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THE MATHEMATICAL ASSOCIATION · OF AMERICA ·

Michigan Section – MAA

NEWSLETTER

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IN THIS ISSUE:
Multiculturalism in Mathematics
Photos from the 2001 Annual Meeting

Mathematical Association of America
Michigan Section Newsletter
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Abbreviations

C = College	MTU = Michigan Technological U
CC = Community College	NMU = Northern Michigan U
CMU = Central Michigan U	OU = Oakland U
EMU = Eastern Michigan U	SHU = Siena Heights U
FSU = Ferris State U	SVSU = Saginaw Valley State U
GVSU = Grand Valley State U	U = University
KU = Kettering U	UDM = U of Detroit Mercy
LSSU = Lake Superior State U	UM = U of Michigan
LTU = Lawrence Technological U	WMU = Western Michigan U
MSU = Michigan State U	WSU = Wayne State U

Calendar of Events

January 6–9, 2002	MAA/AMS Annual Meeting, San Diego
January 12, 2002	MMPC Grading Day, Albion C, Albion
February 16, 2002	MI Undergrad. Conference, Calvin C, Gr. Rapids
March 2, 2002	MMPC Awards Banquet, Albion C, Albion
April 5–6, 2002	Ohio Section Meeting, Xavier U, Cincinnati
April 22–24, 2002	NCTM Annual Meeting, Las Vegas
May 10–11, 2002	Michigan Section Meeting, LTU, Southfield
August 1–3, 2002	MAA MathFest, Burlington, VT
November 14–17, 2002	AMATYC Annual Meeting, Phoenix
January 15–18, 2003	MAA/AMS Annual Meeting, Baltimore
April 10–12, 2003	NCTM Annual Meeting, San Antonio
April or May, 2003	Michigan Section Meeting, SVSU, Saginaw
November 13–16, 2003	AMATYC Annual Meeting, Salt Lake City
January 7–10, 2004	MAA/AMS Annual Meeting, Phoenix
April 22–24, 2004	NCTM Annual Meeting, Philadelphia
April or May, 2004	Michigan Section Meeting, OU, Rochester
November 18–21, 2004	AMATYC Annual Meeting, Orlando
April 7–9, 2005	NCTM Annual Meeting, Anaheim
April or May, 2005	Michigan Section Meeting, Alma C, Alma
April or May, 2006	Michigan Section Meeting, Calvin C, Gr. Rapids

The Web has all the information

Detailed information about most of the events shown above can be obtained from the relevant organizations' Web sites, such as www.maa.org (with links for all the sections), www.nctm.org, www.mictm.org, and www.amatyc.org. For the MUMC on February 16, see page 12.

On the Cover

This October Northern Michigan University dedicated its new $47 million Glenn T. Seaborg Science Complex, which houses several departments, including mathematics, as well as classrooms and laboratories. This is a view of the impressive atrium. The complex is named in honor of the Michigan native who shared the 1951 Nobel Prize for Chemistry as the co-discoverer of plutonium. He was also credited with discovering 10 transuranium elements and more than 100 isotopes. In 1997, he enjoyed the honor of being one of few living scientists to have an element named after him.

Chairperson's Report

Counting my blessings after September 11, among them the Section, and the work we do to further mathematics, our network of colleagues, our work with students, and much more. I would particularly like to thank the folks named below.

John Kiltinen (NMU) has done a splendid job in his three years as Governor. John has served the Section for many years in many capacities. Jerry Grossman (OU) is our new Governor. Jerry has been Newsletter editor for the last 5 years. He would like a replacement now that he has additional responsibility. He has the Newsletter production down to a (mathematical?) science, and would be glad to share the details with prospective editors. See page 30 for more details.

John Mooningham (SVSU), as Four-year College Vice Chair and chair of the Program Committee, is busy planning our annual meeting. His report appears below (see also the Call for Papers on page 33). Mike Merscher (LTU) is chair of the Local Arrangements Committee. Thanks to Janet Andersen (Hope C) and everyone at Hope for a well-run meeting last April.

Bob Messer (Albion C) is in his third (and last) year of doing an exceptional job running the MMPC, our most prominent activity. We need someone to take over this considerable operation. Negotiations are ongoing, but we also need to look ahead. Bob Xeras (SHU, retired), our PIO, has successfully publicized our activities (e.g., MMPC, Putnam honorees). Welcome to Robert Molina (Alma C) as MAA Liaison Coordinator.

Randall Pruim (Calvin C) is organizing the Michigan Undergraduate Mathematics Conference (see page 12), taking over from Paul Fishback (GVSU). Thanks to Paul and his colleagues at GVSU for last year's superb conference. Randy has agreed to take over the position of Student Activities Coordinator from Paul.

Paul Fishback and Steve Schlicker (GVSU) are retiring from running the High School Visiting Lecture Program and would like someone to take it over. Check out the HSVLP page on `www.michmaa.org`. They have it well organized. We need volunteers for the job; contact them to find out what is involved (see page 3). And speaking of the Web, check out our Web site maintained by our Webmaster Earl Fife (Calvin C). Our Newsletter is there, Bylaws of the Section, events and links to other sites, and many

other features (even photos of your officers).

In addition to the above, Sid Graham (CMU) as Past Chair, Margret Höft (UM–Dearborn) as Secretary/Treasurer, and Jim Ham (Delta C) as Two-year College Vice Chair have a wealth of experience and make my job easier.

There are many more people who donate their time to the Section in many ways. We always need volunteers. If you are interested in any of the positions mentioned above, or you want to be involved in another way, feel free to contact me. Also, the Distinguished Service and Distinguished Teaching Award Committees are looking for your input (see page 32).

The annual Upper Peninsula meeting was scheduled to take place on November 16–17. The conference co-sponsored by our Section with MDE and MCTM on October 31 is described on page 31. I am happy to report that we now have annual meeting sites through 2006. The 2002 annual meeting will be at Lawrence Technological University. There was a big Michigan contingent at the MathFest in Madison, Wisconsin, last August. In spite of the heat it was a pretty cool meeting. Hope to see

Annual Meeting in May

The next joint annual meeting of the Michigan Section–MAA and Mich-MATYC will be held May 10–11, 2002 at Lawrence Technological University, Southfield, Michigan. We are planning an exciting program with a variety of talks and workshops in mathematics, the teaching of mathematics, applications of mathematics, and other issues of professional interest. Speakers include Bernard Madison, Visiting Mathematician at MAA in Washington. Janet Andersen (Hope C), chair of the Committee on the Teaching of Undergraduate Mathematics, is organizing an Assessment Forum. Tentative acceptances from other speakers have been received. Additional speakers will be invited. More details will appear in the Spring Newsletter.

In addition to our invited speakers, we will have sessions for contributed papers, as well as a special session for papers by undergraduates. Instructions for submitting abstracts for these sessions are contained in the Call for Papers, which appears on page 33 of this Newsletter. Speaking at a contributed paper session is an excellent way to share your work

and to become acquainted with your state colleagues. The meeting is scheduled to run all day Friday and Saturday morning with a likely additional Saturday afternoon session. There will be luncheons both Friday and Saturday and a Friday evening banquet. In keeping with our usual practices, the annual teaching and service awards will be presented at the Friday evening banquet.

The program committee consists of chair John Mooningham (SVSU) along with Jim Ham (Delta C), Bill Arlinghaus (LTU), and Kristen Moore (UM–Ann Arbor). Please notify one of us if you would like to give a presentation or if you have a suggestion for the program. Michael Merscher chairs the local arrangements committee; other members are Ruth Favro, Pamela Lowry, and Thomas Lackey (all are from LTU). Contact information for all of us is given on page 34.

High School Visiting Lecture Program

Steve Schlicker and Paul Fishback (GVSU) are again jointly directing the High School Visiting Lecture Program during the 2001–2002 academic year. The HSVLP offers high school students and teachers the opportunity to connect with college and university faculty and other mathematics professionals. Topics that mathematicians share with schools include applications of mathematics in bridge-building and Congressional apportionment, careers in mathematics, beautiful mathematical gems in mainstream mathematics, and topics in other areas such as graph theory, chaos theory, and the theory of surreal numbers.

Last year there were 22 volunteer speakers from 12 institutions, offering 47 titles. There were 11 requests for visits, all of which were honored. This number is down from 1999–2000. One lecture in particular deserves special recognition — a request from Beaver Island High School. In addition to the driving time, the trip to Beaver Island requires a ferry or plane trip between Charlevoix and the island. The time and logistics of the trip necessitate an overnight stay. We appreciate the willingness of Ed Aboufadel (GVSU) to make this trip.

All faculty who are interested in giving high school presentations are encouraged to participate. The continually updated list of speakers is available on the Section Web site (`www.michmaa.org/vhslpAnnounce.html`).

Please encourage any high school teachers you may know to take advantage of the program. There is no charge to them for this service. Teachers can apply for speakers directly from the Web site. For further information, see our Web site or contact Steve or Paul (see contact in-

formation on page 34).

This is the third year in a three-year term for GVSU to direct the HSVLP. If anyone is interested in assuming the position of HSVLP director, contact

Governor's Report

Let me start by thanking all of you for electing me to be the governor of the Michigan Section for 2001–2004. It's an honor I deeply appreciate and a responsibility I hope to carry out as well as did our previous governors, John Kiltinen (1998–2001), John Petro (1995–1998), and so on back to James Glover (1931–1933). I learned at my first Board of Governors meeting, at the MathFest in Madison, Wisconsin, this summer, that one of my duties is to be the bridge between the Section (and its members) and the national organization. Let me share some things I learned.

The MAA has about 30,000 members, whose dues and efforts support a wealth of activities, from the Putnam Exam to efforts to influence public policy; from publication of books and journals to a Web site with so much to offer that mathematicians and students can spend days reading about their favorite topics; from recognizing excellence through its many awards to mentoring new faculty through Project NExT. If you haven't visited the Web site recently (www.maa.org), have a look at Ivars Peterson's, Keith Devlin's, or Frank Morgan's columns, or on-line book reviews, or the new Journal of Online Mathematics. The MAA has a staff of 25 in Washington, DC, plus another 11 in Nebraska (connected with competitions), but a lot of the work of our organization is done by us, its members. In fact, the national MAA has about 139 committees.

Two corollaries of all of this are that more of us should join the MAA, and more of us should participate in its operation. If you are receiving this Newsletter but are not a member, please seriously consider joining. It's not cheap, but your dues bring you some excellent journals, give you reduced registration fees at the national meetings (such as the one coming up in January in San Diego), and give you the satisfaction of belonging to the profession and supporting it in a meaningful way. A membership application can be found on page 36. As governor, I am asked to nominate

members for service on committees, so please also seriously consider volunteering. You will interact with energetic colleagues from around the country and make a difference to the future of mathematics and education. For a list of committees, click on "About the MAA" from its Web site and follow the links. Please contact me with your preferences.

I get to write five more columns like this over the next three years and hope to share with you what is going on at the national level. But let's have two-way communication: I want to hear from you — to volunteer your service, to let me know what you would like to see the MAA emphasize, to complain about things that need to be fixed, or to let us know what is going well. Contact information is on page 34.

Perhaps as we try to cope with the instability in our lives that began on September 11, a recommitment to our roles as mathematicians and educators can keep things in focus. Becoming active in the MAA is one way to do that.

Jerrold W. Grossman, Governor

Secretary/Treasurer's Report

Once again, I am happy to report that the Section is in good financial shape. On September 15, 2001 the bank balance was $5,242.33, of which $2,293 belong to Project NExT. One year ago the balance was $5039.97, of which $2,455 belonged to Project NExT. The Section's tax forms were filed with the IRS before the August 15 deadline.

The annual request for Section dues was sent out to each member of the MAA in Michigan in early October. The time to send in your dues, if you have not already done so, is NOW. The dues structure is the same as last year, a real bargain: $15 for a regular individual membership, $30 for a contributing membership, and either $40 or $70 for an institutional membership, depending on the size of the institution. You will find a form below. Please encourage your colleagues, especially new department faculty, to support the activities of the Section by paying Section dues.

One of the major expenses, which benefits the entire mathematical community in Michigan, is the printing and mailing of the Section's News-

letter. It is mailed to all faculty in mathematical sciences departments in Michigan colleges and universities, in addition to MAA members. Another major expense is the annual Section meeting in the spring, to be held next at Lawrence Technological University, May 10–11, 2002. The Section also provides financial support for the very successful Michigan Undergraduate Mathematics Conference (see page 12). Your dues directly support these activities.

Student Chapter News

Hillsdale College

The 2001–2002 KME student officers are Jeremiah James (President), Matt O'Toole (Vice President), Chad Helmick (Secretary), and Michelle Dolgos (Treasurer). Activities include a twice weekly mathematics tutoring service.

Siena Heights University

The officers of the Kappa chapter of Pi Mu Epsilon are President Nick Kingsley, Vice President Kristen Wickenheiser, Secretary Liza Iocopelli, Treasurer Nick Kaplan, and Sergeant-at-arms Kelly Ostrander.

Section Dues: Individual • Institutional

The 2001–2002 individual and institutional membership dues for the Michigan Section are now being accepted. The $15 individual dues payment (or $30 contributing member payment) and the $40 (small school) or $70 (large school) institutional dues help support the activities of the Section such as its annual meeting and Newsletter. This coupon may be used to submit dues payments.

Enclosed is a check for:
- Regular Dues @ $15 ❑
- Contributing Membership @ $30 ❑

- Small Institutional Dues @ $40 ❑
- Large Institutional Dues @ $70 ❑

Name: _____

Institution: _____

Mailing Address _____

_____

E-mail Address _____

My coordinates in the universe? ... The origin of course.

From the Origin: A Section for Opinion

From the Origin provides a forum for lively discussion of issues of importance to the mathematical community. The Michigan Section–MAA Newsletter solicits opinion pieces for publication in this column from anyone in the Michigan mathematical community. In addition, comments on pieces published in earlier issues are welcomed.

Items for From the Origin should be submitted to the editor by the beginning of October to be considered for inclusion in the December issue and by the beginning of February for the April issue. Main opinion pieces should be at most 1800 words long, and responses at most 400. The editors reserve the right to shorten responses, if necessary, in order to fit as many as possible within the available space.

Unity in Multiplicity: Lessons from the Alhambra

by Randy Schwartz (Schoolcraft College)

A copy of the magazine Talking About Race landed on my doorstep in July 2000, three days after I returned from a mathematics conference in Granada, Spain. It was a special issue of The New York Times Magazine, capping that newspaper's yearlong probe of race relations in America. "All across the country," reported journalist Rubén Martínez in one column, "people of different races, ethnicities, and nationalities are being thrown together — and torn apart — by the churning forces of first the postindustrial and now the information economy. . . . It is a terrifying experience, this coming together, one for which we have as yet only the most awkward vocabulary."

The mixing of different peoples and cultures can be terrifying, but there is another way to look at the issue. Recently, southern Spain has been torn apart by a wave of violent attacks against Moroccan immigrants in El Ejido and other towns. In the face of this, Alhambra 2000, the first European-Arabic Congress of Mathematics, brought 300 educators from Arab and European nations to Granada in July. In digging up the hidden history of fruitful interaction between the mathematics of these two cultures, but also in the living example it provided by unifying scholars from traditions and homelands that have sometimes been mutually hostile, Alhambra 2000 suggested that the most successful undertakings are those that tap into the cultural, linguistic, and ethnic diversity of the planet. I believe this lesson has important implications for higher education.

Alhambra 2000 was a satellite of the third quadrennial European Congress of Mathematics, a larger gathering in Barcelona organized by the Catalan Mathematical Society (SCM). These were the first

important international math conferences held in Spain since the end of the Francisco Franco dictatorship (1939–75). Under Franco, the nation's intellectual and academic life had been cut off from the rest of the world. SCM President Sebastià Xambó commented that in the intervening quarter-century, mathematical research in Spain has risen from next to nothing to world levels. In 1998 the Spanish Royal Mathematical Society finally joined 39 other organizations already grouped in the European Mathematical Society.

The core of Alhambra 2000 consisted of plenaries on the historical contributions of European and Arab cultures to current knowledge of mathematics. To promote greater interaction between historians and modern specialists, symposia were also devoted to current mathematical research in fields like computational mathematics, the geometry of submanifolds, orthogonal polynomials, and the representation theory of algebras. Most attendees came from countries of Europe and northern Africa and were native speakers of Spanish, French, or Arabic. Presenters were comfortable speaking English (official language of the conference) or, in a few cases, spoke in another language while projecting slides in English. I noticed that Hispanic colleagues using PowerPoint had a Windows operating system with a Spanish user interface — an important tool in a world in which computer use is rising rapidly among Spanish speakers.

Islamic Geometry and the Ideology of Inclusiveness

The opportunity to forge understanding from many languages and cultures has special resonance in Granada. Cultural mixing was a key reason why Spain rose to become the leading civilization in Europe in the Middle Ages. In stark contrast to the sieges, expulsions, and inquisitions that would later "ethnically cleanse" the peninsula, the Moors presided over a society in which Arabs, Berbers, Jews, and Christians coexisted. The resulting intellectual ferment greatly stimulated science and philosophy, as seen in commentaries like those of Ibn Rushd (Averroës) and Ibn Bajja (Avempace), both Muslim, and Ibn Ezra (Aven Ezra) and Ibn Maymun (Maimonides), both Jewish. The intermixture of ideas and techniques also shaped Iberian literature, agriculture, and art: Silk, for example, made by Arab craftsmen using Asian methods, became Granada's leading export.

On a tour of the Alhambra, Granada's palace complex, we were able to study the ingenious ways in which Moorish designers had tiled the palace walls. The abstract and intricate mosaics utilize symmetries of many kinds — rotations, reflections, translations, glides, and combina-

My coordinates in the universe? ... The origin of course.

tions of these. Conference speaker Rafael Pérez Gómez, following up on the work of Coxeter and Grünbaum, has shown that the Alhambra contains examples of all 17 types of symmetric tessellation of the plane. At no other cultural site in the world are more than a handful of these crystallographic isometries to be found.

Medieval Islamic artists and the geometers who advised them did not work out a whole theory of tessellations. They took up abstract ornamentation because of their reluctance to depict humans or animals, depictions they felt usurped the creative activity of Allah. Religious and intellectual impulses then pushed them to make an exhaustive search for patterns. Ensembles of repeated or interlocking figures were also a good way to broadcast the Islamic doctrine of al-tawhid, variously translated as "unification" or "unity in multiplicity". According to this doctrine, all phenomena of nature and society are stamped by a single spirit that permeates everything. The boundless multiplicity of the universe is an expression of a more underlying unity, and each thing is a potential key to understanding the whole. In Moorish Spain, such beliefs encouraged the embrace of all knowledge and all people.

Belts of Interchange

"Unity in multiplicity" seems equally relevant to our own multicultural society. To the extent that we try to blot out any people or culture, various groups will be arrayed against one other and society will be weakened as a result. In light of this, it needs to be pointed out that Western scholars have too often been dismissive of the accomplishments of Arab and other non-European scientists: "The Arabs made no significant advance in mathematics. What they did was absorb Greek and Hindu mathematics, preserve it, and . . . transmit it to Europe." (Morris Kline, Mathematical Thought from Ancient to Modern Times) "The general impression left is that the Arabs were quick to appreciate the work of others — notably of the Greek masters and of the Hindoo mathematicians — but, like the ancient Chinese and Egyptians, they did not systematically develop a subject to any considerable extent. Their schools may be taken to have lasted in all for about 650 years, and if the work produced be compared with that of Greek or modern European writers it is, as a whole, second-rate both in quantity and quality." (W. W. Rouse Ball, A Short Account of the History of Mathematics)

As the Alhambra 2000 conference documented, these Eurocentric views are no longer tenable. Much of arithmetic, algebra, trigo-

nometry, combinatorics, and the analysis of functions were developed by scholars in the medieval Arab world. A presentation by Christian Houzel showed that these scholars had developed a key concept of calculus — the derivative of a polynomial function — over 400 years before Fermat, Newton, and Leibniz. Far from simply preserving and transmitting ancient Greek and Indian learning, the Arabs had richly extended these and even pushed mathematics in some wholly new directions.

Of course, mathematics and science do not magically leap cultural and political boundaries by themselves. Historically, East/West contact bore the most fruit wherever Arabs and Europeans lived or worked together. Arabic numerals, for example, and the simplified arithmetic they made possible, were first encountered by Gerbert d'Aurillac at Arab-influenced monasteries in Spain and Italy, and by Fibonacci of Pisa at his father's trading post in Algeria. Today, a satellite-based information superhighway speeds the cross-border flow of data, but the biggest breakthroughs still hinge on humans working together "on the ground". Conference speaker Michel Balinski, for example, a math professor in Paris, collaborated with the Turkish Ministry of Education to invent a graph-theoretic algorithm for accomplishing more fairly and efficiently what the Turkish government had long carried out by hand: the assignment of students to universities based on their exam scores and areas of specialization.

Cultural Mixing in the Classroom

"College students who experience the most racial and ethnic diversity in classrooms and during interactions on campus become better learners and more effective citizens," General Motors vice chairman Harry J. Pearce pointed out recently, explaining the company's decision to file an amicus brief in defense of affirmative action policies at the University of Michigan. On one level, GM management is simply acknowledging demographic reality. By 2015, the College Board projects, the proportion of nonwhite students at U. S. college campuses will increase to about 38 percent, accounting for some 80 percent of growth in the student population.

The removal of artificial barriers is relevant not only to admissions policies but also to course content itself, wherever various cultures and disciplines have been excessively walled off from one another. At Alhambra 2000 we were inspired by the presentation of Nathalie Aime, who initiated at her school in Réunion a curriculum that is team-taught by teachers in mathematics, physics, French, Spanish, and art. With

My coordinates in the universe? ... The origin, of course.

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symmetry as unifying thread, they study crystallography, mosaics and friezes, musical canons, novels, and architecture. The approach is broad: One week they might learn HTML and computer graphics to create artwork and Web pages, while another week they might visit a local sugar factory to study the crystallization process.

In the United States, a multidisciplinary approach also guides Mathematics Across the Curriculum (MATC) at Dartmouth College. The NSF-funded project has brought together nearly 200 faculty members at Dartmouth and collaborating institutions, from such disciplines as mathematics, literature, history, philosophy, art, biology, geology, and engineering. MATC has produced over 75 modules, books, and videos, including some on the use of pattern and symmetry in African, Islamic, and European cultures. Also of note is a new book from the MAA edited by Victor Katz, Using History to Teach Mathematics: An International Perspective, based on papers presented at international conferences in Seville, Spain, and Braga, Portugal, in 1996.

When our coursework delves into the global diversity of human culture, we open up a range of opportunities for "breaking down walls". We help link what is learned in a particular discipline to broader questions of science and culture, showing that all knowledge is interwoven, and that wielding this knowledge has practical consequences on an international scale. We also foster a sense of mutual respect and understanding when students learn of the contributions made by every people on the planet — an understanding that is sorely needed now in our fractured and fractious world.

In the quotation cited at the beginning of this essay, Rubén Martínez expresses fear of the gut-wrenching experiences of diverse people being thrown together by the forces of the new economy. Racial strife in places like southern Spain, not to mention Michigan, is real enough. But discussion that focuses one-sidedly on the "terrifying" aspects of cultural mixing does not move things forward. Granada teaches a powerful lesson: The last Moorish stronghold in Europe, it finally fell to the armies of Ferdinand and Isabella in 1492, the same year they dispatched Columbus westward in search of gold and spices. The Islamic library was torched, non-Christians were hounded from the city, and the silk industry collapsed. The beginning of Spain's Age of Gold was in fact the beginning of its long, deep decline. Alhambra 2000 helped make clear to me that if there is something "terrifying" about race, it is that the failure to see

Fourth Undergraduate Conference Planned

The fourth annual Michigan Undergraduate Mathematics Conference (MUMC) will take place Saturday, February 16, 2002 on the campus of Calvin College in Grand Rapids. Frank Morgan (Williams C) will give the keynote address, and the conference will feature talks by undergraduates on a wide range of mathematical topics.

Details about the program for the conference as well as on-line registration for speakers and non-speaking participants will be made available on the conference Web page (`www.calvin.edu/academic/math/mumc2002`). Conference information will also be mailed to MAA student chapter advisers and department liaisons by the beginning of December. Other individuals who wish to be added to the mailing list are encouraged to contact Student Activities Coordinator Randall Pruim (Calvin C). Faculty members are asked to begin now to encourage their students to participate in the conference and to help them with selection of a topic and preparation of a presentation. Talks at any undergraduate level and in any area of mathematics or a related discipline are welcome. This includes both talks describing student research and expository talks based on class projects or other interests students have.

The three previous Michigan Undergraduate Conferences have been hosted by faculty and students at Grand Valley State University, Alma College, and Siena Heights University. Each of these conferences has placed a large measure of the responsibility for planning and funding the conference on the host institution and its local resources, although faculty from these three institutions collaborated on each conference. While those efforts have gotten the conference off to a good start, it was felt that to ensure the continued success of the conference a broader base of support and leadership was needed. For this reason this year, in addition to a local arrangements committee, a conference steering committee has been formed. Current members include John Clifford (UM–Dearborn), John Fink (Kalamazoo C), Sivaram Narayan (CMU), Randall Pruim (chair), Jody Sorensen (GVSU), and Darin Stephenson (Hope C). This committee seeks to promote the conference throughout the Section and to plan for its continued success. While the conference remains dependent upon the leadership and funding of the host institutions, it is hoped that over time this dependence will be diminished as Section-wide support increases. The steering committee welcomes suggestions for improving the conference from any Michigan Section member.

Initial planning is already under way for MUMC 2003, with the location tentatively set for University of Michigan–Dearborn. Other institutions interested in hosting a future conference are encouraged to contact a member of the steering committee. Even if faculty and students within

your department cannot make such a commitment at the present time, any financial contribution that your department can make toward this year's conference is very much appreciated.

Bylaws Revision Needs Membership Approval

The bylaws of the Michigan Section of the MAA lay out the way we do business. The last revision occurred in 1985, but it has some errors, and the document currently on file with the national MAA is, inexplicably, an older version. Thus it makes sense to clean up the bylaws and incorporate a few minor improvements.

There are no significant changes from the 1985 bylaws; the new or altered language is either cosmetic or included to conform to current practice. For example, the Webmaster serves as an ex-officio nonvoting member of the Executive Committee.

The Executive Committee has approved the new version, and it appears on the Section Web site with changes highlighted. Anyone with other changes to suggest should send them to Section Governor Jerry Grossman (see contact information on page 34). The membership will vote on the new bylaws at the annual meeting on May 10.

**Doctoral Studies at
Central Michigan University**

PhD with Concentration in
the Teaching of College Mathematics

This PhD is a content-based degree designed to prepare individuals for a career in college teaching. The program consists of broadly distributed coursework, professional pedagogical component, teaching internship, and dissertation. Areas of research strength include approximation theory and optimization, combinatorics, fluid dynamics, functional analysis and operator theory, history of mathematics, statistics, and mathematics education.

Three GAANS fellowships are available for next year. These fellowships offer a $18,000 yearly stipend and a reduced teaching assignment.

For information contact: Sidney W. Graham, Chair, Department of Mathematics, Central Michigan University, Mt. Pleasant, MI 48859; phone 989-774-3596, fax 989-774-2414, `Math@cmich.edu`, `www.cst.cmich.edu/units/mth`.

CMU, an AA/EO institution, is strongly and actively committed to increasing diversity within its community (`www.cmich.edu/aaeo`).

CITATION for
DOUGLAS W. NANCE
for the

MICHIGAN SECTION OF THE
MATHEMATICAL ASSOCIATION OF AMERICA

DISTINGUISHED SERVICE AWARD

The Michigan Section of the Mathematical Association of America is pleased to recognize Douglas W. Nance, Professor Emeritus of Mathematics, Central Michigan University, as the 2001 recipient of its Distinguished Service Award. We gratefully acknowledge the many contributions he has made both to our Section and to the larger mathematical community over a span of more than 30 years.

Prior to his retirement in 1999, Professor Nance served the Section in several capacities. Between 1982 and 1988 he served on the Executive Committee as Secretary/Treasurer, Vice Chairperson, Chairperson, and Past Chair. This was an especially productive era for the Section. The Section awarded its first Distinguished Service Award in 1987 during his chairmanship. Doug also chaired several committees for the Section, including the Finance Study Committee, the Distinguished Service Award Committee, and the Distinguished Teaching Award Committee. At the national level, he served for three years as a member of the MAA Committee on Sections.

Widely recognized for his excellence in teaching, Doug has received a number of awards including the 1990 Excellence in Teaching Award from Central Michigan University and, in 1993, this Section's Award for Distinguished College or University Teaching of Mathematics. He is the author of highly regarded textbooks in mathematics and computer science at both the college and the high school level.

Professor Nance has also been actively involved with other organizations concerned with the teaching of mathematics, including the Michigan Council of Teachers of Mathematics and the Michigan Department of Education, serving on its High School Education Task Force and the Coalition of Michigan Subject Matter Education Organizations.

For his many years of dedicated service and outstanding leadership, the Michigan Section is proud to present the

2001 DISTINGUISHED SERVICE AWARD

to

PROFESSOR DOUGLAS W. NANCE

Members Honored with Highest Awards

Professor John Fink (Kalamazoo C) and Professor Douglas Nance (CMU, retired) were presented with the Michigan Section's Awards for Distinguished College or University Teaching of Mathematics and for Distinguished Service, respectively, at the banquet during the 2001 annual meeting last April in Holland.

John was cited for, among other things, his work on calculus reform and enrichment programs for bright junior high school students in the Kalamazoo area. The citation presented to him at the meeting is shown on page 17.

Doug served in many roles in the Section and the national MAA over the years. Coincidentally, it was during his chairmanship of the Section that the first distinguished service award was given. The citation presented to him at the meeting is shown on page 14.

Pictures of both recipients are included in the annual meeting photospread on pages 18–19. See page 32 for details on the solicitation of nominations for the distinguished teaching award and the distinguished

Award for
Distinguished College or University
Teaching of Mathematics
presented to
John Fink

The Michigan Section of the Mathematical Association of America is pleased to announce that Professor John Fink of Kalamazoo College has been selected as the 2000–2001 recipient of the Award for Distinguished College or University Teaching of Mathematics.

Professor Fink has been a teacher of mathematics for 25 years, and he has always been intensely involved in the experience. His excellence as a classroom teacher has been recognized previously by Kalamazoo College's Francis Diebold Award for outstanding interest and participation in student events (1999).

Professor Fink has been for many years involved in the "calculus connection", which strengthens ties between the college and local high schools. He has tutored very bright junior high school students in the area. He developed materials for that program based on synthetic geometry. His teaching emphasizes problem solving, critical thinking skills, communication, and mathematical connections. Professor Fink has also trained teams to compete in the annual American Regions Math League competition.

Professor Fink was the key member of the writing team for the "Learning by Discovery" series for calculus reform. Eric Nordmoe, one of Professor Fink's colleagues at Kalamazoo College, said, "It is indeed an honor to work every day with one who has done so much to enhance mathematics education, both locally and beyond, among students of all ages."

Comments from colleagues and students include the following: "Very enthusiastic about the material." "Very good lectures." "Did a great job getting the material across to us." "Allowed free exchange of ideas." "A very homey class."

The Michigan Section of the Mathematical Association of America is proud to be represented by dedicated teachers such as Professor John Fink.

Annual Meeting at Hope College, April 27–28, 2001

Distinguished
Teaching Award
winner John Fink

Elliot Tanis explains use of
Maple for visualization, manipu-
lation, and simulation

Student Michael Kowalczyk
links addictive puzzles and
abstract algebra

Joan Ferrini-Mundy discusses
implication of NCTM Principles
and Standards

VanderWerf Hall at
Hope College provides
the setting for the
meeting

Edward Burger shares
views on teaching

John Berry develops the
mathematical feel

Chris Skinner lectures on
Fermat's legacy

Bette Warren calls the
Presidential election

Distinguished Service Award win-
ner Doug Nance

News from the Campuses

Albion College [reported by Robert Messer]

Darren Mason (on leave from Department of Mechanical Engineering at MSU) is a Visiting Assistant Professor. • Mark Bollman completed his dissertation this past summer and has received a PhD degree from CMU.

Andrews University [reported by Donald Rhoads]

Associate Professor Kenneth Franz retired October 1, 2001 after long service teaching remedial and general education courses. • Yun Myung Oh (PhD from MSU in Riemannian geometry) was appointed Assistant Professor (part time). Shandelle Henson (previously at C of William and Mary, PhD from U of Tennessee in dynamical systems and bifurcation theory) was appointed Associate Professor.

Calvin College [reported by Daryl Brink]

Rachelle Ankney (PhD in combinatorics from George Washington U) has joined the faculty. James Bradley has returned to Calvin from Washington, DC after spending the last year and a half at the State Department in the William C. Foster Visiting Scholar Program.

Central Michigan University [reported by Ahmed Assaf]

Doug Lapp and Jungsywan Sepanski have been promoted to Associate Professor. • New faculty include Azita Manouchehri (math education), Nate Brown (analysis, on leave at MSU), and visitors Dave Renfro (analysis), Jintae Kim (applied math), and Boris Bekker (combinatorics). • Leela Rakesh is on sabbatical leave this fall at Dow Chemical.

Ferris State University [reported by James Howard]

Ed Straley retired at the end of last winter semester. Vaclav Konecny and Betty Arnold will be retiring at the end of this semester. • Shaw Walker, Bohodir Siddikov, Sandra Brigance, and Hengli Jiao have joined the faculty this fall in tenure-track positions. • Lakshmi Mukundan was promoted to Full Professor.

Grand Valley State University [reported by Paul Fishback]

The Department of Mathematics and Statistics has now split into two departments. Steve Schlicker is the new chair of the Department of Mathematics. Ed Aboufadel and Carl Arendsen are the new assistant chairs. • New faculty members this fall include Associate Professor Nancy Mack (PhD from U of Wisconsin), Assistant Professor Rebecca Walker (PhD from WMU), and Visiting Assistant Professor Tao Wu (PhD from Northwestern U). • After three years of helping plan the Michigan Undergraduate Mathematics Conference, the GVSU Mathematics Club has passed on its leadership role to Calvin C. Calvin will host the conference this year, and Randy Pruim (rpruim@calvin.edu) will serve as conference coordinator. • At MathFest in Madison this past summer, Jody Sorensen was awarded the MAA's George Polya Prize for expository writing in recognition of the article "Will the Real Bifurcation Diagram Please Stand Up!", which she and Chip Ross wrote for the January 2000 issue of The College Mathematics Journal. • Paul Fishback and Steve Schlicker currently serve as co-directors for the Section's High School

MICHIGAN STATE UNIVERSITY
Department of Mathematics

The Department offers coursework leading to the degrees of

>Master of Science
>Master of Science in Applied Mathematics
>Master of Science in Industrial Mathematics
>Master of Arts for Teachers
>Doctor of Philosophy

Doctoral candidates may pursue study and research in the areas of

>algebra
>analysis
>applied mathematics
>combinatorics and graph theory
>dynamical systems
>geometry
>logic
>mathematics education
>topology

Assistantships are available. The Department usually awards at least 110 graduate teaching assistantships to new and returning graduate students on the basis of merit. Duties include classroom instruction, paper grading, and help room duties, and normally require no more than 20 hours per week. An assistantship provides a stipend of approximately $1300 per month and includes health insurance and a 9-credit tuition waiver each semester.

Detailed information is available on our Web pages:

`http://www.math.msu.edu`

For further information and application materials, contact

>Director of Graduate Studies
>Department of Mathematics
>Michigan State University
>East Lansing, MI 48824-1047
>Telephone: 517-353-4650

Visiting Lecture Program (HSVLP). Since they will step down from this position at the end of this year, the Section seeks a new HSVLP director.

Hillsdale College [reported by Mark Watson]

Bob Hesse has accepted a position at Saint John's U (Minnesota). John Boardman was granted tenure and promoted to Associate Professor. Nancy Watson has accepted a one-year position in the department.

Hope College [reported by Todd Swanson]

John Vanlwaarden has retired after 40 years at Hope. • Assistant Professors Aaron Cinzori (PhD in applied mathematics from MSU, previously at Allegheny C in Meadville, PA) and Jillian McLeod (PhD in topological algebra from Howard U and previously a Visiting Professor at Hope) are now part of the faculty. • The mathematics department hosted a "Week of Math" October 15–20. Some of the department activities during this week included a career dinner, a student problem-solving session, dinner and a movie the mathematics way, and a problem-solving contest for high school students.

Lake Superior State University [reported by Brian Snyder]

Brian Snyder was selected as a Project NExT National Fellow for the 2001–2002 academic year.

Lawrence Technological University [reported by M. Merscher]

We are sorry to report the death of Zaven Margosian, chair of the department for many years and former Dean of the College of Arts and Sciences. • Robofest 2001, headed by Chan-Jin Chung, was held at LTU in the spring. • Join your colleagues at the Michigan Section annual meeting at LTU on May 10–11, 2002.

Northern Michigan University [reported by Roxin Zhang]

Three new faculty have joined the department: Assistant Professor Stephen Smith (doctorate in mathematics education from MSU, more recently at CMU) and temporary instructors Roger Contois (MA in mathematics education from NMU) and Ken Culp. • We are considering a policy that would require all students to attain a minimal level of mathematics proficiency before graduating. Acceptable entry criteria such as freshman placement test results, high school courses and grade point averages, and mathematics scores on the ACT or SAT are being considered. Students who do not meet the criterion will have to pass designated college courses. In anticipation of an increased demand for beginning level mathematics courses, the university is considering the use of online classes and will be looking closely at McGraw-Hill's ALEKS this month. If your college or university is using or has used this product or ones like it, we would appreciate hearing from you; please contact interim department head Donald Zalewski (dzalewsk@nmu.edu). • On March 31, 2001 NMU hosted a collegiate programming contest in Marquette, with 21 teams representing five schools (Algoma U C, LSSU, MTU, NMU, and UM–Flint) participating. NMU's Team Denny, consisting of students Mike Kowalczyk, Matt Murphy, and Denny VandenBerg, won the competition, and NMU also took first place in the school rankings.

WESTERN MICHIGAN UNIVERSITY

Department of Mathematics

The Department of Mathematics, College of Arts and Sciences, Western Michigan University, consists of 27 full-time faculty members with specialties in many areas of mathematics and mathematics education. About 45 graduate students are supported by assistantships and doctoral associateships. The University is located in southwestern Michigan, midway between Chicago and Detroit, and less than an hour's drive from Lake Michigan.

Degree Programs The Department offers Ph.D.'s in Mathematics, Mathematics Education, and Collegiate Mathematics Education; and Master's degrees in Mathematics, Applied Mathematics, Computational Mathematics, and Mathematics Education. Our graduate students receive individualized attention and encouragement from professors who are committed to maintaining the highest standards in both research and teaching.

Financial Assistance A variety of assistance is available. Stipend levels for 2001–2002 were $11,000 to $15,000. We anticipate a similar level of support for 2002–2003. All teaching assistants receive tuition waivers. Additional support may be available for either the Spring or the Summer session. Applications submitted by February 15, 2002, will receive full consideration. Even after this date, feel free to apply, as assistantships are often available until July. All application materials are available on-line. Late applications are accepted as long as openings remain. For additional information, please contact:

> Graduate Committee
> Department of Mathematics
> Western Michigan University
> 1903 W Michigan Avenue
> Kalamazoo, MI 49008-5248

> Phone   616-387-4512
> Fax   616-387-4530
> E-mail   grad@math-stat.wmich.edu
> Web site   http://www.wmich.edu/math-stat

Western Michigan University is an Equal Opportunity/Affirmative Action Institu-

Oakland University [reported by Jerry Grossman]

Eddie Cheng and Alan Park have been promoted to Associate Professor with tenure. • Alan Park is on sabbatical leave for the year; Jerry Grossman and Jack Tsui will be on sabbatical this winter. • The department hosted two conferences on October 13: the Great Lakes Section meeting of SIAM, and the Thirty-fourth MIGHTY (MIdwest GrapH TheorY conference). • Famed and controversial logician Gregory Chaitin (IBM) gave a campus-wide address in October about randomness in mathematics. • The Summer Mathematics Institute is expected to continue this summer, offering for the seventh year college-level courses for bright high school students. Details can be found at www.math.oakland.edu/ousmi.html.

Siena Heights University [reported by Toni Carroll]

Lana Taylor and Toni Carroll were appointed Teaching Learning Mentors as part of the Ameritech Faculty Development Technology Program and as Faculty Experts in Residence for the Support for the Advancement of Learning and Teaching. As such they are committed to develop their own expertise in technology-enhanced instruction and commit themselves to helping their colleagues develop these skills. • Madeline Muntersbjorn (U of Toledo) spoke on History of Calculus.

University of Detroit Mercy [reported by John O'Neill]

Ron Mosier, formerly of DaimlerChrysler, has joined our faculty full-time. Frank Saba has left us for UNLV. • John Dwyer has been elected to the Board of Computer Professionals for Social Responsibility. • Jeffe Boats spoke at the SIAM Conference at OU on October 13. • We held our annual Technology Discovery Day for high school students on October 19.

University of Michigan–Ann Arbor [reported by H. Montgomery]

We are sad to report the death of Professor Emeritus Jack McLaughlin. He was an especially esteemed teacher in all areas of mathematics, whose sets of difficult exercises have been widely distributed. His research spanned many areas of algebra. • New faculty are as follows: Associate Professor Kannan Soundararajan (number theory), and Assistant Professors Michael Bolt (several complex variables), Paul Hacking (algebraic geometry), Patricia Hersh (combinatorics), Paul Horja (mirror symmetry), Ben Joseph (combinatorics), Russell Mann (number theory), Michael Roitman (vertex algebras), David Schneider (mechanics), and Divakar Viswanath (ordinary differential equations). • The department is grateful to Al Taylor for serving as chair for the past six years. The acting chair this year is Alejandro Uribe; next year, Trevor Wooley will start as chair. • Chris Skinner has been awarded a Packard Grant. • An AMS sectional meeting will be held in Ann Arbor on March 1–3. • The Fred & Lois Gehring special year in complex analysis will occur in 2001–2002 (see www.math.lsa.umich.edu/~kverma/scv2001-2).

University of Michigan–Dearborn [reported by Frank Papp]

There are two new faculty: Assistant Professor Amal Amleh (PhD in applied mathematical sciences from U of RI, recipient of numerous awards, including a Fulbright scholarship) and Associate Professor Rheta Rubenstein (doctorate

in curriculum development from WSU, certified 7–12 mathematics teacher and author of numerous books). • Michael Lachance is on sabbatical leave this academic year.

University of Michigan–Flint [reported by Steve Althoen]

Shu-Yi Tu (PhD from UC Santa Barbara in partial differential equations) has been hired as Assistant Professor. • Ken Schilling is serving as interim chair, while the new chair elect, Mehrdad Simkani, is on sabbatical this fall. • The 35th annual Math Field Day, a competition for high school students from throughout Michigan, will be held on February 26. Thirty-three teams participated in 2001; the team from Troy High School won the championship. For more information, visit the event's Web site (`www.flint.umich.edu/Departments/math/Field_Day`).

Washtenaw Community College [reported by James Egan]

Diane Turelli and Kristin Chatas have joined the full-time faculty. Hanan Wahab has been appointed to a temporary full-time position. Martha Showalter is now Dean of Math, Natural and Behavioral Sciences.

Wayne State University [reported by Daniel Frohardt]

Visiting faculty this year include Nguyen Hung (National U of Vietnam, algebraic topology), Zbigniew Jurek (U of Wroclaw, probabilistic limit theory), and Byungchul Song (Kangnung National U, combinatorics). • John Klein and Zhimin Zhang have been awarded tenure. George Yin has received the Board of Governors' Distinguished Faculty Fellowship and a College of Science Teaching Award. Guozhen Lu has been awarded a Career Development Chair. • Robert Berman is on a second one-year leave of absence to work on a special assignment from the provost's office. Daoqi Yang is on leave for the academic year. Leon Brown is on medical leave this semester. John Klein and José-Luis Menaldi are on sabbatical leave this semester. Kay Magaard, Boris Mordukhovich, and George Yin will be on sabbatical leave next semester. • The home page for this year's colloquium series is `www.math.wayne.edu/~sarah/colloq/colloq.html`.

Western Michigan University [reported by Dennis Pence]

Effective July 1, 2001 the former Department of Mathematics and Statistics was split into two separate departments, the Department of Mathematics and the Department of Statistics. The two new departments are both still housed in Everett Tower, and they continue to cooperate on many activities, including the use of graduate teaching assistants. • Michael Kinyon, who comes from Indiana U–South Bend and works in differential equations, has joined the faculty. • David Ross (Rochester Institute of Technology) gave a colloquium talk and Pi Mu Epsilon banquet talk in October.

VISIT THE MICHIGAN SECTION'S WEB SITE

`http://www.michmaa.org`

Positions Available

NOTE: Most positions in the mathematical sciences, including many of the ones listed here, are advertised in Employment Information in the Mathematical Sciences (`www.ams.org/eims`). The MAA also has a Web site for employment opportunities (`www.maa.org/pubs/employ.html`). All openings are for Fall 2002 unless otherwise stated, and further information is available from the department.

Albion College (`www.albion.edu/math/position.htm`) invites applications for a tenure-track position in applied mathematics and expects to have an additional tenure-track position in an area that will support its needs in geometry, statistics, or computer science. There is also an opening for a one-year sabbatical replacement with possible continuation for a second or third year.

Central Michigan University (`www.cst.cmich.edu/units/mth/fsearch.htm`) has five openings: one in math, one in math education, one in statistics, and two in any area of the mathematical sciences.

Ferris State University is looking for a PhD to fill a tenure-track position beginning in the winter semester; contact our department head George Wales (`walesg@ferris.edu`) for further details.

Grand Valley State University (`www.gvsu.edu/math/jobs.html`) has one tenure-track position in mathematics at the rank of assistant or associate professor, one tenure-track position in mathematics education at the rank of assistant or associate professor; and one postdoctoral teaching fellowship in mathematics or mathematics education.

Hillsdale College (`www.hillsdale.edu/jobs`) invites applications for a tenure-track assistant professor position in applied mathematics.

Hope College (`www.math.hope.edu/position.html`) will have two positions, one in statistics and the other open to all areas of mathematics.

Lake Superior State University (`math.lssu.edu`) has a tenure-track position starting August 2002.

Lawrence Technological University is looking for a director for its Masters in Computer Science degree, and also for a senior lecturer in developmental mathematics; contact David Bindschadler (`bindschadler@ltu.edu`).

Northern Michigan University (`math.nmu.edu`) invites nominations and applications for a position as head of the Department of Mathematics and Computer Science.

Oakland University (`www.math.oakland.edu/discreteposting.html`) has an assistant professor position in any area of discrete mathematics.

Wayne State University (`www.math.wayne.edu`) has one tenure-track opening for next year. It also expects to have one or more visiting positions available for the 2002–3 academic year.

Western Michigan University (`www.wmich.edu/math-stat/positions`) has two tenure-track openings each in mathematics and mathematics education.

New Newsletter Editor Needed

The Michigan Section needs a new editor for its semi-annual Newsletter. Jerry Grossman has been the editor for the past five years, and he has indicated that he will step down, now that he is serving as Governor of the Michigan Section. As well, it is time for new blood! The new editor should take over with the Spring 2002 issue, although Jerry will be glad to supply a lot of help and encouragement during the transition.

Editing the Newsletter is time-intensive during the weeks preceding its publication. Expenses are reimbursed by the Section, although some institutional cooperation is useful to coordinate the mailing. The job could be shared among two people if desired.

Interested persons should contact the current editor to learn more about operational details and options, and the Section chair to volun-

Contest News

Michigan participation in the American Mathematics Competitions remains strong. In November 2000, a total of 15,070 AMC 8 exams were ordered by 203 Michigan schools, placing Michigan first in the country for number of participating schools and second for student enrollment numbers. A total of 35 Michigan students received National Honor Roll recognition, and 811 received Michigan Honor Roll certificates. Rahul Ramesh, an 8th grader from Smith Middle School in Troy, was this year's state winner with a perfect score of 25.

At the high school level, 112 schools in Michigan gave the AMC 10 and AMC 12 in February, 2001. Anant Gupta scored a perfect 150 in the AMC 10. Ryan Timmons with a 142 had the highest score in Michigan in the AMC 12. Detroit Country Day School and Troy High School tied for the high team score.

Kristina Hansen (UM–Flint) continues this year as director of the AMC 8 in Michigan; David Laverell (Calvin C) directs the AMC 10 and AMC 12.

Three college students in Michigan were honored by the Section for their performance on the 2000 Putnam Examination: Rishi Raj (UM–Ann Arbor), Chetan T. Balwe (UM–Ann Arbor), and David Houston (OU).

In the American Regions Mathematics League (ARML) Competition, held in Iowa in June, the Michigan teams placed fifth in Division A and tied for 27th in Division B. The teams, selected from the MMPC Top 100 and coached again this year by Bob Messer (Albion C), John Fink (Kalamazoo C), and Ruth Favro (LTU), competed on problems such as proving the existence of a right triangle with sides of length a, b, and c having the same perimeter as a triangle with sides of length √a, √b, and √c.

Further information is available at www.albion.edu/math/arml.

Conference Held on Teacher Certification Programs

A one-day conference hosted by the Michigan Department of Education (MDE) and co-sponsored by the MCTM and the Michigan Section was held in Lansing on October 31. Over 60 faculty from colleges, community colleges, and high schools attended.

Presentations were given by Sue Wittick and Catherine Smith, both from the MDE Office of Professional Preparation Services. Catherine discussed the MDE's OPPS functions, and Sue gave an in-depth talk on the history and the implementation of the new Specialty Area Program Review for teacher preparation in mathematics. Chuck Allan, mathematics consultant to the MDE, discussed the standards and the new matrix for standards documentation. Sharon Senk (MSU) presented the recently published report from the CBMS on the Mathematical Education of Teachers (www.maa.org/cbms). Documents needed for the process can be found at www.state.mi.us/mde/off/ppc.

Many issues were raised in questions and dialogue. The conference ended with a suggestion that the participants might be able to stay in touch to do some group planning for the future. The planning committee was Ruth Favro, Roger Verhey, Frank Ciloski, Chuck Allan, Deb Zopf, and Mike Shelley. The Section thanks the MDE for providing a cooperative

Nominations Sought for Awards and Offices

Nominations for the eleventh (2002) Award for Distinguished College or University Teaching of Mathematics from the Michigan Section of the Mathematical Association of America are now being accepted. The Distinguished Teaching Award Committee will choose one of the nominees for the Section Award.

The awardee will be honored at the Spring meeting of the Section and will be widely recognized and acknowledged within the Section. The awardee will also be the official Section candidate for the national MAA Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics. Each of the three national awardees will be honored at the national MAA meeting in January 2003 and receive a $1000 check and certificate. The Section awardees for the past three years, Kalpana Godbole (formerly at MTU), Larry King (UM–Flint), and John Fink (Kalamazoo C), form the selection committee (see page 35).

Anyone (other than the candidate him/herself) is entitled to make a nomination, but nominations from chairs or MAA liaisons are especially encouraged. Any college or university teacher assigned at least half-time during the academic year to teaching a mathematical science in a public or private college or university (from two-year college teaching through teaching at the PhD level) is eligible, provided he or she has at least five years teaching experience in a mathematical science and is a member of the MAA.

The nominees should be widely recognized as extraordinarily successful in their teaching (interpreted in its broadest sense), have documented teaching effectiveness, have had influence in teaching beyond their own institutions, and foster curiosity and generate excitement about mathematics in their students.

Please send your nominations in triplicate to Kalpana Godbole, 610 Sharon Drive, Johnson City, TN 37604 (423-477-6795 (W) or 423-282-2086 (H), kalpana_godbole@associatescommerce.com). Deadline for completed dossiers is January 1, 2002. Further information and copies of the nomination forms can be found on the Section's Web site at www.michmaa.org/announcements.html.

Nominations are also now being solicited for the Michigan Section's Distinguished Service Award. Please submit your nominations by January 18 to Sidney Graham (CMU); see contact information on page 35.

In addition, as Past Chair, Sid also chairs the Nominating Committee for Section officers and would appreciate suggestions (by January 4) for future Section leaders (this includes self-volunteering). We need to elect a Chair and two Vice Chairs (two-year school and four-year school)

Call For Papers

The Michigan Section of the MAA and MichMATYC invite papers from students and faculty for the next combined Annual Meeting.

LAWRENCE TECHNOLOGICAL UNIVERSITY

SOUTHFIELD, MICHIGAN

May 10–11, 2002

Please send the title and an abstract (100 words or less) to:

Professor John Mooningham   E-mail: jwm@svsu.edu
Department of Mathematical Sciences
Saginaw Valley State University
University Center, MI 48710
Phone: 989-790-4183   Fax: 989-790-7638

E-mail submission is preferred. Papers should normally be at most 20 minutes in length. Please include your name, affiliation, home or office address, phone numbers, and e-mail address. There will be a separate session for undergraduate papers. You will receive a form asking you about the equipment you need for your presentation. If you have any questions, please contact John Mooningham.

The deadline for abstracts is Friday, January 25, 2002.

Undergraduate papers may be submitted until March 22, 2002. However, only those received by the January 25 deadline will be assured of inclusion in the advance program.

COMMITTEES AND APPOINTMENTS

Michigan Section
Mathematical Association of America

Contact Information

Executive Committee

Chair	Ruth G. Favro (02)	Lawrence Tech U	favro@ltu.edu	248-204-3531
Vice Chair	John Mooningham (02)	Saginaw Val. S U	jwm@svsu.edu	989-790-4183
Vice Chair	Jim Ham (02)	Delta College	jaham@alpha.delta.edu	989-686-9141
Sec/Treas	Margret Höft (03)	UM-Dearborn	mhoft@umich.edu	313-593-5007
Past Chair	Sidney W. Graham (02)	Central Mich U	Sidney.W.Graham@cmich.edu	989-774-3596
Governor	Jerrold W. Grossman (04)	Oakland U	grossman@oakland.edu	248-370-3443

High School Visiting Lecture Program (HSVLP)

Co-director	Paul Fishback (02)	Grand Valley S U	fishbacp@gvsu.edu	616-895-2443
Co-director	Steven Schlicker (02)	Grand Valley S U	schlicks@gvsu.edu	616-895-2305

Michigan Mathematics Prize Competition (MMPC)

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Exam Committee:				
Chair	Philip J. Hanlon (02)	U of Mich-AA	Phil.Hanlon@math.lsa.umich.edu	734-763-3275
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Member	Ed Aboufadel (04)	Grand Valley S U	aboufade@gvsu.edu	616-895-2445
Member	Eddie Cheng (05)	Oakland U	echeng@oakland.edu	248-370-4024

Ad Hoc Committee to Study Calculator Usage on the MMPC Exam

Chair	Paul J. Eenigenburg	Western Mich U	eenigenburg@wmich.edu	616-387-4522

Program Committee: 2002 Annual Meeting

Chair	John Mooningham (02)	Saginaw Val. S U	jwm@svsu.edu	989-790-4183
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Member	Jim Ham (02)	Delta College	jaham@alpha.delta.edu	989-686-9141
Member	Kristen Moore (02)	U of Mich-AA	ksmoore@umich.edu	734-615-6864

Local Arrangements Committee: 2002 Annual Meeting

Chair	Michael Merscher (02)	Lawrence Tech U	merscher@ltu.edu	248-204-3513
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Member	Ruth G. Favro (04)	Lawrence Tech U	favro@ltu.edu	248-204-3531

Distinguished Teaching Award Committee

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Member	John B. Fink (04)	Kalamazoo C	fink@kzoo.edu	616-337-7062

Nominating Committee

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Member	John O. Kiltinen (02)	Northern Mich U	kiltinen@nmu.edu	906-227-1600

Audit Committee

Member	Gerald D. Ludden	Michigan State U	ludden@math.msu.edu	517-353-6335
Member	Howard Young	U of Mich-AA	hyoung@math.lsa.umich.edu	734-425-1842

Organizing Committee: Upper Peninsula Regional Meeting

Co-chair	Sujay Datta	Northern Mich U	sdatta@nmu.edu	906-227-1584
Co-chair	John O. Kiltinen	Northern Mich U	kiltinen@nmu.edu	906-227-1600
Co-chair	Andrew Poe	Northern Mich U	apoe@nmu.edu	906-227-1598

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St. Act. Crd.	Randall Pruim	Calvin College	rpruim@calvin.edu	616-957-7113
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Women's St.	Jeanne Wald	Michigan State U	wald@math.msu.edu	517-355-9695
MiSMA	Matthew F. Wyneken	U of Mich-Flint	mwyneken@umich.edu	810-762-3313
Liaison Crd.	Robert Molina	Alma College	molina@alma.edu	517-463-7197
Archivist	John W. Petro	Western Mich U	john.petro@wmich.edu	616-387-4591
MCTM Rep.	Renate McLaughlin	U of Mich-Flint	RMcL@umich.edu	810-762-3177

Michigan Section–MAA World Wide Web Site

www.michmaa.org

National MAA Headquarters, Washington, DC

www.maa.org, 800-741-9415

MAA National Memberhsip Form: NEW