

PROJECT NExT POSTER SESSION

Project NExT and the Young Mathematician's Network invite submissions of abstracts for a poster session to be held on Monday, January 7, 2002 from 2:00 to 4:00 p.m. at the Joint Mathematics Meetings in San Diego. The room location is to be announced. 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 available 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. 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> AND 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>

Our poster sessions the past five 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 11, 2001. Preference will be given to those who did not earn a Ph.D. prior to 1996; 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 email, 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.

SINGULARITY THEORY AND GRAVITATIONAL LENSING

The 2000 David Blackwell Lecturer was Arlie O. Petters. Dr. Petters also coorganized CAARMS 7. Now there is a book, Singularity Theory and Gravitational Lensing by A. O. Petters, H. Levine, and J. Wambsganss. In gravitational lensing, the image from a distant cosmic object appears to split into multiple images due to the effect of gravitational force exerted by massive intervening objects between them and Earth. Here it is mathematically demonstrated how gravity from not just one or two objects but multiple objects at various cosmic distances will split passing light into images, including their number and magnification. This a tour de force of Mathematical Physics.

ALMOST AUTOMORPHIC AND ALMOST PERIODIC

In addition to editing the CAARMS 6 Journal, Dr. Gaston N'Guerekata of Morgan State University has written a new book, Almost automorphic and almost periodic functions in abstract spaces, published by Kluwer Academic/Plenum Publishers, New York, N.Y., 2001.

This book introduces and develops in a fairly homogeneous and unified manner the theory of almost automorphic vector-valued functions in Bochner's sense and the study of almost periodic functions in a locally convex space. It also applies the results obtained to study almost automorphic solutions of some abstract differential equations. This reference has a flair of innovation in that for the first time ever, the main topics are presented along with a plethora of ground-breaking new results in a book format.

The presentation is rather basic and for the sake of clarity, the concepts are studied using classical methods of functional analysis. Efforts have been made to spare the reader of unnecessary technical hurdles.

JOB OPENINGS

Job Openings Web Site

Recall that for several years, NAM has had a web site with job openings. 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/NAM-index.html>

UNIVERSITY OF BUFFALO, SUNY

The Department of Mathematics anticipates the appointment of several tenure-track assistant professors, effective August, 2002. Salary will be competitive. We seek candidates from all fields, particularly Applied Mathematics and Geometry/Topology. 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 1, 2001. Late applications will be considered until positions are 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.

INSTITUTE FOR ADVANCED STUDY

The School of Mathematics has a limited number of memberships, some with financial support for research in mathematics at the Institute during the 2002-03 academic year. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree. The special program for the year will focus on stochastic PDE and models of turbulence, and both Weinan E and John Ball will be in residence. For a brief description of the program and information about application materials and deadline, please consult "Activities" and "How To Apply" on our homepage at: <http://www.math.ias.edu>.

MATHEMATICAL ASSOCIATION OF AMERICA

The Mathematical Association of America is seeking a Director of Programs and Services. Information on the position will appear in the November 2001 issue of FOCUS and on the MAA website, www.maa.org.

UNIVERSITY OF ILLINOIS AT CHICAGO

Dept. of Mathematics, Statistics, and Computer Science.

The Department has active research programs in all 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, 2002.

At least one Tenure track or tenured position. Candidates in all areas of interest to the Department will be considered. The position 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. Salary negotiable.

Research Assistant Professorship/VIGRE Postdoctoral Fellowship. This is a non-tenure track position, normally renewable annually to a maximum of three years. This position is partially funded by a VIGRE grant from the NSF and is open only to U.S. citizens, nationals or permanent residents. The position carries a teaching load of one course per semester, with the requirement that the incumbent play a significant role in the research life of the Department. The salary for AY 2001-2002 for this position is \$45,000; the salary for AY 2002-2003 may be higher; in each of the first two years 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.

There may also, subject to availability of funds, be one or more "non-VIGRE" Research Assistant Professorships available, which would not be subject to these nationality requirements.

Send vita and direct 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 9, 2001, for the tenure/tenure track positions, and December 30, 2001 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.

UNIVERSITY OF CALIFORNIA AT BERKELEY

Charles B. Morrey Jr. Assistant Professorship

We invite applications for these special (nontenure-track) positions effective July 1, 2002. 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. Send to Department of Mathematics, University of California at Berkeley, Berkeley, CA 94720.

Applications must be postmarked by December 1, 2001. Applications postmarked after the deadline will not be considered. The University of California is an Equal Opportunity, Affirmative Action Employer.

Temporary Postdoctoral Positions

We invite applications for these special (nontenure-track) positions effective July 1, 2002. 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. Send to Department of Mathematics, University of California at Berkeley, Berkeley, CA 94720.

Applications must be postmarked by December 1, 2001. 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, 2002 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. Send to Department of Mathematics, University of California at Berkeley, Berkeley, CA 94720.

Applications for both Tenure track and Tenure applications must be postmarked by November 15, 2001. Applications postmarked after the deadline will not be considered. The University of California is an Equal Opportunity, Affirmative Action Employer.

BOWLING GREEN STATE UNIVERSITY

Analysis/Mathematics Education

The Department of Mathematics and Statistics invites applications for the following tenure-track positions starting August, 2002. (1) Assistant Professor or Associate Professor: Mathematics Education; (2) Assistant Professor: Analysis. Preference will be given to candidates who can contribute to the graduate and undergraduate programs and broaden or complement current faculty research. Usual duties consist of teaching two courses each semester, conducting scholarly research, seeking external funding, and participating in service activities. For further information see www.bgsu.edu/departments/math/.

To apply send a cover sheet (AMS cover sheet preferred), curriculum vitae, three current letters of reference (one concerning teaching) to Search Committee, Department of Mathematics & Statistics, Bowling Green State University, Bowling Green, OH 43403-0221. Applications must be postmarked by December 31, 2001. FAX or electronic applications cannot be considered. BGSU is an AA/EO employer and encourages applications from women, minorities, veterans, and individuals with disabilities.

Statistics

The Department of Mathematics and Statistics invites applications for a tenure-track or tenured position at the rank of Associate Professor or Professor in the area of Statistics beginning August, 2002. PhD in Statistics or closely related area required. Preference will be given to candidates who can contribute to the graduate and undergraduate programs and broaden or complement current faculty research. Usual duties consist of teaching two courses each semester, conducting scholarly research, seeking external

funding, and participating in service activities. For further information see www.bgsu.edu/departments/math/.

To apply send a cover sheet (AMS cover sheet preferred), curriculum vitae, three current letters of reference (one concerning teaching) to Search Committee, Department of Mathematics & Statistics, Bowling Green State University, Bowling Green, OH 43403-0221. Applications must be postmarked by November 1, 2001. FAX or electronic applications cannot be considered. BGSU is an AA/EO employer and encourages applications from women, minorities, veterans, and individuals with disabilities.

DARTMOUTH COLLEGE

John Wesley Young Research Instructorship

The John Wesley Young Research Instructorship is a two-year post-doctoral appointment for promising new or recent PhD'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. Teaching duties of four 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 \$43,000 supplemented by summer research stipend of \$9,555 for instructors in residence for two months in summer.

Send letter of application, résumé, 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 January 5 receive first consideration; applications will be accepted until position is filled. Dartmouth College is committed to affirmative action and strongly encourages applications from minorities and women.

Applied Mathematics

Dartmouth College is the recent recipient of an NSF/NIMH award to establish a fMRI Data Center (see <http://www.fmridc.org>). This is a joint effort of Dartmouth's Department of Mathematics, Center for Cognitive Neuroscience and Department of Computer Science. In conjunction with the Center, the Department of Mathematics is now accepting applications for a two-year Postdoctoral Fellow in Applied Mathematics, initial appointment in the 2002-2003 academic year. Fellows will be expected to teach one graduate seminar each year (in their specialty), and to help in the implementation and development of novel post-processing tools for the Center. Fellows will interact with all of the cooperating departments. The ideal applicant will have strong interdisciplinary interests and have a background in informatics, image or signal processing, or medical imaging, but applicants with strong mathematical backgrounds who are looking to become more applied and learn about data mining, medical imaging or image processing may also be excellent candidates.

Send letter of application, resume, graduate transcript, thesis abstract (and 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, Dartmouth College, Hanover, NH, 03755-3551. Dartmouth College is committed to affirmative action and strongly encourages applications from minorities and women.

Tenure Track

The Department of Mathematics anticipates three tenure-track openings with initial appointment in the 2002-2003 academic year. The positions are in logic/set theory, or 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 exceptional cases an appointment at a higher level may be possible.

Candidates for any 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 5 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.

KENYON COLLEGE

Mathematics and Biology

The departments of Biology and Mathematics at Kenyon College invite applications for a joint interdisciplinary tenure-track position at the assistant professor level in a field of computational or mathematical biology. Areas of special interest may include: Biomathematics, Quantitative ecology or evolutionary biology, Modeling of organisms or populations, Computational approaches to cellular or molecular biology, Biostatistics or bioinformatics. The successful candidate will teach courses in both the departments of Mathematics and Biology, and conduct a vigorous research program involving undergraduates. Generous start-up funds are provided, including support from an award to Kenyon from the Howard Hughes Medical Institute. The candidate will work with current faculty to develop new collaborative teaching and research in computational and mathematical biology. The candidate's primary appointment will be in the individual department of her/his choice. Qualifications include a Ph.D. in an appropriate discipline, demonstrated commitment to excellent instruction, and the ability to initiate and maintain research with undergraduates.

Applicants should send a curriculum vitae, a statement of teaching philosophy and interests, a research statement (including a summary of accomplishments and direction of future research), graduate and undergraduate transcripts, and three (3) letters of recommendation to: Mathematics and Biology Search Committee, Wendy Busenburg, Higley Hall, Kenyon College, Gambier, OH 43022. Review of complete applications will begin on December 1, 2001, and will continue until the position is filled. For more information, contact the Search Committee Chair via e-mail at mathbiol@kenyon.edu. Kenyon College is an Equal Opportunity Employer, especially committed to building a diverse faculty.

MIAMI UNIVERSITY

Oxford, Ohio

Applications are invited for one (and possibly two) tenure-track assistant professorship(s) to start in fall 2002. Only candidates with primary research interest in applied mathematics will be considered. Preference will be given to candidates with a strong background in modeling, industrial mathematics, numerical analysis, optimization, or mathematical programming. Applicants must have a Ph.D. by

August 2002 in the mathematical sciences and strong credentials or demonstrated potential for both research and teaching.

Send an AMS cover sheet, curriculum vitae, description of current research, statement of teaching philosophy, and three letters of recommendation to: Mathematics Search Committee, Department of Mathematics and Statistics, Miami University, Oxford, OH 45056. At least one letter should address teaching ability. Review of applications will begin on December 1, 2001. Miami University is an affirmative action, equal opportunity employer: women and minority candidates are encouraged to apply.

MATHEMATICAL SCIENCES RESEARCH INSTITUTE

The Mathematical Sciences Research Institute in Berkeley, California, solicits applications for membership during the 2002-2003 year, which will feature three programs:

Commutative Algebra (August 19, 2002 - May 16, 2003)

Quantum Computation (August 19 - December 20, 2002)

Semi-Classical (January 2 - May 16, 2003)

In addition, MSRI continues the COMPLEMENTARY 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 1996 or earlier. Deadline: Sept. 28, 2001. Postdoctoral Fellowships: support for five or ten months, intended for mathematicians with PhDs awarded 1997 or later. Deadline: Nov. 16, 2001. General Memberships: partial support toward living and travel expenses. Deadline: Nov. 16, 2001.

Information and application form available from <http://www.msri.org> or by writing to Applications, MSRI, 1000 Centennial Dr., Berkeley, CA 94720-5070.

PURDUE UNIVERSITY

Department of Mathematics

Applications are invited for tenure-track Assistant Professor or three-year Research Assistant Professor appointments beginning August 2002. Ph.D. by August 2002, 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 all 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 2002.

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: Carl Cowen, Head, Department of Mathematics, Purdue University, West Lafayette, IN 47907-1395.

Review of applications will begin November 15, 2001 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 2002.

Purdue is an Affirmative Action/Equal Opportunity Employer.

NORTHWESTERN UNIVERSITY

Boas Assistant Professor

Applications are solicited from people whose research is related to Nonlinear Partial Differential Equations and related analysis for two Ralph Boas assistant professorships of three years each starting in September 2002. These positions are non-tenure track and are part of the Emphasis Year in Nonlinear Partial Differential Equations which the department will be sponsoring in 2002-2003. Applications should be sent to the Emphasis Year Committee, Department of Mathematics, 2033 Sheridan Road, Evanston, Illinois 60208-2730 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.nwu.edu](mailto: hiring@math.nwu.edu)

Applications are welcomed at any time, but the review process starts December 1, 2001. 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 Position

Applications are invited for anticipated tenure-track or tenured positions starting September 2002, 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, Department of Mathematics, 2033 Sheridan Road, Evanston, Illinois 60208-2730 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.nwu.edu](mailto: hiring@math.nwu.edu)

Applications are welcome at any time, but the review process starts in October 2001. Northwestern University is an affirmative action, equal opportunity employer committed to fostering a diverse faculty; women and minority candidates are especially encouraged to apply.

WESTERN MICHIGAN UNIVERSITY

Western Michigan University seeks applications for two tenure-track assistant professors for Fall 2002. We are interested in individuals whose research interests will complement or enhance the existing strengths of the Department. Areas of particular interest include: algebraic geometry, algebraic topology, applied mathematics, collegiate mathematics education, combinatorics/graph theory, control theory, differential equations, differential geometry, Lie/representation theory, matrix analysis/operator theory, numerical analysis, optimization. For additional details, see the Department's web page at <http://www.wmich.edu/math-stat>.

Western Michigan University, a student-centered research university, encourages applications from underrepresented groups. Send letter of application, AMS cover sheet, vita, statement of research, teaching philosophy, graduate transcripts, and four letters of reference (one letter should address the candidate's teaching) to: Jay Wood, Chair, Department of Mathematics, Western Michigan University, 1903 W. Michigan Avenue, Kalamazoo, MI 49008-5248. Review of applications will begin November 1, 2001 and continue until the positions are filled. The positions are contingent upon authorization of funding.

YORK UNIVERSITY

Operations Research or Applied Discrete Mathematics

Applications are invited for a tenure-track appointment at the Assistant Professor level in the Department of Mathematics and Statistics