FOCUS
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Campaign for Leitzel Lecture Reaches Initial Target

At its meeting in Toronto in July, the MAA Board of Governors approved the establishment of the James R. C. Leitzel Lecture, and a special fund raising campaign to support the lecture was launched. By October 1, the Leitzel Fund had passed the $25,000 minimum that the MAA requires for a restricted fund.

James Leitzel of the University of New Hampshire, who died in February, 1998, served on and chaired many MAA committees on undergraduate teaching and programs, authored numerous publications and articles on mathematics and mathematics education, was a member of the Board of Governors, and was a frequent speaker at national meetings and regional conferences. Jim's last program may also be the one for which he is best remembered, Project NExT, which he co-directed with T. Christine Stevens of St. Louis University. NExT (New Experiences in Teaching) is one of the MAA's most successful and lauded projects. It is a year-long professional development program for new or recent Ph.D.s in the mathematical sciences that addresses a broad range of issues, focusing on the teaching and learning of undergraduate mathematics.

The lecture will focus on issues to which Jim Leitzel dedicated his volunteer time—mathematical sciences education, teacher preparation, and the integration of new faculty into the profession. The first lecture will take place at Mathfest in 1999.

To fund the continuation of this lecture, a special campaign was undertaken this fall, coordinated by Gavin LaRose (Nebraska Wesleyan University) and Ken Ross (University of Oregon). The Exxon Education Foundation, which provides substantial support for Project NExT, got the campaign off to a good start with a generous donation. As Ed Ahnert, the President of the Foundation, said in a letter to MAA Executive Director Marcia Sward, "We count it a privilege to include Project NExT among the Foundation's most important programs...We are especially indebted to Jim Leitzel for making NExT possible."

Thanks to the contributions of many MAA members, including over 225 Project NExT Fellows, the campaign has netted $32,940 as of October 9. More donations are welcome.

Please send contributions to The Leitzel Fund, MAA, 1529 18th Street, N.W., Washington, D.C. 20036. Checks should be made out to MAA, with a notation for The Leitzel Fund on the memo line.

Jim is greatly missed, and this memorial lecture is a wonderful way to honor his memory and all the work that he did for the mathematics community.

The list on page 2 is those who have contributed to this special fund as of October 9, 1998. Information about the Leitzel Lecture Fund is available at http://www.mathcs.nebrwesleyan.edu/pnext/leitzfund/

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Editor: Harry Waldman, MAA; hwaldman@maa.org

Managing Editor: Carol Baxter, MAA cbaxter@maa.org

Please address advertising inquiries to: Carol Baxter, MAA; cbaxter@maa.org

President: Gerald L. Alexanderson, Santa Clara University

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Letters to the editor should be addressed to Harry Waldman, MAA, 1529 Eighteenth Street, NW, Washington, DC 20036.

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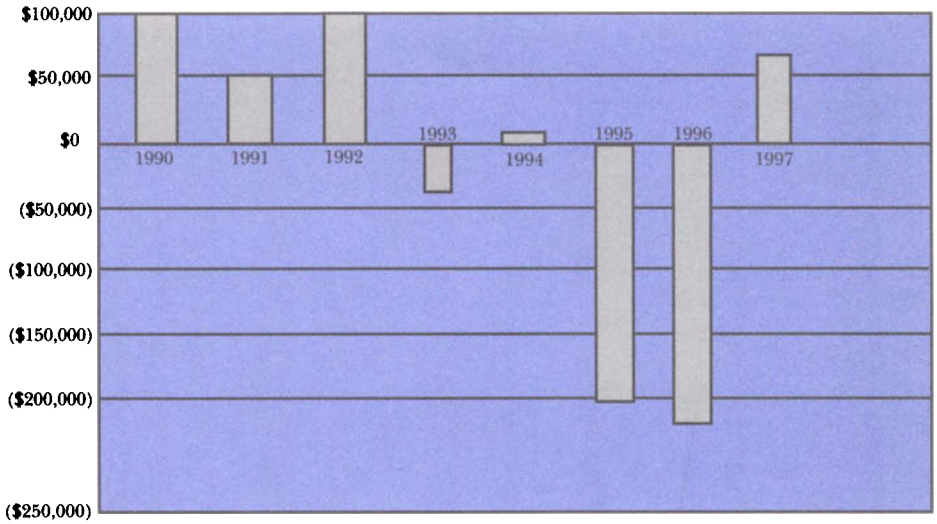
Treasurer's Report : The MAA's 1997 Balance Sheet Improved

Gerald J. Porter

I am pleased to report that the MAA operating budget realized a surplus in 1997. This was achieved through diligence by our staff in containing costs. The chart at the right gives a quick overview of the performance of the MAA General Fund (excluding extraordinary transfers from the Investment Fund) during the last eight years. During this period there was a total deficit of slightly over $126,000. This was offset by a transfer from the Investment Fund of $175,000.

MAA General Fund-1990–1997

(not including extraordinary transfers from investments)



The General Fund is the Association's operating budget. It includes the journal and book programs, meetings, governance, and member services. It does not include grant funded programs, the American Mathematics Competitions, or the operation of the MAA headquarters buildings.

It is obvious from the chart that something "happened" in 1995 and 1996. That something was a reorganization of our Washington office that included outsourcing publication and membership fulfillment services. The goal of the reorganization was to focus more intensely on member services and programs using savings realized by the outsourcing. As was quickly realized, the outsourcing did not provide the level of saving that had been anticipated and consequently the expansion of services had to be scaled back.

It is still the intent of the Association to reach the goals of the 1995 reorganization. In line with this the MAA is exploring ways to increase both revenue and membership. I feel confident that based upon our 1995–96 experience the Association will not initiate new spending initiatives until required funding is in place.

The MAA Investment Fund benefited from the robust stock market in 1997 and increased by $343,382 before a transfer of $112,505 to the General Fund; the American Mathematics Competitions had a surplus of slightly more than $200,000 in 1997 after experiencing a small deficit in 1996; and, we are pleased to report, the mortgage on the MAA headquarters buildings was paid. We discuss the operating budget, grant activity, the headquarters building fund, the American Mathematics Competitions and the investment fund individually below.

Last but not least, I am glad to acknowledge the assistance of our new Director of Finance, Neil Beskin, in preparing this report. Neil joined the MAA in December, 1997.

What Happened in 1997

- Dues income was down slightly due to a change in the way we account for dues received during the last quarter of the year. These dues are now credited to the following year.
- Contributions increased by approximately $50,000.
- Journal income was about the same as 1996, but journal expenses were down $75,000.
- The cost of electronic services provided to members and to the staff increased significantly.
- Book sales increased because of a new distribution agreement with Cambridge University Press; however, book costs were up slightly.
- Upon the advice of our auditors we took an $80,000 charge for slow selling books. Without this charge the net income would have been significantly higher in 1997. Despite the charge, we still anticipate selling these books.
- The administrative cost of running the Washington office was reduced by $80,000 in 1997.
- Support of JPBM decreased by $25,000 because of a temporary vacancy in the director's position.
- In 1997 we terminated our marketing agreement with an outside vendor and had our staff take over responsibility for marketing. As a result, the expenses in 1997 were decreased while we planned for future activities. We expect the cost of these activities to increase in 1998.

Externally Funded Projects

During 1997 the MAA received external project support of $847,347. This was down from the $954,913 received in 1996. As a result, the indirect cost recovery of administrative expenses decreased slightly from $103,351 in 1996 to $97,526 in 1997.

American Mathematics Competitions

The MAA manages a high school and a junior high school national mathematics competition. These activities are managed from our office in Lincoln, Nebraska. Students who perform well on the high school examination are invited to compete for participation on the U.S. Mathematical Olympiad team. This competition takes place through two additional exams, the USAMO and the AIME.

In 1997 the income from these examinations totaled $880,445 while expense was $679,374. A portion of our unrestricted endowment is designated to support these activities. That endowment increased by $219,571 in 1997 because of the surplus indicated above. It now has a value of $498,278.

Building Fund

The Association owns two adjoining townhouses and a carriage house at 1527 and 1529 Eighteenth Street NW, Washington, DC. The MAA Washington office occupies 1529, most of the carriage house, and a small amount of 1527.

The remainder of 1527 is rented to other mathematical organizations including the AMS, JPBM's Office of Government and Public Relations, CBMS, and our own SUMMA Project.

In 1997 we "charged" ourselves $216,400 for the space we occupied. That amount is included in Building Fund Income.

Building Fund Income:	$334,612
Building Fund Expense:	$382,173

During the past ten years extensive renovations were done to our properties. In part, these renovations were funded through a very successful Building Fund Drive.

It was our original intent to depreciate the costs of renovations over a ten year period. The building itself is depreciated over 40 years.

Upon a review of depreciation schedules it was determined that the renovations had been depreciated over periods ranging from 10 to 40 years. This resulted in a large positive entry on our balance sheet corresponding to future depreciation. Based upon discussions by the Finance Committee the decision was made to depreciate all renovations over ten years. This resulted in an adjustment of $489,312 in our balance sheet for 1997. In 1997, depreciation on the building and renovations was $113,893.

Investment Fund

The MAA Investment Fund includes both restricted and unrestricted endowment funds. At the end of 1997 the MAA Investment Fund was valued at $1,764,952 up from 1,534,075 at the end of 1996. During 1997, $37,505 was transferred to support prizes and other activities designated by the original donors to the MAA. An additional $75,000 was transferred to the Operating Budget to improve the Association's cash flow.

The MAA Endowment Funds are, according to accounting standards, divided into Unrestricted, Temporarily Restricted, and Permanently Restricted. The values of these funds is shown in the table at the bottom of this page.

The Sliffe Fund

The last will and testament of Edith May Sliffe established a fund (The Sliffe Fund) to fund awards to selected teachers whose teams qualified in the American Mathematics Competitions. The MAA was selected as the Trustee of this fund.

In prior years, the Sliffe Fund was included on the MAA Balance sheet as an MAA asset. This was incorrect since the Fund does not belong to the MAA; it is a trust administered by the MAA. On December 31, 1997 the Sliffe Fund had a value of $535,069.

In the same way the value ($100,908) of a trust established by Clinton B. Ford in memory of Walter B. Ford has been removed from MAA assets. The 1996 results were restated to show these changes.

General Fund Balance

The General Fund Balance is the cumulative sum of yearly balances in the general fund. It is a measure of how the Association has done over time. This balance increased last year by $133,335, which was the surplus in the General Fund for the year. It is the goal of the Finance Committee to achieve a positive balance in the General Fund.

December 31, 1996	December 31, 1997
($283,603)	($150,268)

Supporting materials for this report are available on the World Wide Web. These include the following:

1. Income and Expense by Activity.(www.math.upenn.edu/~gjporter/maa/1997/inc_exp.htm)
2. Building Fund Report (www.math.upenn.edu/~gjporter/maa/1997/bldg.htm)
3. 1997 Grant Income (www.math.upenn.edu/~gjporter/maa/1997/grants.htm)
4. American Mathematics Competitions - 1997 (www.math.upenn.edu/~gjporter/maa/1997/amc.htm)
5. 1997 Investment Report (www.math.upenn.edu/~gjporter/maa/1997/invest.htm)
6. 1996/1997 Balance Sheet (www.math.upenn.edu/~gjporter/maa/1997/balance_sheet.htm)

	December 31, 1996	December 31, 1997
Unrestricted board designated	$1,140,695	$1,284,869
Temporarily restricted	$295,170	$371,873
Permanently restricted	$98,210	$108,210
	$1,534,075	$1,764,952

Investment Fund

Overview: The Operating Budget for 1997

Where the money came from

Dues	$2,073,830
Contributions	$227,540
Journals (other than from member subscriptions)[1]	$783,113
Publications	$1,033,329
Allocated Indirect Cost Recovery	$117,016
Transfer from Investments	$134,174
Indirect Costs on Grants	$97,526
Meetings/Minicourses/Shortcourses	$257,794
Building Management Fee	$25,000
Miscellaneous	$92,514
TOTAL	**$4,841,836**

Dues includes member dues, institutional dues, corporate dues, and a payment from the Life Membership Fund for life members.

Contributions include the Greater MAA Fund, the dues supplement and other contributions.

Journals include subscriptions other than member subscriptions, sales of back issues and royalties received.

Publications income includes sales of MAA books and reports, placement tests, and video tapes.

Allocated Indirect Cost Recovery is indirect costs recovered from MAA activities that are not included in the Operating budget. This includes Olympiad activities and the American Mathematics Competitions.

Investments are funds that are transferred from Investments to support specified prizes and other activities as well as special transfers. In 1997 there was a special transfer of $75,000.

Indirect Costs on Grants is income on externally funded activities that support MAA administrative activities. Not all funding agencies pay indirect costs.

Meetings and Courses are registration fees from minicourses, shortcourses, and the online courses; net income from the joint meeting and all income from the summer Mathfest.

Where the money went

Journals/Electronic Services	$1,473,845
Publications	$705,381
Inventory Allowance	$80,200
General Programs and Services	$583,559
Executive, Finance and Human Resources Departments	$885,736
Governance	$164,064
Membership Processing	$547,848
Development	$149,503
Project Support	$32,288
Miscellaneous	$86,077
TOTAL	**$4,708,501[2]**

Journals/Electronic Services include the cost of publishing and distributing the *Monthly, Mathematics Magazine*, the *CMJ*, FOCUS, *Math Horizons*, and our electronic newsletter, MAA Online.

Publications is the cost of our book and video publication program.

General Programs and Services includes the cost of awards, minicourses, MAA portions of the joint meeting, the summer Mathfest, section support, SUMMA, student chapters, project support, and our participation in joint projects and activities such as JPBM.

Executive, Finance and Human Resources Departments is the cost of operating these three departments. These costs are not allocated to other activities.

Governance includes the costs related to the Board of Governors, section officers, executive and finance committees, and the officers.

Membership Processing is the cost of membership recruitment and fulfillment.

Development includes the cost of the Development Department as well as costs related to the Greater MAA Fund. This is an investment in future gifts as well as present contributions.

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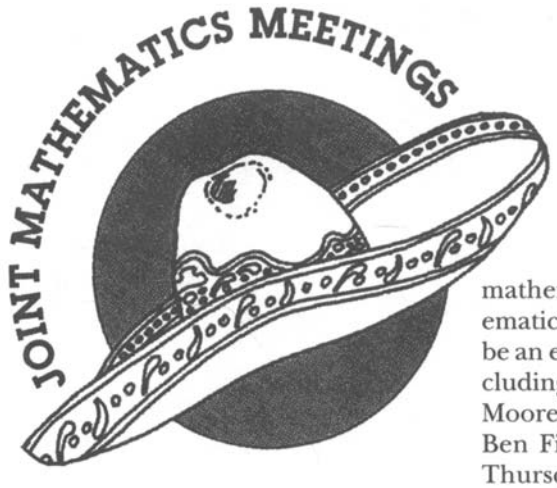
1. Journal income does not include the portion of member dues allocated for journal subscriptions. Those allocations are as follows: *American Mathematical Monthly*, $348,896; *Mathematics Magazine*, $168,360; *College Mathematics Journal*, $159,843; FOCUS, $136,633.
2. Expenses include direct expenses, allocated building expense, and allocated direct service expense for the publications, marketing, and member services departments. Costs attributable to Governance, the Executive and Finance Departments and the Development Department are not allocated. They appear as Administrative expenses.



San Antonio Updates January 13–16, 1999

Special Session for Chairs of Departments

A Special Session for Chairs of Mathematics Departments in Comprehensive Universities, 4-Year Liberal Arts and 2-Year Colleges, organized by G. L. Alexanderson, Santa Clara University, will be held Wednesday, January 13, 1999, 9:30–10:55 a.m. Speakers include Saeed Ghahramani, Towson University, on the assessment of scholarship at a non-Ph.D. granting institution; Catherine M. Murphy, Purdue University Calumet, on problems of remediation; and A. Wayne Roberts, Macalester College, on duties of a department chair.

Calling All Business Mathematicians

There will be an MAA welcome reception at the San Antonio Meeting, on Wednesday, January 13, 1999, from 5:00–6:00 p.m., for mathematicians working in business, industry, or government. For more details, contact Michael Monticino, chair, MAA Committee on Industrial and Governmental Mathematics, (817)-565-2155; e-mail, monticino@cas.unt.edu.

R. L. Moore Project

The Legacy of R. L. Moore Project was established at the Center for American History at the University of Texas at Austin to help advance studies of the mathematician and teacher of mathematics Robert Lee Moore. There will be an exhibition of related material, including screenings of films relating to Moore, organized by Albert C. Lewis, Ben Fitzpatrick, and Don Albers, on Thursday, Friday, and Saturday, 9:00 a.m.– 9:00 p.m.

CBMS Panel

A panel on "What Do Teachers Need to Know?, sponsored by CBMS' Mathematics Education of Teachers project and organized by W. James Lewis, University of Nebraska, will be held on Friday, January 15, 1:00–2:30 p.m.

MAA Teaching Awards

The MAA Teaching Award Presentations by the winners of the Haimo Awards are scheduled for Friday, January 15, 1999, from 3:20 p.m.–5:00 p.m. Be sure not to miss the presentations by these outstanding teachers:

Joel V. Brawley, Clemson University
Robert W. Case, Northeastern Univ.
Joan P. Hutchinson, Macalester Coll.

ARUME Meeting

There will be a MAA/ Association for Research on Undergraduate Mathematics Education (ARUME) Poster Session, organized by Julie Clark, Annie Selden, and John Selden, Saturday, January 16, 9:00 a.m –11:00 a.m.

SUMMA Program

On Saturday, January 16, from 1:00 p.m.–2:20 p.m, William A. Hawkins, Jr., Director of the SUMMA Program will lead a discussion and presentation of intervention programs for minority precollege students. Speakers Manuel Berriozabal, University of Texas-San Antonio; Claudette Bradley-Kawagley, University of Alaska-Fairbanks; Max Warshauer, Southwest Texas State University.

Reception for Walter Mientka

A reception honoring Walter Mientka, outgoing Executive Director of the American Mathematics Competitions, organized by CAMC Chair Richard A. Gibbs of Fort Lewis College, will take place Saturday, January 16, 5:00–6:00 p.m.

Mobilization to Support Higher Achievement in Mathematics

The U.S. Department of Education, in partnership with the NSF, has developed a comprehensive strategy to improve pre-K–12 student achievement in mathematics. Part of this effort is a mobilization, effective July 1, 1999, to provide targeted support to many students.

The mobilization will take advantage of a growing desire among professionals to share their enthusiasm and mathematical knowledge with school children and college students.

Existing programs will be described and input will be sought to help shape future programs. Organized by Linda P. Rosen, Special Advisor, Mathematics Education, U.S. Department of Education. Saturday, January 16, 2:30 p.m.–4:00 p.m. ■

AAAS Meeting to Offer Strong Mathematics Program

Warren Page

The 1999 Annual Meeting of the American Association for the Advancement of Science, January 21–26, in Anaheim will feature many outstanding expository talks by prominent mathematicians. These include the following symposia (three-hour sessions) and invited talks sponsored by Section A (Mathematics) of the AAAS:

- Massive Data Sets in Mathematics, Science, and Engineering, organized by Joan Feigenbaum
- Innovations in Mathematics: Historical Perspectives, organized by Karen V. Parshall and Joseph W. Dauben
- On the Unusual Effectiveness of Logic in Computer Science, organized by Moshe Y. Vardi
- The Mathematics of Epidemics and Disease, organized by Kenneth L. Cooke
- Internet Research As an Experimental Science, organized by Walter W. Willinger
- Counting on Justice? The Use and Misuse of Statistics in the Courts, organized by Mary Gray
- Frontiers of the Physical Sciences Lecture: "The Topology of DNA," DeWitt Sumner
- Topical Lecture: "Bringing Geometric Modeling to the Desktop: From 3D Scanning at Home to Transmission Over the Internet," Peter Schroder
- Topical Lecture: "Women in Mathematics: The Addition of Difference," Claudia Henrion

Other symposia that will be of interest to mathematicians and mathematics educators include:

- NCTM Standards 2000 Draft: Reflecting on Progress and Looking Ahead
- Frontiers of the Physical Sciences I, II
- Modeling Evolution
- Imaging Development: From Single Cells to Complex Organisms
- Preparing University Faculty to Teach While Educating Future Teachers
- Information Technology and the Future of Higher Education
- Intellectual Capital and Knowledge Management
- Perception, Illusion, and the Brain

The above symposia are only a few of the 150 or so AAAS program offerings in the physical, life, social, and biological sciences that will broaden the perspectives of students and professionals alike. Indeed, AAAS annual meetings are the showcases of American science, deserving greater participation by mathematicians.

In presenting mathematics to the AAAS Program Committee, I have found the committee genuinely interested in more symposia on mathematical topics of current interest.

The Section A Committee is looking for organizers and speakers who can present substantial new material in understandable ways.

For details of the program, see October 9, 1998 issue of *Science*. I invite you to attend our Section A Committee meeting. 8:00–11:00 p.m., Friday, January 22, 1999, Anaheim Marriott's Newport Beach room. The committee meeting is open to all who wish to stimulate interest and activities of the mathematical sciences within AAAS.

Please send me, and encourage your colleagues to send me, symposia proposals for future AAAS meetings. ■

Alberto Calderon, Influential Math Analyst, Dies at 77

Alberto Calderon, University Professor Emeritus of Mathematics at The University of Chicago, who became one of the central links between Fourier analysis and partial differential equations, died last April at the age of 77.

He taught at Ohio State University (1950–53), MIT (1955–59; 1973–75), and at The University of Chicago (1959–72; 1976–85). He was also a visiting member at the Institute for Advanced Study in the mid-1950s.

Born in Mendoza, Argentina, and educated in his youth in Switzerland, the multilingual Calderon graduated with a degree in civil engineering from the University of Buenos Aires.

In 1948 in Buenos Aires, he met the famed Antoni Zygmund of The University of Chicago who was so taken with Calderon's knowledge of mathematics that he invited the amateur mathematician to Chicago for formal study.

Calderon didn't let his mentor down. In one year, he earned a doctorate in mathematics.

Together with Zygmund, Calderon helped found what became known as the Chicago school of analysis; the two postulated the Calderon-Zygmund theory of singular integrals, which deals with mathematical objects that appear to be infinite but are shown to be finite when interpreted properly. The theory has been called one of the century's most important developments in analysis.

Calderon's knowledge in mathematical analysis, the branch of mathematics that includes calculus, infinite series, and the analysis of functions, was also made evident through scores of technical papers.

A fellow of the American Academy of Arts and Sciences, Calderon in 1989 won the AMS's Steele Prize and Israel's Wolf Prize, and in 1991 he was awarded the NSF's National Medal of Science. ■

EMPLOYMENT OPPORTUNITIES

ARKANSAS

HENDRIX COLLEGE

Faculty Position in Mathematics

Hendrix College invites applications for a tenure-track position in mathematics at the assistant professor level beginning fall 1999. Applicants must have a Ph.D. in Mathematics by the start date and be committed to teaching undergraduate mathematics in the context of a liberal arts college. Applicants who may increase the department's strengths in applied mathematics are especially welcome but all areas of interest will be considered.

Responsibilities include teaching courses at all levels of the curriculum, directing undergraduate research, and sustaining professional growth.

Applications should include a curriculum vitae, transcripts, three letters of recommendation (at least one addressing teaching effectiveness), and a letter of application addressing the applicant's teaching interests and scholarship goals in a liberal arts environment. Evaluation of applicants will begin on January 4, 1999 and will continue until the position is filled. Mail applications to:

David C. Sutherland, Chair
Department of Mathematics &
Computer Science
1600 Washington Avenue
Conway, Arkansas 72032

Hendrix, a private, residential, baccalaureate liberal arts college related to the United Methodist Church, has a coeducational enrollment of 1,000 students. The Department, with five full-time faculty, has a vigorous undergraduate research program and offers a major in mathematics and a combined major in computer science and mathematics. Hendrix is situated in Conway, Arkansas, a city of 40,000 thirty miles from Little Rock at the foothills of the Ozark Mountains. An equal opportunity employer, the College seeks to increase the diversity within its faculty, staff, and student body. Women and members of minority groups are specifically encouraged to apply.

CALIFORNIA

CALIFORNIA STATE UNIVERSITY NORTHRIDGE

The Department of Mathematics invites applications from **mathematicians with a focus on teacher preparation** for a tenure-track appointment at the assistant or associate professor level effective Fall 1999. The candidate should have a Ph.D. in one of the mathematical sciences, experience in teacher training in a math department, experience in working with public schools, interest in mathematics teaching methodology or strong interest in the area of teacher preparation and potential for success in the training of math teachers. The duties will include, but are not limited to, developing liaisons with teachers and schools in the Los Angeles area, development of standards and curricula for the Secondary Teaching Option in our major and building professional relationships with other departments at CSUN and other universities. In addition the candidate should have a strong commitment to excellence in teaching both at the undergraduate and graduate level, and potential for continuing research. California State University Northridge is a comprehensive university located in the greater Los Angeles area and is in close proximity to major research universities. The Department of Mathematics has 33 full-time faculty members and offers BA, BS and MS degrees. About fifty percent of our undergraduate majors choose the Secondary Teaching Option. Please send a vita, the AMS standard cover sheet and three letters of recommendations, one of which addresses the candidate's teaching abilities, to Magnhild Lien, Chair, Department of Mathematics, CSUN, Northridge, CA 91330-8313 by January 22, 1999. Email (inquires only) math.hiring2@csun.edu. California State University is an Equal Opportunity, Title IX, section 503 and 504 employer.

CONNECTICUT

SOUTHERN CONNECTICUT STATE UNIVERSITY

Mathematics Department

Two tenure track positions at the Assistant Professor rank, one in discrete mathematics, the other in applied mathematics, beginning 8/23/99 to teach undergraduate/graduate courses in mathematics and participate in department/university activities. Teaching load: 12 hours/sem. Salary range: $39,677 to $54,352. Qualifications: doctorate in mathematics with a specialty in discrete mathematics or applied mathematics, evidence of quality teaching, potential for scholarly growth. For the discrete mathematics position, preference will be given to applicants with interest in the applications of discrete mathematics. For the applied mathematics position, preference will be given to applicants with interest in mathematical modeling and in developing student/faculty relationships with business and industry. Send letter of application, vita, transcripts (unofficial OK), statement of teaching philosophy, three letters of reference to Dr. Leo Kuczynski, Mathematics Department, Southern Connecticut State University, 501 Crescent St., New Haven, CT 06515. One letter of reference should address teaching. Applicants should state in their letter of application the position for which they are applying. Full consideration given to applications received by 1/1/99. SCSU is an AA/EOE. Minorities and women encouraged to apply.

TRINITY COLLEGE, Hartford, CT

Lecturer in the Math Center

Full-time, contract position beginning late August 1999. Initial one-year contract with possible multi-year continuing appointment. Five courses per year teaching load. Responsibilities include teaching small sections of quantitative reasoning courses, conducting appropriate research, developing courses and course materials, working with faculty at the college to provide quantitative support for their classes, running workshops and initiating and participating in Math Center programs.

The Center is especially interested in finding an individual who can work with the new Math and Science Resource High School adjacent to the Trinity Campus.

Ph.D. preferred, Master's degree in Mathematics and college teaching experience required. Previous work with high school teachers valuable.

Please send a vita, letter of application, and three letters of recommendation on teaching and professional activities to :

Debra Sombric, Secretary
Mathematics Center
Trinity College
Hartford, CT 06106

Evaluation of applications will begin December 1 and continue until the position is filled. Applicants who will be at the January math meetings should so note. Trinity College is an EO/AA employer. Women and minority candidates are particularly encouraged to apply.

FLORIDA

FLORIDA GULF COAST UNIVERSITY MATHEMATICS

College of Arts & Sciences

Florida Gulf Coast University invites applications for two faculty positions available August 1999. The College of Arts and Sciences offers an innovative degree program in Liberal Studies and is dedicated to quality undergraduate teaching in an inquiry-based, interdisciplinary setting. Candidates will possess a commitment to excellence in teaching, the ability to teach a broad range of undergraduate math courses, experience with computer algebra systems in teaching, experience or interest in developing distance learning courses, and the ability to interact positively with faculty across all Arts and Sciences disciplines and to contribute to interdisciplinary curriculum development. Appointments will be made on 9-mo., multi-yr contract basis.

ASSISTANT PROFESSOR, Pos. #12302. Req'd: Ph.D. in Math conferred by August 1999. Prefer: Prior faculty experience. Area of specialization open. Ability to direct undergraduate research projects is a plus. Continued scholarly activity is expected at a level commensurate with the mission of the university.

INSTRUCTOR, Pos. #12304. Req'd: Master's degree in either math or closely allied discipline with substantial graduate credits in math. Prefer: Some graduate coursework in probabil-

ity and/or statistics. Prior full-time teaching experience is desirable.

To apply, submit two packages for each position. Each package must include a cover letter, curriculum vita, and a list of 5 references postmarked by the deadline date of February 1, 1999 to FGCU, HR Dept., Position #, 10501 FGCU Blvd. South, Ft. Myers, FL 33965-6565. For add'l information, visit our web site at http://admin.fgcu.edu/hr/index.html or call 941-590-1111. Under Florida's Public Records Law, applications submitted are available for public review upon request.

FGCU is an EO/EA/AAI which has a commitment to cultural, racial, and ethnic communities and encourages women and minorities to apply. It is expected that successful candidates share in this commitment.

GEORGIA

VALDOSTA STATE UNIVERSITY
Head, Department of Mathematics and Computer Science

Valdosta State University is seeking applications for a tenure-track, fiscal-year position as Head of the Department of Mathematics and Computer Science at the rank of associate or full professor. Requirements include a Ph.D. in mathematics or computer science and strong teaching and research skills; some administrative experience is preferred. Candidates must have the capability and desire to provide strong leadership and be committed to excellence in undergraduate education, the infusion of technology into the teaching/learning process in mathematics/computer science, and collaboration with the College of Education in the preparation of future teachers and offering faculty development for in-service teachers.

Valdosta State University is a multipurpose regional university in the University System of Georgia, with a current enrollment of over 9,400 students. The Department of Mathematics and Computer Science includes 21 full-time faculty and over 200 undergraduate majors; six degree programs are offered in the department, including applied mathematics and computer information systems. The department also provides core curriculum courses for the university and important service courses for the colleges of Education and Business Administration. The starting date is July 1, 1999,; salary is competitive and is commensurate with qualifications and experience.

Applicants should submit a letter of application; a current curriculum vitae; a summary that includes research interests, computer-related background, and administrative experience; copies of transcripts of all undergraduate and graduate work; and letters from at least three references. All materials and correspondence should be sent to John T. Hiers, Chair, Math/CS Screening Committee, College of Arts and Sciences, Valdosta State University, Valdosta, Georgia 31698. All applications must be received by January 22, 1999, Valdosta State University is an AA/EO employer.

ILLINOIS

DEPAUL UNIVERSITY

DePaul University invites applications for a tenure-track assistant professorship in mathematics beginning September 1999. It seeks candidates actively engaged in a high-quality research program and strongly committed to teaching. Applicants should be interested in helping develop and oversee a broad range of mathematics courses including precalculus, developmental, general education, business mathematics and statistics, and mathematics for K–8 teachers. Preference will be given to candidates able to document involvement in programs or administrative activities designed to improve undergraduate mathematics education. DePaul University seeks a faculty that reflects the diversity of its student body and the city of Chicago. The teaching load is three courses per year with a two-course-per-year load reduction routinely granted to faculty engaged in research.

Address applications to the Search Committee, Department of Mathematical Sciences, DePaul University, 2219 N. Kenmore, Chicago, IL 60614. Applications should include a curriculum vitae, transcripts, three letters of recommendation (at least one providing documentation in support of teaching effectiveness), and a letter descrbing the applicant's teaching interests and research goals.

IOWA

CENTRAL COLLEGE

The Department of Mathematics and Computer Science invites applications for two tenure-track positions in mathematics beginning August, 1999. A Ph.D. is required, as is a commitment to excellence in teaching mathematics at a liberal arts college. Expertise in applied math, statistics, secondary education, or analysis is preferred, but any area of specialization will be considered. Responsibilities include teaching a variety of courses at all levels of the curriculum. Review of applications will begin December 15, 1998, and continue until the positions are filled. A complete position description and application details are available from FacSearch@central.edu. AA/EOE

DORDT COLLEGE

FACULTY POSITION. DORDT COLLEGE is announcing a potential two-year position in the Computer Science/Mathematics department teaching introductory and upper division mathematics and computer science courses. Qualifications preferred: A Ph.D. in computer science with the ability to teach mathematics or a Ph.D. in applied mathematics or statistics.

To learn more about the position and receive application materials, qualified persons committed to a Reformed, biblical perspective and educational philosophy are encouraged to send a letter of interest that provides evidence of that commitment and a curriculum vitae to Dr. Rockne McCarthy; Dordt College; 498 4th Avenue NE; Sioux Center, IA 51250; facsimile; (712) 722-4496; e-mail: vpaa@dordt.edu.

KANSAS

FORT HAYS STATE UNIVERSITY

Mathematics Education: Fort Hays State University, Hays, Kansas. Department of Mathematics and Computer Science. Position: Full-time, tenure-track, beginning August, 1999. Responsibilities: Teach 12 hours per semester; mathematics education and mathematics, primarily at the undergraduate level; service; scholarly activity; and academic advising. An important focus for FHSU is the integration of computer and communications technology into teaching. Minimum qualifications: Doctorate in Mathematics Education (with the equivalent of a Masters in Mathematics) and knowledge of the mathematics needed to teach a broad range of undergraduate mathematics courses. At least one year of full-time teaching experience in grades 6–12 and experience teaching both pre- and in-service teachers are preferred. Applicants should be active in the mathematics education community. Commitment to diversity and working in a multicultural setting highly desirable. Experience in distance learning is desirable. Rank: Assistant Professor. Send letter of application, current vita, a list of all mathematics education and mathematics courses taught, a complete description of scholarly and service activities, three current letters of recommendation regarding teaching and scholarship, and official undergraduate and graduate transcripts. Apply to Dr. Elton Beougher, Search Committee Chair, Department of Mathematics and Computer Science, Fort Hays State University, 600 Park, Hays, Kansas 67601. Priority will be given to applications received by January 15, 1999, and review will continue until the position is filled. AA/EO

PITTSBURG STATE UNIVERSITY

Assistant Professor, tenure track position. Appointment begins August 10, 1999. Qualifications: Doctorate in Statistics or Probability, preferred. Related field or A.B.D. considered. Preference for college teaching experience and Bachelor's in mathematics with graduate work in mathematics. Experience in use of computer technology in instruction desirable. Responsibilities: coordinate teaching of Elementary Statistics, teach upper level and master's level statistics courses. Scholarship and academic service are required. Salary is from a base of $33,000. For first consideration send letter of application, resume, and names of five references with addresses and telephone numbers to Elwyn H. Davis, Chairman, Department of Mathematics, Pittsburg State University, 1701 S. Broadway, Pittsburg, KS 66762, by February 12, 1999. One reference

must be a supervisor. Additional information may be requested at a later date. Search will continue until position is filled. The university is an Equal Opportunity Affirmative Action Employer.

KENTUCKY

MOREHEAD STATE UNIVERSITY
Assistant Professor of Mathematics Education
Morehead State University invites applications for two tenure-track positions as Assistant Professor of Mathematics (Mathematics Education) beginning August 1999. Responsibilities: Teach twelve hours per semester; provide service; advise students; and participate in scholarly productivity and curriculum development. Qualifications: Ph.D/Ed.D in mathematics education with a master's in mathematics, or Ph.D in mathematics or related field supported by experience with K–12 education. ABDs with imminent completion will be considered. Excellent communication skills. Preferred qualifications: Commitment to: 1) an active learning environment; 2) effective use of technology in the classroom; 3) teacher preparation; 4) working with public school educators; 5) involving undergraduate students in research; and 6) active involvement in professional organizations. Candidates desiring to model teaching according to the NCTM Standards are encouraged to apply. To ensure consideration, submit letter of application, curriculum vitae, and three letters of recommendation by January 4, 1999, to: Office of Human Resources, Attn: Math.Ed.#156/#157, Morehead State University, HM 101, Morehead, KY 40351. MSU is an EO/AA employer.

MOREHEAD STATE UNIVERSITY
Assistant Professor of Mathematics
Morehead State University invites applications for two tenure-track positions as Assistant Professor of Mathematics beginning August 1999. Responsibilities: Teach twelve hours per semester including service courses; provide service; advise students; and participate in scholarly productivity. Qualifications: Ph.D in mathematics or Ph.D in statistics or computer science with a master's degree in mathematics. ABDs with imminent completion will be considered. Excellent communication skills. Preferred qualifications: Master's degree or a strong background in computer science or statistics. Experience providing a learning environment in which communication skills are part of the course objectives. Experience teaching mathematics or statistics using graphing calculators and/or computers as an integral part of the teaching strategy. Experience teaching mathematics or statistics in an active learning environment. Commitment to professional development as exhibited by participation at conferences and meetings. To ensure consideration, submit letter of application, curriculum vitae, and three letters of recommendation by January 4, 1999, to: Office of Human Resources, Attn: Math.#158/#159, Morehead State University, HM 101, Morehead, KY 40351. MSU is an EO/AA employer.

MASSACHUSETTS

WILLIAMS COLLEGE
Department of Mathematics
Williamstown, MA 01267
Tenure-eligible position in statistics, beginning Fall, 1999, probably at the rank of assistant professor. In exceptional cases, however, more advanced appointments may be considered. Excellence in teaching and statistics, including scholarship and consulting, and Ph.D. required. Applicants with emphasis in operations research will also be considered.

Please have a vita and three letters of recommendation on teaching and research sent to Hiring Committee. Evaluation of applications will begin November 15 and continue until the position is filled. An an EEO/AA employee, Williams especially welcomes applications from women and minority candidates.

MINNESOTA

UNIVERSITY OF MINNESOTA, MORRIS
Applied Probability/Mathematics
The University of Minnesota, Morris seeks to fill a tenure-track position in applied probability beginning August 16, 1999. The selected candidate will: teach a broad range of undergraduate courses; advise undergraduates; pursue research; and share in governance and development activities. Candidates must expect a Ph.D. in mathematics, probability, operations research or a related field by August 16, 1999. Two years teaching experience at the undergraduate level is required. (Graduate TA experience is acceptable.) The University of Minnesota, Morris is a small, selective, residential, undergraduate liberal arts campus of the University of Minnesota. Salary range: $34,000 to $40,000 depending upon qualifications. Applications must include a letter of application, resume, graduate and undergraduate transcripts, three reference letters, and two statements: (1) a teaching statement in which approaches to teaching are described and past teaching experiences are evaluated, and (2) a research statement in which the applicant proposes a research program that is viable and accessible to advanced students at a small liberal arts college. Send applications to: Applied Probabilist Search Chair, Division of Science and Mathematics, University of Minnesota, Morris, MN 56267-2128. Applications must be received by December 30, 1998. The University of Minnesota is an equal opportunity educator and employer.

UNIVERSITY OF MINNESOTA, MORRIS
Mathematics
The University of Minnesota, Morris seeks to fill a tenure-track position in pure mathematics beginning August 16, 1999. The selected candidate will: teach a broad range of undergraduate courses; advise undergraduates; pursue research; and share in governance and development activities. Candidates must expect a Ph.D. in mathematics (in any area of pure math) by August 16, 1999. Two years teaching experience at the undergraduate level is required. (Graduate TA experience is acceptable.) The University of Minnesota, Morris is a small, selective, residential, undergraduate liberal arts campus of the University of Minnesota. Salary range: $34,000 to $40,000 depending upon qualifications. Applications must include a letter of application, resume, graduate and undergraduate transcripts, three reference letters, and two statements: (1) a teaching statement in which approaches to teaching are described and past teaching experiences are evaluated, and (2) a research statement in which the applicant proposes a research program that is viable and accessible to advanced students at a small liberal arts college. Send applications to: Mathematics Search Chair, Division of Science and Mathematics, University of Minnesota, Morris, MN 56267-2128. Applications must be received by January 4, 1999. The University of Minnesota is an equal opportunity educator and employer.

MISSOURI

MISSOURI WESTERN STATE COLLEGE
Tenure-track, assistant professor fall 99. Mathematics doctorate. Classroom technology & strong communication skills. Teaching 12 undergraduate hours/semester. Institutional service/professional development for promotion & tenure. Deadline: 2-1-99 or filled. Application letter, vita (including e-mail address), statement of technology experience and teaching philosophy, college transcript copies, 3 confidential reference letters to Ken Lee, Search Chair, CSMP Dept., Missouri Western State College, 4525 Downs Dr., St. Joseph, MO 64507. EEO. http://www.mwsc.edu/~csmp/

NEBRASKA

UNIVERSITY OF NEBRASKA AT KEARNEY
Tenure-track Assistant Professor of Mathematics, starting August, 1999. Earned doctorate in Mathematics Education required. Applicants must have a strong background in mathematics and excellent oral and written communication skills. Evidence of successful post-secondary level teaching expected. May teach mathematics at all levels and will fully participate in secondary teacher preparation. Position requires departmental and university service and meaningful research in mathematics education. Preference given to candidates with experience in using technology in teaching and with a K–12 background. Competitive salary and benefits.

Review of applications will start February 1, 1999. Send application letter, curriculum vitae, three letters of reference, and under-

graduate and graduate transcripts to Dr. Barton Willis, Mathematics and Statistics Faculty Search,University of Nebraska at Kearney, Kearney NE 68849. AA/EO/ADA. http://www.unk.edu/

NEW HAMPSHIRE

DARTMOUTH COLLEGE
John Wesley Young Research Instructorship in Mathematics
The John Wesley Young Research Instructorship is a two year post-doctoral appointment for promising new or recent PhD's whose research interests overlap department combinatorics, differential geometry, logic and set theory, number theory, probability and topology.

Teaching duties of 4 ten-week courses spread over two or three quarters typically include at least one course in the instructor's specialty and include elementary, advanced and (at instructor's option) graduate courses. Nine-month salary of $40,000 supplemented by summer research stipend of $8,889 for instructors in residence for two months in summer.

Send letter of application, resume, graduate transcript, thesis abstract, description of other research activities and interests if appropriate, and 3 or preferably 4 letters of recommendation (at least one should discuss teaching) to Betty Harrington, Department of Mathematics, 6188 Bradley Hall, Hanover, NH, 03755-3551. Applications received by Jan. 15 receive first consideration; applications will be accepted until positions are filled. Dartmouth College is committed to affirmative action and strongly encourages applications from minorities and women.

DARTMOUTH COLLEGE
Professor of Mathematics
The Department of Mathematics anticipates a tenure-track opening for an Assistant Professor of Mathematics in the field of combinatorics, with initial appointment in the 1999–2000 academic year. In exceptional cases, an appointment at a higher level is possible. A candidate for the position must be committed to outstanding teaching at all levels of the undergraduate and graduate curriculum and must give evidence of a well-regarded research program that shows real promise for the future. Candidates with several years of experience should in addition be ready to direct Ph.D. theses.

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 four courses spread over two or three quarters. The department encourages good teaching with a combination of committed colleagues and bright, responsive students.

To apply, send a letter of application, curriculum vitae, and a brief statement of research results and interests. Also arrange for four letters of reference to be sent, at least one of which addresses teaching, and, if the applicant's native language is not English, the applicant's ability to use English in a classroom. All application materials should be addressed to Betty Harrington, Recruiting Secretary, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover, NH 03755-3551. Applications completed by January 15 will receive first consideration. Dartmouth 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 can be directed to Dwight Lahr, Recruiting Chair.

KEENE STATE COLLEGE
Mathematics Assistant Professors
Keene State College is a public liberal arts college of the University System of New Hampshire with an enrollment of 5,000 students. The College has been recognized as a leader in American higher education for its commitment to its mission, broad-based strategic planning initiatives, and cohesive sense of community. Historic Mt. Monadnock overlooks a campus of 168 acres in the picturesque city of Keene (population 22,000). Located in the southwestern corner of New Hampshire, Keene provides traditional New England charm, close proximity to abundant four-season recreational attractions, and easy access (2 hours) to Boston, Hartford and Albany.

Keene State College invites applications for two-tenure track Mathematics positions at the Assistant Professor level beginning fall 1999. **Responsibilities:** teach introductory and advanced undergraduate courses in mathematics. All faculty positions include teaching 12 credits per semester, academic advising, curriculum development, committee service and scholarly activity. **Qualifications:** for both positions: doctorate in Mathematics or a related field, evidence of excellence in teaching mathematics at the college level, a strong commitment to teaching, and excellent communication skills are required. For one position, experience and strong interest in applied mathematics is required. For the second position, the area of expertise is open. For either position, experience with the use of technology in teaching and expertise in statistics a plus. Minimum salary for Assistant Professor: $36,500.

Submit letter of application, CV, statement of teaching philosophy, and three letters of reference (at least one of which addresses the candidate's teaching) by **January 27, 1999** to Mathematics Search Committee, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604. **Keene State College will be represented at the January, 1999 AMS/MAA meetings in San Antonio. Application materials received by December 15, 1998 will be considered in scheduling interviews at the meeting.** Keene State College is a member of the Council of Public Liberal Arts Colleges, a national alliance of leading liberal arts colleges in the public sector. As an AA/EEO employer, we actively seek women and minority candidates.

NEW JERSEY

RUTGERS UNIVERSITY
DIMACS Research Experiences for Undergraduates (REU)
Rutgers University, June 6 to August 1, 1999. DIMACS, the Center for Discrete Mathematics and Theoretical Computer Science, is a joint project of Rutgers, Princeton, NEC Research, AT&T Labs, Bellcore, and Bell Labs. Research topics for this summer's REU at DIMACS will include combinatorics, mathematical biology, and computational geometry. Each student will have a DIMACS researcher as a mentor. There may be an optional 2-week trip to our sister center at Charles University in Prague, pending NSF funding. Participants receive a stipend of about $2650, plus housing and travel. Applications are due February 15th. Information: Paul Dreyer, DIMACS, 96 Frelinghuysen Road, Piscataway, NJ 08854 (pdreyer@dimacs.rutgers.edu) or http://dimacs.rutgers.edu/REU.

NEW YORK

NEW YORK CITY TECHNICAL COLLEGE/CUNY
Department of Mathematics
Tenure track assistant professor. Requirements: Ph.D in mathematics; minimum 2 years experience in teaching mathematics courses up to and including calculus; demonstrated ability to interact with students in a multi-cultural environment; excellent communication skills in both written and spoken English; knowledge of computers. Preferred qualifications: expertise in use of graphing calculators and computers in instruction; other forms of innovative pedagogy; experience in grant proposal writing and curriculum development. Applications will be accepted until position is filled. Adjunct positions also available. Requirements: master's degree in mathematics; minimum 2 years experience in teaching mathematics courses in algebra through calculus; good communication skills in both written and spoken English. Resumes to: Dean Thomas M. Carroll, Human Resources, New York City Technical College, 300 Jay Street, Brooklyn, NY 11201. AA/EOE/ADA

SUNY POTSDAM
Assistant Professor of Mathematics: The State University of New York at Potsdam invites applications for full time tenure track position effective September 1, 1999, at the rank of

assistant professor. Responsibilities of the position are to teach twelve hours per semester of undergraduate and first year graduate courses. Required qualifications are a Ph.D. in any area of mathematics with a strong interest in and preparation for teaching undergraduate major mathematics courses. In addition some preparation in computer science is desirable though not essential. Applications, which must include a letter of interest, a statement of the applicant's philosophy of teaching, a resume, three letters of recommendation describing teaching experience and abilities and a transcript (a copy is acceptable) should be sent to: Dr. Kerrith Chapman, Staffing Committee Chair, Math Department, SUNY Potsdam, Potsdam, NY 13676 (chapmakb@potsdam.edu). To ensure full consideration, complete applications must be received by January 20, 1999. State University of New York at Potsdam is an equal opportunity affirmative action employer committed to excellence through diversity.

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Applications are invited for a tenure-track Assistant Professor in Mathematics Education beginning August, 1999. Minimum requirements are a Ph.D. in Mathematics Education with the equivalent of a master's degree in mathematics and potential for high quality research and teaching. Some pre-college teaching experience is desirable. Send a letter of application, vitae, short statement of your teaching and research objectives, and at least three letters of recommendation to Professor Vic Cifarelli, Department of Mathematics, University of North Carolina at Charlotte, NC, 28223. The letters of recommendation should be addressed and mailed directly to Professor Cifarelli. Review of applications will begin December 1 and continue until the position is filled. AA/EOE.

OKLAHOMA

NORTHEASTERN STATE UNIVERSITY

The Department of Mathematics is accepting applications for a full-time tenure-track position, beginning August 1999. Ph.D. required, statistics emphasis preferred. Applicants expected to teach statistics and all levels undergraduate math courses in a four-year undergraduate teaching institution. Send letter of application, vita, and three letters of recommendation to:

Personnel Services
Northeastern State University
Tahlequah, OK 74464

Initial review of applicants begins February 1, 1999.

An equal opportunity/AA employer.

THE UNIVERSITY OF OKLAHOMA

Department of Mathematics

Applications are invited for one full-time, tenured track position beginning 16 August 1999. The position is initially budgeted at the assistant professor level, but an appointment at the associate professor level may be possible for an exceptional candidate with qualifications and experience appropriate to that rank. Normal duties consist of teaching two courses per semester, conducting research, and rendering service to the Department, University, and profession at a level appropriate to the faculty member's experience. The position requires an earned doctorate and research interests that are compatible with those of the existing faculty; preference will be given to applicants with potential or demonstrated excellence in research and prior successful undergraduate teaching experience. Salary and benefits are competitive.

For full consideration, applicants should send a completed AMS cover sheet, curriculum vitae, a description of current and planned research, and have three letters of recommendation (at least one of which must address the applicant's teaching experience and proficiency) sent to:

Search Committee
Department of Mathematics
University of Oklahoma
601 Elm, Phsc. 423
Norman, OK 73019

Telephone: 405-325-6711
Fax: 405-325-7484
E-Mail: search@math.ou.edu

Screening of applications will begin on December 15,1998 and will continue until the position is filled.

The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and Minorities are encouraged to apply. OU has a policy of being responsive to the need of dual-career couples.

PENNSYLVANIA

GETTYSBURG COLLEGE

Mathematics

Gettysburg College invites applications for a tenure-track assistant-professor position in mathematics beginning August 1999. A Ph.D. in mathematics, promise of excellence in teaching, and a commitment to continued scholarship are essential. Applicants are expected to have a strong interest in undergraduate teaching and a desire to involve undergraduate students in their research programs.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore-Washington area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of 2,200 students.

Send letter of application, curriculum vitae, and statements of teaching philosophy and scholarship goals in a liberal-arts environment to: Mathematics Search Committee, Department of Mathematics and Computer Science, Gettysburg College, Gettysburg, PA 17325. Do not send additional information, including letters of recommendation, with your application.

The College also invites applications for two one-year sabbatical replacement positions in mathematics. Please indicate in your letter the position(s) for which you wish to be considered.

Applications received by January 15, 1999 will receive full consideration; applications received after this deadline may be considered until the positions are filled.

The College seeks to promote diversity in its community through its affirmative action/equal opportunity programs; included in an attractive benefits package is a Partner Assistance Program.

SHIPPENSBURG UNIVERSITY

Assistant Professor of Mathematics Education for August 1999

QUALIFICATIONS: Doctorate in Mathematics Education with a masters degree (or equivalent) in mathematics, or Doctorate in Mathematics with a masters degree (or equivalent) in mathematics education. Candidates who will be completing their doctorate within one year will be considered on a contingent contract basis. The position requires excellence in teaching, as well as experience or potential in research and academic service. The successful candidate will be expected to teach secondary mathematics education courses, graduate mathematics education courses and supervise student teachers. A demonstration of teaching effectiveness will be required as part of the interview.

The primary responsibilities are to teach undergraduate mathematics and mathematics education courses, teach graduate mathematics education courses, advise students, conduct research and contribute to the academic climate of the department through writing grants, reviewing the curriculum, serving on committees, and interfacing with regional, secondary-level mathematics teachers.

THE DEPARTMENT: The Department of Mathematics and Computer Science includes 25 full-time faculty members. There are currently 156 computer science majors, 127 mathematics and mathematics education majors, and 69 graduate majors in the department. The department offers graduate programs in computer science, information systems, mathematics and mathematics education. The university computer equipment includes an Alpha 2100 5/250 server computer and approximately 500 networked personal computers. Departmental facilities include a microcom-

puter lab, two computer classrooms, and a Mathematics Education Teaching Lab containing various microcomputers and workstations, all of which are networked and have access to the Internet.

APPLICATION: Candidates must submit copies of graduate and undergraduate transcripts, publications (if any), a one-page statement of teaching philosophy, three letters of recommendation from persons familiar with candidate's professional competence and other appropriate information which demonstrate candidate's satisfactory qualifications. Incomplete applications and applications sent by e-mail will not be considered. Candidates will be judged on teaching effectiveness, research and university service. Review of applications will commence on January 1, 1999, and will continue until the position is filled.

APPLY TO: Mathematics Education Selection Committee, Department of Mathematics and Computer Science, Shippensburg University, Shippensburg, PA 17257. The telephone number is 717-532-1431. Shippensburg University is committed to equal employment opportunity. Women, persons of color, veterans, and the disabled are encouraged to apply.

Check out our homepage at http://ark.ship.edu/~mathcs.

SHIPPENSBURG UNIVERSITY
Instructor/Assistant Professor of Mathematics for August 1999
QUALIFICATIONS: A one-year position in Mathematics. Candidates having a minimum of a Masters degree in mathematics will be considered. The position requires a commitment to excellence in teaching and effective communication skills. Candidates must demonstrate ability to teach the undergraduate mathematics courses offered by the department. The candidate's ability to teach graduate mathematics courses and undergraduate computer science courses will be considered. A demonstration of teaching effectiveness will be required as part of the interview process.

The primary responsibilities are to teach undergraduate computer science courses (24 credits per year), hold office hours and contribute to the academic life of the department.

THE DEPARTMENT: The Department of Mathematics and Computer Science includes 25 full-time faculty members. There are currently 193 computer science majors, 121 mathematics and mathematics education majors, and 69 graduate majors in the department. The department offers graduate programs in computer science, information systems, mathematics and mathematics education. The university computer equipment includes a Digital Equipment Corporation Alpha Server 2100 5/250 computer and approximately 500 networked personal computers. Departmental assets include two computer classrooms, a microcomputer lab, and a Mathematics Education Teaching Lab containing various microcomputers and workstations; all of the department's machines are networked and have access to the Internet.

APPLICATION: Candidates must submit copies of graduate and undergraduate transcripts, a one-page statement of teaching philosophy, publications (if any), three letters of recommendation from persons familiar with candidate's professional competence and other appropriate information which demonstrate candidate's satisfactory qualifications. Incomplete applications and applications sent by e-mail will not be considered. Candidates will be judged on potential for teaching, research and university service. Review of applications will commence on January 1, 1999, and will continue until the position is filled.

APPLY TO: One-Year Mathematics Selection Committee, Department of Mathematics and Computer Science, Shippensburg University, Shippensburg, PA 17257.

Shippensburg University is committed to equal employment opportunity. Women, persons of color, veterans, and the disabled are encouraged to apply.

Check out our homepage at http://ark.ship.edu/~mathcs

SOUTH CAROLINA

COLLEGE OF CHARLESTON
Department of Mathematics
Applications are invited for a tenure-track position in mathematics at the Assistant Professor level starting in August 1999. The Mathematics Department at the College of Charleston has 29 full-time faculty and offers the B.S. and M.S. degrees in mathematics and participates in a joint M.Ed. in mathematics and science. Candidates must have a Ph.D. in one of the mathematical sciences, a commitment to undergraduate and graduate teaching, and potential for continuing research. Preference will be given to applicants experienced in mathematics education who demonstrate the potential for securing external grants. The normal teaching load is 9 hours per week for those engaged in research. The salary is competitive. Faculty from the College of Charleston will be available to meet with applicants at the AMS/MAA Annual Meeting in San Antonio. Applicants should send a vita and have three letters of recommendation sent to Deanna Caveny, Chair, Department of Mathematics, College of Charleston, Charleston, SC 29424-0001. Additional information available by visiting http://math.cofc.edu or e-mailing cavenyd@cofc.edu. The process of evaluating applications will begin on January 18, 1999, but applications will be considered until the position is filled. The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from minority and women candidates.

TENNESSEE

UNIVERSITY OF TENNESSEE - KNOXVILLE
The Mathematics Department of The University of Tennessee seeks to fill two tenure track assistant professorships: (1) in probability and stochastic processes, with preference shown to those candidates working in such areas of applied probability as communication networks, mathematical biology and genetics, and mathematical finance, and (2) in computational mathematics, with preference shown to those candidates pursuing new and innovative research in applications of computational mathematics to material sciences, biology, or finance. A Ph.D. is required. Some postdoctoral experience is preferred, but not required. Substantial research promise as well as dedication to teaching are paramount. Employment begins August 1, 1999.

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, Probability Search or Computational Math Search, (whichever applies), Mathematics Department, University of Tennessee, Knoxville, TN 37996–1300. Electronic applications are not acceptable. Use of the recent AMS application form is appreciated. Review of applications will begin December 1 and will continue until the position is filled. Information about the department can be found at http://www.math.utk.edu/.

UTK is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA employer.

TEXAS

SAM HOUSTON STATE UNIVERSITY
Chairperson
Department of Mathematical and Information Sciences (comprising Mathematics, Computer Science, and Statistics). Position begins July 1, 1999. Qualifications: Expertise in academic administration, scholarship, teaching, research, and extramural funding.

Review begins January 15, 1999. Send application letter, vita, and four reference letters to: Chair Selection Committee, SHSU Box 2206, Huntsville, TX 77341. EE/AAP.
Email: chsearch@leibniz.shsu.edu
Web: galois.shsu.edu/~webpages/mthstacs.html

TEXAS LUTHERAN UNIVERSITY
<www.txlutheran.edu>
The Department of Mathematics invites applications for a tenure-track position at the assistant professor level starting in August 1999. Requirements for the position include a Ph.D. in mathematics by date of appointment, ability to teach effectively a wide range of introductory and advanced courses in the undergraduate curriculum, and a commitment to establish a research program suitable for undergraduate students.

Send letter of application, curriculum vitae, copies of transcripts, statement of teaching philosophy, and five references (name, address, phone) to: Frank Giesber, Ph.D., Interim Provost, Texas Lutheran University, 1000 W. Court St., Seguin, TX 78155; fax (830) 372-8008, e-mail: fgiesber@txlutheran.edu. Review of applications will begin November 20, 1998 but applications through the month of December are strongly encouraged. Review will continue until the position is filled. We are dedicated to Equal Opportunity/Affirmative Action in the workplace.

UNIVERSITY OF HOUSTON - CLEAR LAKE
Department of Mathematical Science

Applications are being invited for a tenure track opening for an assistant professor of mathematics, to begin August 1999. The department seeks candidates whose mathematical interests complement those of current faculty. Preference will be given to candidates in the fields of algebra, number theory or complex analysis. A Ph.D. in mathematics or the expectation of successful completion of a Ph.D. in mathematics by May 1999 is required. The successful candidate will be expected to teach undergraduate and graduate courses in mathematics, to conduct mathematical research, and to perform university service.

The University of Houston - Clear Lake is an upper-level institution with an enrollment of 7000 located adjacent to the Johnson Space Center. It offers degree programs at the bachelor's and master's level. The mathematical science area offers bachelor's and master's degrees in mathematics, master's degrees in statistics, courses supporting the natural and applied sciences and courses in support of the certification of elementary and secondary teachers.

Please send a letter of application, vita, AMS Cover Sheet, and three letters of recommendation under separate cover to Norman Richert, Chair, Mathematical Science, Search Committee, University of Houston - Clear Lake, 2700 Bay Area Blvd., Houston, TX. 77058. Preliminary interviews for those whose applications have been received by January 11, 1999 will be held at the Joint Mathematical Meetings in San Antonio (January 1999). The University of Houston - Clear Lake is an AA/EEO employer.

UNIVERSITY OF THE INCARNATE WORD
Department of Mathematics

The University has an opportunity for a person to participate in the development and implementation of an exciting new Ph.D. program in Mathematics Education. Requirements: Ph.D. in Mathematics Education or Ph.D. in Mathematics, published in mathematics education research, experienced in teaching, with research interests compatible with this university. This person will teach courses at the graduate and undergraduate level, and direct and support Doctoral and Master's level work. UIW is a Catholic liberal arts university. Candidate should be committed to excellence in teaching and our mission. Review of candidates will begin immediately. The open rank search will continue until the tenure track position is filled. Salary appropriate for rank and experience. Include a letter of interest, three letters of recommendation, a vita, and unofficial graduate and undergraduate transcripts, send to Dr. Judy Beauford, University of the Incarnate Word, 4301 Broadway, San Antonio, Texas 78209. EOE.

UTAH

WEBER STATE UNIVERSITY

Applicants with strong Mathematics Education credentials are invited to apply for a tenure-track position in the Mathematics Department, to begin Autumn 1999. See www.weber.edu and click on employment for the math ad. AA/EOE.

VIRGINIA

LONGWOOD COLLEGE

The Department of Mathematics and Computer Science invites applications for an Instructor/Assistant Professor position in mathematics education beginning August 1999. Professional responsibilities may include teaching undergraduate mathematics and mathematics education courses and supervising student teachers. Strong mathematics background and successful college and K–12 teaching experience required. Ph.D. or Ed.D. in mathematics education preferred, ABD or Masters considered. This is a one-year appointment with the possibility of renewal. The Department offers Bachelor's degrees in Mathematics and Computer Science. Mathematics education has always been a mission of the College, and many of our students certify to teach. Faculty members generally teach four courses per semester at all levels of the undergraduate curriculum and are also expected to advise effectively, to make service contributions, and to engage in scholarship and professional activity. Salary and rank are commensurate with credentials and experience. Review begins December 1. To apply, please send a letter of application, vita, a statement of teaching philosophy and research goals, transcripts, and telephone numbers of three references to: Human Resources, Math Ed Search, Longwood College, 201 High Street, Farmville, Virginia 23909. Longwood College is an Equal Opportunity, Affirmative Action Employer. The College encourages applications from qualified women and minority candidates. Smoke-free campus.

NATIONAL SCIENCE FOUNDATION
Division of Mathematical Sciences

POSITIONS. Several of the technical staff of the Division of Mathematical Sciences of the National Science Foundation serve on 1-2 year 'Visiting Scientist' or 'Intergovernmental Personnel Act' appointments as Program Directors while on leave from universities, colleges, industry or national laboratories. Since the timing of these positions is staggered, the Division continually seeks talented applicants. In 1999 the Division will be seeking to make appointments in all areas. 'Permanent' Program Director appointments will be considered.

The positions involve responsibility for the planning, coordination, and management of support programs for research (including multidisciplinary projects), infrastructure, and human resource development for the Mathematical Sciences. Normally, this support is provided through merit-reviewed grants and contracts that are awarded to academic institutions and nonprofit, nonacademic research institutions.

QUALIFICATIONS. Applicants should have a Ph.D. or equivalent training in a field of the mathematical sciences, a broad knowledge of one of the relevant disciplinary areas of the Division of Mathematical Sciences, some administrative experience, a knowledge of the general scientific community, skill in written communication and preparation of technical reports , an ability to communicate orally, and several years of successful independent research normally expected of the academic rank of associate professor or higher. Skills in multidisciplinary research are highly desirable.

Qualified individuals who are women, ethnic/racial minorities, and/or persons with disabilities are strongly urged to apply. No person shall be discriminated against on the basis of race, color, religion, sex, national origin, age or disability in hiring by the National Science Foundation.

Applicants should send letter of interest and vita to:

Dr. Bernard R. McDonald, Executive Officer
Division of Mathematical Sciences
National Science Foundation
4201 Wilson Boulevard, Suite 1025
Arlington, Virginia 22230
Phone: 703/306-1870
FAX: 703/306-0555

WASHINGTON

WESTERN WASHINGTON UNIVERSITY

Tenure-track Assistant or Associate Professor; begin Fall 1999. May be limited-term position if suitable tenure-track candidates are not available. Algebra, analysis or combinatorics preferred. PhD, refereed publications and evidence of effective teaching required. Productive grant-funded research expected. Commitment to undergraduate instruction essential. WWU has 500 faculty and 11,500 students beside Bellingham Bay between Seattle and Vancouver, with access to excellent recreational and metropolitan opportunities. Details from www.wwu.edu/~mathweb or the address below. Submit summary, vita, transcripts, description of accomplishments, and

four references by Jan. 15, 1999 to: Math Search Committee, Math, WWU, Bellingham, WA 98225-9063. Tel: (360) 650-3785. Fax: (360) 650-7788. Disability accom: (360) 650-3306; 650-7606 (TTY). No electronic applications. AA/EEO.

WISCONSIN

UNIVERSITY OF WISCONSIN-LA CROSSE

The Mathematics Department at the University of Wisconsin-La Crosse invites applications for one (and possibly more, depending on budget approval) tenure-track assistant professor position(s) in mathematics, beginning August 1999. Responsibilities: Teach both introductory and advanced mathematics courses (average 12 hours per semester); maintain a productive program of research in mathematics (directing undergraduate student research is strongly encouraged); contribute to departmental, college and university service activities. Qualifications: Ph.D. in mathematics (anticipated by August 1999); evidence of successful college/university teaching; experience (or demonstrated potential) in directing undergraduate students on research projects is desirable; for the first position preference will be given to outstanding candidates with backgrounds in applied and/or computational mathematics. Applicants should submit an AMS Cover Sheet, a letter of application, a curriculum vitae, undergraduate and graduate transcripts, and arrange to have three letters of recommendation (at least one commenting on teaching) sent to:

Bruce Riley
Mathematics Department
University of Wisconsin-La Crosse
La Crosse, WI 54601

Applications must be received by February 5, 1999. AA/EOE

UNIVERSITY OF WISCONSIN-PLATTEVILLE

Three tenure track positions, one each in mathematics, mathematics education (elementary level) and statistics. A commitment to teaching excellence is required, as well as involvement in the activities of the Department, the University and the profession. Experience and Ph.D. in area preferred. Send application, vitae, a summary of teaching philosophy, transcripts and three letters of recommendations, at least one of which addresses teaching to Fredric Tufte, Chair, Dept. of Mathematics, UW-Platteville, Platteville, WI, 53818. Review will begin Dec. 1. Additional information is available at WWW site: http://vms.www.uplatte. edu/~math/.

UW-Platteville is an affirmative action, equal opportunity employer. Minorities and women are especially encouraged to apply. The names of nominees and applicants who have not requested in writing that their indentities be kept confidential, and of all finalists, will be released upon request.

FELICIAN COLLEGE

DEPARTMENT OF MATHEMATICS AND COMPUTING SCIENCE

Full-Time Position in Mathematics and Computing Science

We invite applications for a full-time combined position in mathematics and computing science beginning in August 1999. Applicants must have an earned doctoral degree in mathematics or computing science and be able to teach a wide range of courses in both areas. Experience in curriculum development is preferred. Interviews will be held at the annual meeting of the AMS in January. A letter of interest, curriculum vitae, the names of three references, and evidence that supports effective teaching should be sent to:

Dr. Beate Schiwek
Vice President and Dean for Academic Affairs
Felician College, 262 South Main Street
Lodi, NJ 07644

Felician College is an Equal Opportunity, Affirmative Action Employer

National Meetings

January 13–16, 1999 82nd Annual Meeting, San Antonio, TX; Board of Governors January 12, 1999

January 19–22, 2000 83rd Annual Meeting, Washington, DC; Board of Governors January 18, 2000

January 10–13, 2001 84th Annual Meeting, New Orleans, LA; Board of Governors January 9, 2001

Section Meetings Early 1999

Allegheny Mountain April 9–10, 1999, Allegheny College, Meadville, PA

Eastern PA & Delaware April 18, 1999, Shippensburg University, Shippensburg, PA

Florida March 5–6, 1999, Florida Gulf Coast Community College, Panama City, FL

Illinois April 9–10, 1999, Augustana College, Rock Island, IL

Indiana March 26–27, 1999 Indiana University, Bloomington, IN

Iowa April 16–17, 1999, University of Iowa, Iowa City, IA

Kentucky March 26–27, 1999, University of Louisville, Louisville, KY

Louisiana-Mississippi March 5–6, 1999, Jackson State University, Jackson, MS

MD-DC-VA April 9–10, 1999, James Madison University, Harrisonburg, VA

Metropolitan New York May 1, 1999, Hofstra University, Hempstead, NY

Michigan May 7–8, 1999, Eastern Michigan University, Ypsilanti, MI

Missouri April 9–10, 1999, Rockhurst College, Kansas City, MO

Nebraska-Southeast South Dakota April 1999, Hastings College, Hastings, NE

New Jersey April 10, 1999, College of New Jersey, Trenton, NJ

North Central April 16–17, 1999 Carleton College, Northfield, MN

Northeastern June 4–5, 1999, Colby College, Waterville, ME

Northern California February 20, 1999, Ohlone College, Fremont, CA

Ohio March 26–27, 1999, University of Dayton, Dayton, OH

Oklahoma-Arkansas March 26–27, 1999, Southern Nazarene University, Bethany, OK

Pacific Northwest March 13, 1999, Willamette University, Salem, OR

Rocky Mountain April 1999, Adams State College, Alamosa, CO

Seaway April 23–24, 1999, Syracuse University, Syracuse, NY

Southeastern March 12–13, 1999, Rhodes College, Memphis, TN

Southwestern April 9–10, 1999, Western New Mexico University, Silver City, NM

Southern California March 13, 1999, University of California, San Diego, CA

Texas April 8–10, 1999, Southwest Texas State University, San Marcos, TX

Wisconsin April 23–24, 1999, University of Wisconsin-La Crosse, WI

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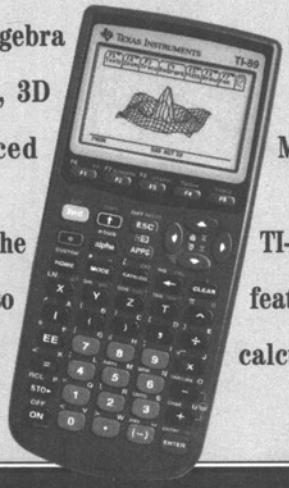

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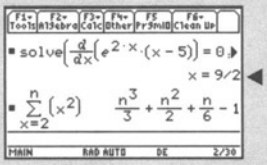
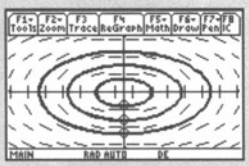
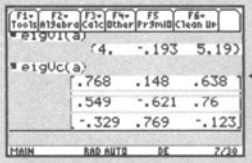


Symbolic Manipulation

Differential equations with slope and direction fields.





Linear Algebra

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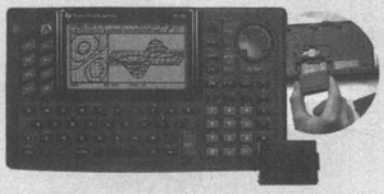

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TEXAS INSTRUMENTS

1-800-TI-CARES (Canada & U.S.) ti-cares@ti.com www.ti.com/calc

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