are subject to Berkeley campus policies on confidentiality of letters of evaluation, a summary of which can be found on our home page (<http://math.berkeley.edu> by clicking on *available teaching position*, and then *confidentiality policy*). We request that applicants use the AMS standardized application form and indicate their subject area using the AMS subject classification numbers. The form is the Academic Employment in Mathematics, Application Cover Sheet, it is available courtesy of the American Mathematical Society.

Applications must be postmarked by December 1, 2002. Applications postmarked after the deadline will not be considered. The University of California is an **Equal Opportunity, Affirmative Action Employer**.

Temporary Post Doctoral Positions

Several temporary positions beginning in Fall 2003 are anticipated for new and recent Ph.D.'s of any age, in any area of pure or applied mathematics. The terms of these appointments may range from one to three years. Applicants for NSF or other postdoctoral fellowships are encouraged to apply for these positions. Mathematicians whose research interests are close to those of regular department members will be given some preference. Applicants should send a resume and reprints, preprints, and/or dissertation abstract, and ask three people to send letters of evaluation to The Vice Chair for Faculty Affairs at the above address. All letters of evaluation are subject to Berkeley campus policies on confidentiality of letters of evaluation, a summary of which can be found on our home page (<http://math.berkeley.edu> by clicking on *available teaching position*, and then *confidentiality policy*). We request that applicants use the AMS standardized application form and indicate their subject area using the AMS subject classification numbers. The form is the Academic Employment in Mathematics, Application Cover Sheet, it is available courtesy of the American Mathematical Society.

Applications must be postmarked by December 1, 2002. Applications postmarked after the deadline will not be considered. The University of California is an **Equal Opportunity, Affirmative Action Employer**.

Tenured or Tenured Track Position

Pending budget approval, we invite applications for one or more positions effective July 1, 2003 at either the tenure-track (Assistant Professor) or tenured (Associate or Full Professor) level, in the general areas of pure or applied mathematics.

Tenure track applicants are expected to have demonstrated outstanding research potential, normally including major contributions beyond the doctoral dissertation. Such applicants should send a resume, and reprint or preprints, and/or dissertation abstract, and ask three people to send letters of evaluation to The Vice Chair for Faculty Affairs at the above address. It is the responsibility of the tenure track applicants to make sure that letters of evaluation are sent. All letters of evaluation are subject to Berkeley campus policies on confidentiality of letters of evaluation, a summary of which can be found on our home page (<http://math.berkeley.edu> by clicking on available teaching positions).

Tenure applicants are expected to demonstrate leadership in research and should send a curriculum vitae, list of publications, a few selected reprints or preprints, and the names and addresses of three references to The Vice Chair for Faculty Affairs at the above address. Applicants should indicate whether they are applying for an Associate Professor or a Full Professor position. The department will assume responsibility to solicit letters of evaluation and will provide evaluators with a copy of the summary of policies on confidentiality of letters of evaluation.

All applicants are requested to use the AMS standardized application form and to indicate their subject area using the AMS subject classification numbers. The form is the Academic Employment in Mathematics, Application Cover Sheet, it is available courtesy of the American Mathematical Society.

Applications for both Tenure track and Tenure applications must be postmarked by November 15, 2002. Applications postmarked after the deadline will not be considered. The University of California is an **Equal Opportunity, Affirmative Action Employer**.

University of Minnesota Minneapolis

School of Mathematics

Dunham Jackson Assistant Professor

This is a three-year appointment from fall semester, 2003 through spring semester, 2006 with a teaching load of 3 one-semester courses per academic year. Outstanding research and teaching abilities required. Preference will be given to applicants whose research interests are compatible with those of the School. Applicants should have received a Ph.D. or equivalent degree in mathematics no earlier than Jan. 1, 2002 and no later than August 25, 2003. Summer School teaching may be available during the summers of 2004 and 2005 to supplement regular stipend. Salary competitive. Consideration of applications will begin December 1, 2002 and continue until available positions are filled. Send letter of application, current curriculum vitae, minimum 4 letters of recommendation, one of which should address teaching ability, and description of research to Naresh Jain, Head, School of Mathematics, University of Minnesota, 206 Church Street S.E., 127 Vincent Hall, Minneapolis, MN 55455. The University of Minnesota is an **equal opportunity educator and employer**. See also <http://www.math.umn.edu>

Tenured or Tenure Track Positions

STARTING FALL SEMESTER, 2003. The School of Mathematics may have available several tenure-track Assistant Professor or tenured Associate or Full Professor positions starting fall semester, 2003. Ph.D. or equivalent degree in mathematics or closely related field by the beginning date of appointment, outstanding research and teaching abilities are required. Applications at all levels are invited; preference will be given to applicants whose research interests are compatible with those of the School. Consideration of applications will begin November 1, 2002 and will continue until available positions are filled. Send letter of application, current curriculum vitae, at least 4 letters of recommendation, one of which should address teaching ability, and description of research to: Naresh Jain, Head, School of Mathematics, University of Minnesota, 127 Vincent Hall, 206 Church Street S.E., Minneapolis, MN 55455. The University of Minnesota is an **equal opportunity educator and employer**.

Visiting Positions

Several temporary or visiting positions at all levels (Instructor, Assistant, Associate or Full Professor) may be available for terms ranging from one semester to two years beginning fall semester, 2003. Ph.D. or equivalent degree in mathematics or closely related field by beginning date of appointment, strong research and teaching abilities are required. Preference will be given to applicants whose research interests are compatible with those of the School. Salary competitive. Consideration of applications will begin December 1, 2002 and continue until available positions are filled. Send letter of application, current curriculum vitae, at least 4 letters of recommendation, one of which should address teaching ability, and description of research to Naresh Jain, Head, School of Mathematics, University of Minnesota, 206 Church Street S.E., 127 Vincent Hall, Minneapolis, MN 55455. The University of Minnesota is an **equal opportunity educator and employer**. See also <http://www.math.umn.edu>

Syracuse University

Philip T. Church Postdoctoral Fellowship

The Mathematics Department invites applications for the newly created Philip T. Church Postdoctoral Fellowship. Responsibilities of this two-year position include conducting research, contributing to the intellectual life of the Department, and teaching. Applicants should have a recent Ph.D. in an area of pure or applied mathematics and strong potential in both research and teaching. Preference will be given to candidates whose research interests overlap and/or complement those of existing faculty. See <http://math.syr.edu> for more information.

Applications should include a CV, three letters of recommendation addressing research qualifications, and at least one letter addressing teaching. Send applications to Chair, Department of Mathematics, Syracuse University, Syracuse, NY 13244. Screening of candidates begins December 15, 2002.

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

Analysis

The department seeks to fill two positions, without restriction on rank, beginning August, 2003. Ph.D. in mathematics required. Senior level candidates should have an outstanding record of accomplishment and potential in both research and teaching. Junior level candidates should have a strong record of accomplishment and potential in both research and teaching. Exceptional candidates from all areas will be considered, but for one position preference will be given to candidates

Applicable Mathematics

The department seeks to fill two positions, without restriction on rank, beginning August, 2003. Ph.D. in mathematics or mathematical statistics required. Senior level candidates should have an outstanding record of accomplishment and potential in both research and teaching. Junior level candidates should have a strong record of accomplishment and potential in both research and teaching. Exceptional candidates from all areas will be considered, but for one position preference will be given to candidates in applicable mathematics. Preference will also be given to candidates whose research interests overlap and/or complement those of existing faculty. Areas of applicable mathematics presently represented in the department include probability, statistics, numerical analysis, and combinatorics. 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. Screening of senior level candidates is ongoing. Screening of junior level candidates begins December 15, 2002 and continues until the position(s) are filled.

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



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