



Ohio Focus

The MAA Ohio Section Newsletter

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Fall Meeting at Kenyon College October 30-31, 2009



Kenyon Athletic Center—Registration Location

The Fall Meeting of the Ohio Section MAA will be held at Kenyon College in Gambier, Ohio, on October 30-31, 2009. The meeting will start at noon on Friday, with the first invited lecture starting at 1:30 pm in The Kenyon Athletic Center Theater, and will conclude on Saturday at 12:50 pm. Major addresses will be given by **Tom LaFramboise** of Case Western Reserve School of Medicine, **Ed Packel** of Lake Forest College, **Judith Grabiner** of Pitzer College, and **Judy Holdener** of Kenyon College. Other meeting participants are encouraged to submit talks for the contributed paper sessions on Friday afternoon and Saturday morning. A Friday evening banquet is planned as well.

Meeting Registration

Online registration is preferred. Visit the Section web site at www.maa.org/Ohio on or after September 15, for one-stop registration, banquet reservation, and abstract submission. Online preregistration and banquet reservations closes on **October 23**. Abstracts for contributed papers must be submitted by **October 16**.

On-site meeting registration is always available, but last-minute banquet tickets cannot be guaranteed. Early registration helps those making the meeting arrangements and is always appreciated. Registration will be held beginning 12:00 pm on Friday

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Aparna Higgins New Director of Project NExT

Aparna Higgins, Professor of Mathematics at the University of Dayton, started a five-year term as the new Director of Project NExT (New Experiences in Teaching) on August 16, 2009. Project NExT is a professional development program of the MAA for new or recent Ph.D.s in the mathematical sciences. It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. Project NExT is a program of the MAA with major funding from the ExxonMobil Foundation, and additional funding

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President's Message

Greetings to fellow mathematicians and mathematics students in the Ohio Section:

As is discussed elsewhere in this newsletter, the Fall Meeting is quickly approaching. I want to once again thank our friends at Kenyon College for agreeing to serve as hosts. In particular, thanks go out to Carol Schumacher and Judy Holdener for all of their work as Local Arrangements Coordinators. I also want to publicly thank Tom Gearhart and David Meel, the Local Arrangements Coordinators for last year's meetings at Capital University and at Bowling Green University, respectively.

The Ohio Section has a long tradition of having stimulating meetings each semester where colleagues can gather to enhance their scientific knowledge and learn about innovative pedagogy. At our Spring Meetings, in addition to research and pedagogical talks, we also look forward to showcasing our students' achievements. As the President of the Section, I think that one of the things that I am proudest of is the Section's commitment to student involvement. We see this not only in the high number of student talks given each spring but also in the other programs designed for undergraduates, such as the student competitions and the graduate school panels.

As I was not a student in Ohio, I did not benefit directly from these events. However, I was a direct beneficiary of another program offered through the section: Ohio Project NExT. I joined the Marietta College faculty in August of 1999. Less than two months later, I attended my first Ohio NExT workshop. From then until I gained



tenure (and thus was no longer eligible), I looked forward each semester to these workshops. Even now, I occasionally drop by an Ohio NExT Workshop to share a few ideas.

Of course none of these things happens by spontaneous generation. The officers, committee members, and other volunteers work tirelessly to serve the section. While Local Arrangements Coordinators provide logistical support for the meetings, the Program Committee lines up invited speakers and arranges for contributed talks. The Ohio Project NExT Coordinators organize the workshops that always precede the Section Meetings. Each Spring CONSTUM members write and then grade the exams used in the student competition. And of course the Executive Committee meets to make sure that all of the business of the Section is being transacted appropriately.

In addition to the Section Meetings each semester, the Ohio Section also provides summer activities. This past July, Lew Ludwig and his colleagues on CONSACT helped organize a summer short course on knot theory in conjunction with the UnKnot Conference at Denison University. In past years we have had a wide variety of summer short courses. These are great opportunities for faculty to broaden their knowledge base.

The Section also works with other organizations and with its own members to advance the state of mathematics education. Currently John Prather and his colleagues on CONTEAL are working with Brad Findell of the Ohio Department of Education in the state's efforts to overhaul the mathematics content standards.

The list of activities of the Section goes on. This is all to say that in order for the section to run smoothly, it takes a great amount of effort from a great number of individuals – many of whom operate behind the scenes.

We also get support from the national MAA office in Washington, DC. Please keep in mind that there are no dues for the Ohio MAA. This is because joining the MAA automatically gives you membership in your section. This membership is just one of the many benefits you receive by keeping your MAA membership current. You also get FOCUS and your MAA subscription of choice. (NOTE: The MAA recently decided to give members the option of receiving their journals on-line. Look for more information about this from the national office soon.)

If all of the information here seems like one long advertisement, I apologize. I recently returned from MathFest. While there I was once again reminded of how much the MAA means to me and how much the MAA – in particular the Ohio Section – has helped me as I have grown in my career. I just wanted to use this opportunity to acknowledge the various individuals and committees who help make this the great organization that it is.

In closing, I want to issue a special

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Governor's Report

I just recently returned from MathFest in Portland, Oregon, and my first Board of Governors meeting. MathFest was, as usual, an outstanding meeting with lots of mathematics, many students, chances to see old acquaintances, and plenty of opportunities for people with diverse interests. If you haven't been to MathFest recently, you might want to think about going to one soon. For those of us in the Ohio Section, the next two years will be especially convenient, with MathFest 2010 in Pittsburgh and MathFest 2011 in Lexington, Kentucky. One could even consider driving to one or both of those meetings.

By the time you read this, our Ohio Section colleague Aparna Higgins



will have started her five year term as the National Director of the MAA's Project NExT. I can't think of a better person to take on that role. From what I saw at MathFest, she was getting an early start on her duties. Even though her term didn't officially begin until a couple of weeks after the meeting, she was heavily involved in the NExT program activities in Portland. I think we can all be assured that NExT will be in good hands for at least five more years. Of course, the Ohio Section has been very well represented in the NExT program over the years.

As a new Section Governor, I attended an orientation program prior to the Board meeting. Two things struck me about that afternoon. First of all, as we all introduced ourselves, it became very clear that a large majority of those present owed their "connection" to the MAA to some former colleague who encouraged them (perhaps strongly!) to get involved in the work of the MAA. This is something that each and every member of the MAA, and especially those of us over 40, ought to take to heart. The future of the MAA depends on our efforts to recruit and involve our younger colleagues.

The MAA is always looking for people interested in helping with committee work at the national level. Right now, there are specific

needs for reviewers for MAA Reviews, and for one or two individuals with a solid background in finance to serve on the MAA Investment Committee. If you have any interest in serving at the national level in any capacity, feel free to volunteer your services, either directly to the national organization or by letting me know.

The second thing was that I was surprised to learn the scope of the resources available online at the MAA website, www.maa.org. It's not that I've never used the website before, but I was only familiar with small parts of it. Whether you're looking for information about national or section officers, financial reports, award recipients, news articles, ideas for undergraduate research, or other teaching resources, it's all there. There is information about competitions, student chapters, and national MAA committees. There are electronic versions of Focus and your MAA journals. I could go on, but the point is, there is a lot of information available at the website. If you haven't already done so, some day when you have a spare moment or two, you might want to spend some time exploring the website and MathDL (Digital Library).

At the Board of Governors meeting itself, there were a lot of more or less "standard" reports. We have not been immune to recent economic events, but due to careful management the MAA continues to be in a strong financial position. There seems to be no reason to worry about weathering the storm.

Probably the biggest news has to do with electronic memberships. By "electronic membership", I mean a membership that gives you online access to your journals and

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OHIO FOCUS

The newsletter of the Ohio Section of the Mathematical Association of America, which first appeared in 1973, is published twice yearly in time to reach members before the fall and spring meetings. Newsletters are published online at www.maa.org/ohio. Notification postcards are sent using labels provided by the MAA.

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The deadline for the next newsletter is **February 10, 2010**. E-mail copy is preferred. Early submission is appreciated.

Please send copy to the editor (see above), and also to the Section Webmaster, Darren Wick, for posting on the web (dwick@ashland.edu).

Call for Distinguished Teaching Award Nominations

The Ohio Section Teaching Award Committee encourages you to consider nominating a worthy colleague for the *2010 Ohio Section Award for Distinguished College or University Teaching of Mathematics*. A suitable candidate would be a member of the MAA-Ohio Section with at least five years of college-level teaching experience who is recognized as being an exceptional teacher.

To make a nomination you would need to complete a one-page nomination form, write a description of why you have chosen to nominate the particular individual, and solicit some recommendations from former students and colleagues of the nominee. Forms and other information are available at www.maa.org/ohio under "Events."

The recipient will be announced at the Spring 2010 meeting, and appropriate publicity will be generated at the award winner's institution. The Award Committee will also forward the winner's file to the national MAA

office to be the Section's candidate for the *Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics*. Three winners of the national award are selected each year from the nominees from the sections. Past winners of the Haimo Award have included the Ohio Section's **Aparna Higgins**, University of Dayton (2005), and **V. Frederick Rickey**, Bowling Green State University (1993).

The deadline for nominations is January 1, 2010. Please address inquiries and/or nominations to the Committee chair, Vickie Van Dresar, at vvandres@ashland.edu. Though email is preferred, Vickie may also be reached by mail at Vickie Van Dresar, Ashland University, 401 College Ave, Ashland, OH 44805 or by phone at (419)-289-5265.

Editor's Note: The Fall newsletter usually reports on the winner of the previous year's teaching award. There were no nominations for the Ohio Section Distinguished Teaching Award in 2009, so there was no recipient.

Ohio Project NExT

Ohio Project NExT (New Experiences in Teaching) is a program for new faculty members. Its goal is to help newer faculty to network with colleagues, to share ideas and experiences that promote professional growth, and to encourage faculty to become involved in the Ohio Section.

On Thursday evening, October 29th, the night preceding the Ohio Section Fall Meeting, members of Ohio Project NExT will gather for a banquet beginning at 7:00 p.m. This is a great opportunity to meet old friends and make new ones. After the banquet, the NExTers will spend an hour or so discussing a topic related to the profession.

Then, on Friday morning, October 30th, the Ohio NExT program will continue on the Kenyon College campus. The program will feature a workshop led by Edward Packel of Lake Forest College entitled "Integrating Teaching, Research and Appropriate Use of Technology," a workshop led by Judith Grabiner of Pitzer College entitled "Math for Liberal Arts: Mathematics, Culture, and Students," as well as contributed talks by Ohio NExTers.

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Centennial History of the Ohio Section

Did you know that the Ohio Section is as old as the MAA itself? On December 31, 1915, Ohio became the first section to submit its application for a charter, and the first annual meeting of the Ohio Section was held in Columbus on April 21-22, 1916. In 2015 both the MAA and our Section will be celebrating a centennial. As part of this observance we will be updating the History of the Ohio Section. (A 75-year history, published in 1990, is on the Governance page of the Section web site, www.maa.org/Ohio.)

Here are two ways that you can help:

1. Write a history of mathematics at your institution. When was the school founded? Who were some of the early math faculty? What are some important milestones for your department? What curriculum changes have taken place over the years? If your school has hosted an Ohio Section meeting recently, a starting point for your department's history may be the article that appeared in *Ohio Focus* prior to that meeting.
2. Write a biographical sketch of a mathematician from

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Student Activities at the Spring 2009 Meeting

The sixth annual Student Team Competition was held at Bowling Green State University on Friday, April 3, 2009. Eighty-three students participated, forming thirty-one teams and representing seventeen institutions: Ashland University, Bowling Green State University, Case Western Reserve University, Cleveland State University, Denison University, John Carroll University, Kenyon College, Marietta College, Marshall University, Ohio Northern University, Ohio Wesleyan University, Shawnee State University, University of Akron, University of Findlay, Wittenberg University, Xavier University, and Youngstown State University.

The winning teams were:

First Place (\$120) – Case Western Reserve University, Team 2 (Stephanie Cockrell, Fred Douglas, Amalie McKee).

Second Place (\$60) – Case Western Reserve University, Team 1 (David Kent, Charles Pairan,

Michael Steward).

Third Place (\$45) – Ohio Northern University, Team 1 (Gregory Back, Andrew Magyar, Joshua Stoffel).

During the Friday evening pizza party, students were provided with sample practice problems for the math subject GRE. In addition, for about the last 30 minutes of the party, a panel consisting of math graduate students talked about their graduate experiences. Topics such as application tips, typical first year course schedules, teaching loads, and undergraduate backgrounds were discussed. The panel discussion was moderated by Professor Michael Ferrara from the University of Akron.

There were 44 students registered to give talks during the meeting.

John Whitaker

Chair, Committee on Student Members (CONSTUM)

Ohio Section 2009 Summer Short Course

On July 13-14, Denison University hosted the Ohio MAA Section Short Course entitled *Knot Theory*, conducted by Colin Adams of Williams College. The workshop had 20 participants from around the nation. Participants were introduced to a wide variety of knot-related topics to use in their classrooms, their research, or research with students.

The workshop was followed by the first ever undergraduate Knot Theory conference, the *UnKnot Conference*. This three day national conference organized by Colin Adams and Lew Ludwig, was hosted by Denison University with generous support from the NSF. There were 110 participants, 16 invited speakers and over 40 contributed talks from undergraduate students and faculty. It was a wonderful opportunity for

active researchers to interact with undergraduate students and faculty in a meaningful way. All but two of the Short Course participants stayed to participate in the *UnKnot Conference*.

Lew Ludwig

Chair, Committee on Section Activities (CONSACT)



A human knot at the UnKnot Conference

Revising Ohio's Mathematics Standards

The revision of Ohio's mathematics standards was formally launched in July 2009 with the inaugural meeting of the Mathematics Advisory Committee, which includes representatives of various mathematics organizations in Ohio as well as other key constituencies. John Prather, Ohio University-Eastern, is representing the Ohio Section of the MAA. The Advisory Committee provides guidance and feedback to the Ohio Department of Education (ODE) staff and the grade-band working groups that will be producing the revised documents. The State Board of Education is required to adopt revised standards by June of 2010.

The revised mathematics standards will be structured so that each grade and course focuses in depth on a small number of big ideas. The intent is to overcome the "mile-wide-inch-deep" characterization of the U.S. mathematics curriculum. The draft outline and revised standards draw on several sources: (1) the curriculum standards from high-achieving countries; (2) the **Curriculum Focal Points** (National Council of Teachers of Mathematics, 2006), which identifies three big ideas for each of Pre-K through Grade 8; and (3) the draft **College and Career Readiness Standards for Mathematics**, released in July 2007 as part of the Common Core State Standards Initiative.

For strong alignment with the Common Core State Standards Initiative, the Mathematics Advisory Committee and the Mathematics Working Groups have adopted the following strategy for high school

mathematics:

- Describe the college and career-ready mathematical expectations of high school graduates, making certain that the expectations do not merely repeat middle grades content.
- Organize that content into course sequences, drawing on Ohio's Program Models for Mathematics.
- Name the courses and course sequences.

Additional meetings of the Mathematics Advisory Committee and the Mathematics Working Groups are scheduled for September and October in order to have draft standards completed by the end of October 2009. At the Fall Meeting of the Ohio Section of the MAA, a contributed paper session on Friday evening will provide an overview of the draft standards. On Saturday, MAA members will have an opportunity to engage in the draft documents and provide feedback.

For comments or questions, please contact Brad Findell. You can also contact John Prather at prather@ohio.edu.

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Campus Notes

Ashland University: Boris Kerkez received tenure and has been promoted to Associate Professor of Computer Science, effective Fall 2009.

Baldwin-Wallace College: Dr. Berhane Ghaim has accepted a new position at Southeastern University in Central Florida.

Bowling Green State University: We're sad that David Meronk died this past July. David served in the U.S. Air Force during the Korean War, and was a professor of Mathematics at Bowling Green State University for over 37 years. Gabor Szekely and Sergey Shpectorov retired from BGSU. Gabor is now at the NSF in Washington, D.C., and Sergey joined the School of Mathematics at the University of Birmingham,

UK. Both will be missed, after many fruitful years at BGSU. Alexander Izzo returned from the IMA and was promoted to Full Professor. Ben Otto (PhD, Univ. of Wisconsin-Madison) joined the department as a new Post Doc. Ben specializes in character theory, group theory and nilpotent algebras.

Capital University: The Department of Mathematics, Computer Science, and Physics at Capital University is pleased to welcome two new colleagues who join the department at the rank of Assistant Professors. Dr. Paula Federico received her Ph.D. from the Department of Ecology and Evolutionary Biology at the University of Tennessee. In addition to teaching mathematics courses, she will be contributing to the university's

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Fall Meeting Program

Events will take place in the Kenyon Athletic Center (KAC), Tomsich Hall, Hayes Hall, Peirce Hall, and Higley Hall.
The locations of these buildings can be found on the campus map on page 12.

Friday, October 30

11:30-12:00	Nominating Committee	KAC 205
12:00-4:30	Registration	KAC Lobby
12:00-1:00	Committee Meetings:	
	CONCUR	KAC 103
	CONSACT	KAC 205
	CONSTUM	KAC 223
	CONTEAL	KAC 230
	Centennial Committee	TBA
1:00-4:30	Vendor and Book Exhibits	KAC Multi-purpose Rm
1:15-1:30	Welcome & Announcements	KAC Theater
1:30-2:30	Invited Address: "Mathematics in Biomedical Research" Tom LaFramboise Case Western Reserve University School of Medicine	KAC Theater
2:30-3:00	Break	KAC Multi-purpose Rm
3:00-4:00	Invited Address: "Recent Results in Projectile Motion and a Plug for Experimental Mathematics" Ed Packel Lake Forest College	KAC Theater
4:15-6:10	Contributed Paper Sessions	Tomsich Hall, Hayes Hall
4:15-6:10	Executive Committee meeting	Hayes Hall, Rm 215
6:05-6:30	Social time	Peirce Hall Pub
6:40-8:00	Banquet	Peirce Hall Pub
8:00-8:45	After-Dinner Talk: "It's All for the Best: Optimization in the History of Science" Judith Grabiner Pitzer College	Peirce Hall Pub

Saturday, October 31

8:00-10:15	Registration	Higley Hall Lobby
8:00-10:15	Vendor and Book Exhibits	Fischmann Hall Lobby
8:00-8:50	Continental Breakfast	Higley Hall Lobby
8:05-8:40	Executive Committee meeting (if necessary)	Hayes Hall 215
8:50-8:55	Announcements	Higley Hall Auditorium
8:55-9:55	Invited Address: "Mental Imagery in Mathematics" Judy Holdener Kenyon College	Higley Hall Auditorium
9:55-10:15	Break	Higley Hall Lobby
10:25-11:40	Contributed Paper Sessions	Tomsich Hall, Hayes Hall
11:50-12:50	Invited Address: "Lagrange, Symmetry, and Space" Judith Grabiner Pitzer College	Higley Hall Auditorium

Event locations are subject to change. Check the official program you receive when you register for the meeting in the KAC Lobby.

For additional meeting details, see pages 8-13.

Check the Section web page, www.maa.org/ohio, for updates, and online registration and paper submissions.

Invited Speaker at the Fall Meeting – Judith V. Grabiner

“It’s All for the Best: Optimization in the History of Science”

Many problems, from optics to economics, can be solved mathematically by finding the highest, the quickest, the shortest – the best of something. This has been true from antiquity to the present. Why did people start looking for such explanations, and how did we come to conclude that we could productively do so? Scientific examples will include problems from ancient optics, and more modern questions in optics and classical mechanics, drawing on ideas from Newton’s and Leibniz’s calculus and from the Euler-Lagrange calculus of variations. A surprising role will also be played by philosophical and theological ideas, including those of Leibniz, Maupertuis, MacLaurin, and Adam Smith.



She is a member of the AMS, the MAA, the History of Science Society, the British Society for the History of Mathematics, the Canadian Society for the History and Philosophy of Mathematics, and the Scottish 18th-Century Studies Society. She has held a Woodrow Wilson Fellowship, an American Council of Learned Societies Fellowship, and two National Science Foundation fellowships. She has taught at Harvard, UC Santa Barbara, California State University, Dominguez Hills, UCLA, Pomona College, and the University of Leeds, England. She now teaches at Pitzer College, one of the Claremont Colleges in Claremont, California, where she is the Flora Sanborn Pitzer Professor of Mathematics. She has been a Visiting Scholar at the University of Leeds, England; University of Edinburgh, Scotland; Cambridge University, England; The Australian National University; and the University of Copenhagen, Denmark.

“Lagrange, Symmetry, and Space”

In 1806, Joseph-Louis Lagrange read a memoir proving Euclid’s parallel postulate to the Académie des Sciences in Paris, but stopped, saying, as the story goes, said, “I have to think about this some more.” We’ll look at Lagrange’s (still unpublished) Paris manuscript on this subject, and place this activity in the context of his mathematical career. We also look at how the ideas in this manuscript are related to Lagrange’s philosophy of mathematics, Newtonian mechanics, Leibniz’s Principle of Sufficient Reason, and the fine arts. Finally, we reflect on what this episode tells us about eighteenth-century – and modern – attitudes toward geometry and space.

Judith Victor Grabiner was born in Los Angeles, California, in 1938. She received her B.S. in Mathematics, with General Honors, from the University of Chicago in 1960, her M.A. in the History of Science from Radcliffe College, and Ph.D. in the History of Science from Harvard in 1966. Her thesis advisors were I. Bernard Cohen and Dirk J. Struik. She is a member of both Phi Beta Kappa and Sigma Xi. She was a Sigma Xi Society National Lecturer in 1988-90.

Judith has been co-president of the West Coast History of Science Society, and Chair of the Southern California section of the Mathematical Association of America.

Among the many awards Judith has received are three Carl Allendoerfer Awards (for the best article in the *Mathematics Magazine*, 1984, 1988, 1996), and three Lester Ford Awards (for the best article in the *American Mathematical Monthly*, 1984, 1998, 2005). She won the Outstanding Professor Award at California State University, Dominguez Hills, in 1975. In 2002, she won the Award for Distinguished College or University Teaching from the Southern California Section of the MAA. In 2003, she won the national Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of the Mathematical Association of America.

Judith has published many articles about the history of mathematics, and some about other aspects of the history of science, including “Effects of the Scopes Trial” (with Peter D. Miller) and several articles about Artificial Intelligence. She is the author of *The Origins of Cauchy’s Rigorous Calculus* (M.I.T. Press, 1981), which was reprinted by Dover in 2005. She is also the author of *The Calculus as Algebra: J.-L. Lagrange, 1736-1813* (Garland, 1990). Her CV reveals that she has published over thirty-five book reviews, and given 35 talks at national and international meetings. She has just “published” a course based on her liberal-arts teaching experience for The Teaching Company. The course is called “Mathematics, Philosophy, and the ‘Real World’”.

Invited Speakers at the Fall Meeting

Tom LaFramboise

“Mathematics in Biomedical Research”

Every undergraduate mathematics student becomes acquainted with a wide array of mathematical applications in sciences such as physics, chemistry, biology, and economics. Indeed, rigorous mathematical training is a requirement for most science majors. Traditionally, however, there has been a disconnect between the academic worlds of mathematics and biomedicine. This is beginning to change. Largely driven by the recent completion of the federally-funded Human Genome Project, the last several years have seen an explosion of genomic data, and a corresponding need for quantitative methods to analyze and interpret the data. In this talk, we provide a brief overview of the burgeoning field of computational genomics. We also give several vignettes demonstrating the contributions that mathematicians, statisticians, and computer scientists can make (and have made!) to advances in human health and disease treatment.



Tom LaFramboise earned his B.S. from the University of Michigan at Ann Arbor and his Ph.D. from the University of Illinois at Urbana-Champaign, both degrees in pure mathematics. After a year as Visiting Assistant Professor at Kenyon College, he spent several years as Assistant and Associate Professor in the mathematics department at Marietta College. During this time, he was active in the Ohio MAA and Project NeXT. In 2002, Tom rashly decided to turn his back on tenure to retrain in biostatistics, earning a Master’s degree at the Harvard School of Public Health, which led to a postdoctoral position in cancer genomics in at the Dana-Farber Cancer Institute and the Broad Institute of Harvard/MIT. He joined the Genetics department at the Case Western Reserve University School of Medicine in 2006 – his third consecutive nation-wide job search that landed him in Ohio – where he is once again an Assistant Professor without tenure. His research is devoted to understanding the molecular changes that lead to cancer initiation, progression, and metastasis. He lives with his wife and two children in Shaker Heights, outside of Cleveland.

Judy A. Holdener

“Mental Imagery in Mathematics”

In the mid 1950’s, French mathematician Jacques Hadamard wrote about the significant role mental images play in the creation of mathematics. His writings were based not only on his own experiences, but also on the experiences of Carl Friedrich Gauss, Hermann von Helmholtz, Henri Poincaré and other renowned mathematicians and theoretical physicists. I am no Gauss, but as an artist and a mathematician, I, too, find that imagery plays a significant role in mathematical thought. Furthermore, I believe mental imagery can play a critical role in the teaching of mathematics. By sharing mental images with our students, I believe we can make the mathematics classroom a more inclusive place. In my talk, I will speak about my use of imagery in the mathematics classroom, providing concrete examples along the way.

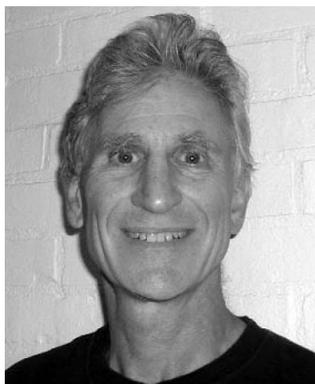


Judy Holdener received her Ph.D. at the University of Illinois-Urbana in 1994 and joined Kenyon’s Mathematics Department in 1997, after spending three years at the U.S. Air Force Academy in Colorado Springs, CO. Although her current research interests reside primarily in the areas of algebra and number theory, she has been known to work in other areas when an intriguing question arises ... especially if the question is accessible to undergraduates. Judy has collaborated with students on research projects relating to algebra, number theory, dynamical systems, and mathematical biology, and their work has culminated in research publications and presentations at national math conferences. In 2007, Judy was awarded the John B. McCoy Banc One Distinguished Teaching Chair at Kenyon, and in 2003 she was awarded Kenyon’s Tomsich Science Award as well as the Board of Trustees Junior Teaching Award. She was awarded the 2008 Ohio Section Award for Distinguished College or University Teaching. Judy was a national Project NExT fellow (a green dot) in 1995-96. Currently she is the Chair of the Mathematics Department at Kenyon.

Invited Speaker at the Fall Meeting – Ed Packel

“Recent Results on Projectile Motion and a Plug for Experimental Mathematics”

Recently developed results on projectile motion with linear resistance will be discussed along with the surprising role played by *Mathematica* in the discovery process. These results include several new formulas involving the Lambert W function and a general theorem about real analytic functions. In particular, symbolic solutions are found for the range of a projectile and the launch angle that maximizes the range.



Ed Packel did his undergraduate work at Amherst College and received a Ph.D. in Mathematics (functional analysis) from M.I.T. in 1967. Since 1971 he has taught at Lake Forest College, where he served as

department chair from 1986 to 1996. His research interests have oscillated among functional analysis, game theory, social choice theory, information-based complexity, and the use of technology (primarily *Mathematica*) in teaching.

An early interest in *Mathematica* has resulted in a fruitful collaboration with Stan Wagon that includes a *Mathematica* laboratory textbook ("Animating Calculus") and, for the past 15 years, teaching the Rocky Mountain *Mathematica* summer workshops in Colorado.

Packel's recreational enthusiasms have somehow gravitated towards sports where low numbers are good—namely, competitive distance running and golf.

Call for Contributed Papers

Fifteen-minute presentations on any topic of general interest in mathematics or related areas are encouraged for the Contributed Paper Sessions on Friday afternoon and Saturday morning at the Fall Ohio Section meeting. Reports on projects, research announcements, or anything you believe would be of interest to those in attendance are welcome. Graduate students in mathematics or mathematics education are strongly encouraged to submit talks. Contributors should send a title and brief abstract by **Friday October 16, 2009**.

Although online submission with your meeting registration is preferred, you may submit your title and abstract to the chair of the Program Committee, Brian Shelburne, by e-mail at bshelburne@wittenberg.edu, or by U.S. mail at Department of Mathematics and Computer Science, Wittenberg University, Box 720, Springfield, OH 45501. Please use only plain text in your title and abstract as the abstract submittal system cannot process TeX or other graphics code.

Each presentation room will have a whiteboard or chalkboard, computer projector, and laptop connections. Presenters can either plug their laptops into the overhead projection system or plug a flash drive into the resident computer. If internet access is needed, please mark the appropriate box when submitting your abstract online. Overhead projectors are available upon request. Please mark the appropriate box when submitting your abstract online. Speakers with specific questions about technology availability should contact Carol Schumacher at schumacherc@kenyon.edu.

Submit abstracts online at the Section web page: www.maa.org/ohio.

State Science Day Judges Needed

Every year, the Ohio Academy of Science hosts State Science Day, where students in grades 5-12 from around the state present posters about their research projects in the sciences. In the past, the Ohio Section has sponsored an award of \$100 and a subscription to *Mathematics Magazine* for a project demonstrating excellence in Mathematics. If we are to sponsor this award in the future, the Section must be represented by a judge at State Science Day in Columbus on May 8, 2010. If you are interested and willing to serve in this capacity, please contact the Section President, Mark Miller, at millerr@marietta.edu.

More information about State Science Day can be obtained from the OAS, at www.ohiosci.org/.

Driving Directions to Kenyon College:

From the north or northwest: Take Interstate 75 South to Findlay and exit onto U.S. 23/Ohio 15 South. Take 23 South to Ohio 95 East in Marion. Follow 95 East to Ohio 13 South in Fredericktown. Take 13 South to Mount Vernon. Or take Interstate 71 South and exit onto 13 South at Mansfield. Follow 13 South to Mount Vernon.

From South Main Street in downtown Mount Vernon, take Ohio 229 East (East Gambier Street).

From the east or northeast: Take Interstate 71 South and exit on Ohio 13 South at Mansfield. Follow 13 South to Mount Vernon. From South Main Street in downtown Mount Vernon, take Ohio 229 East (East Gambier Street). Or take Interstate 77 South and exit onto U.S. 62 West. Follow 62 to Millwood and exit on U.S. 36 West. Follow 36 to Ohio 308 and turn left (south) onto 308, which leads directly into Gambier.

From the east or southeast: Take Interstate 70 West and exit onto Ohio 13 North at Newark. Follow 13 North to Mount Vernon. Or take Interstate 77 North to Interstate 70 West. Follow I-70 West and exit onto 13 North at Newark. Follow 13 to downtown Mount Vernon.

From there, turn right (east) from Main Street onto Ohio 229 (Gambier Street) to Gambier.

From the west or southwest: Take Interstate 71 North from Columbus and exit onto U.S. 36 East. Follow 36 East to Mount Vernon. From South Main Street in downtown Mount Vernon, take Ohio 229 East (East Gambier Street).

Parking: Campus parking will be available at the Kenyon College Athletic Center on Friday afternoon and in the Science Quad and Library parking lots on Saturday morning.

Registration and the initial events for the Fall meeting will take place at the Kenyon Athletic Center. So conference participants will want to come there, initially. From the center of Kenyon's campus at the intersection of Route 308 and Wiggin Street, follow Wiggin Street east for about 100 yards and make a right turn onto Duff Street. The Kenyon Athletic Center is located at the end of Duff Street on the left. Alternatively, enter Gambier by turning directly off of State Rte. 229 onto Duff Street. The KAC is a block ahead on your right.

Where to Stay

For your convenience, blocks of rooms have been reserved at the Kenyon Inn and Holiday Inn Express. See the Local Arrangements web page at www.kenyon.edu/maasectionmeeting for lists of hotel amenities. See your favorite online map tool for maps and driving directions.

Kenyon Inn - Located across the street from the Kenyon campus.

Wiggin Street

Gambier, OH 43022

Phone: 800-258-5391, 740-427-2202

www.kenyoninn.com/kenyoninn/

27 rooms reserved for Thursday, October 29, and Friday, October 30.

\$85.00 per night, plus tax

Rooms will be held until October 25th.

When making your reservation, please reference Group Code: Ohio Section MAA Meeting

Holiday Inn Express - Located in nearby Mount Vernon, about 4 miles from the campus.

Mount Vernon, OH 43050

Phone: 800-465-4329, 740-392-1900

www.ichotelsgroup.com/h/d/ex/1/en/hotel/mvroh

25 rooms reserved for Thursday, October 29, and Friday, October 30.

\$89.00 per night, plus tax

Rooms held until October 16th.

When making your reservation, please reference Group Code: KCM

Curtis Inn on the Square (smoking rooms available)

6 Public Square, Mt. Vernon, OH 43050

Phone: 740-397-4334

Comfort Inn (smoking rooms available)

150 Howard Street, Mount Vernon, OH 43050

Phone: 740-392-6886 Fax: 740-392-3194

The Gambier House (bed and breakfast; right across the street from the campus)

107 East Wiggin Street, Gambier, OH 43022

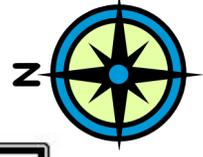
Phone: (740) 427-2668.

Russell Cooper House (bed and breakfast; about 5 miles away in nearby Mount Vernon)

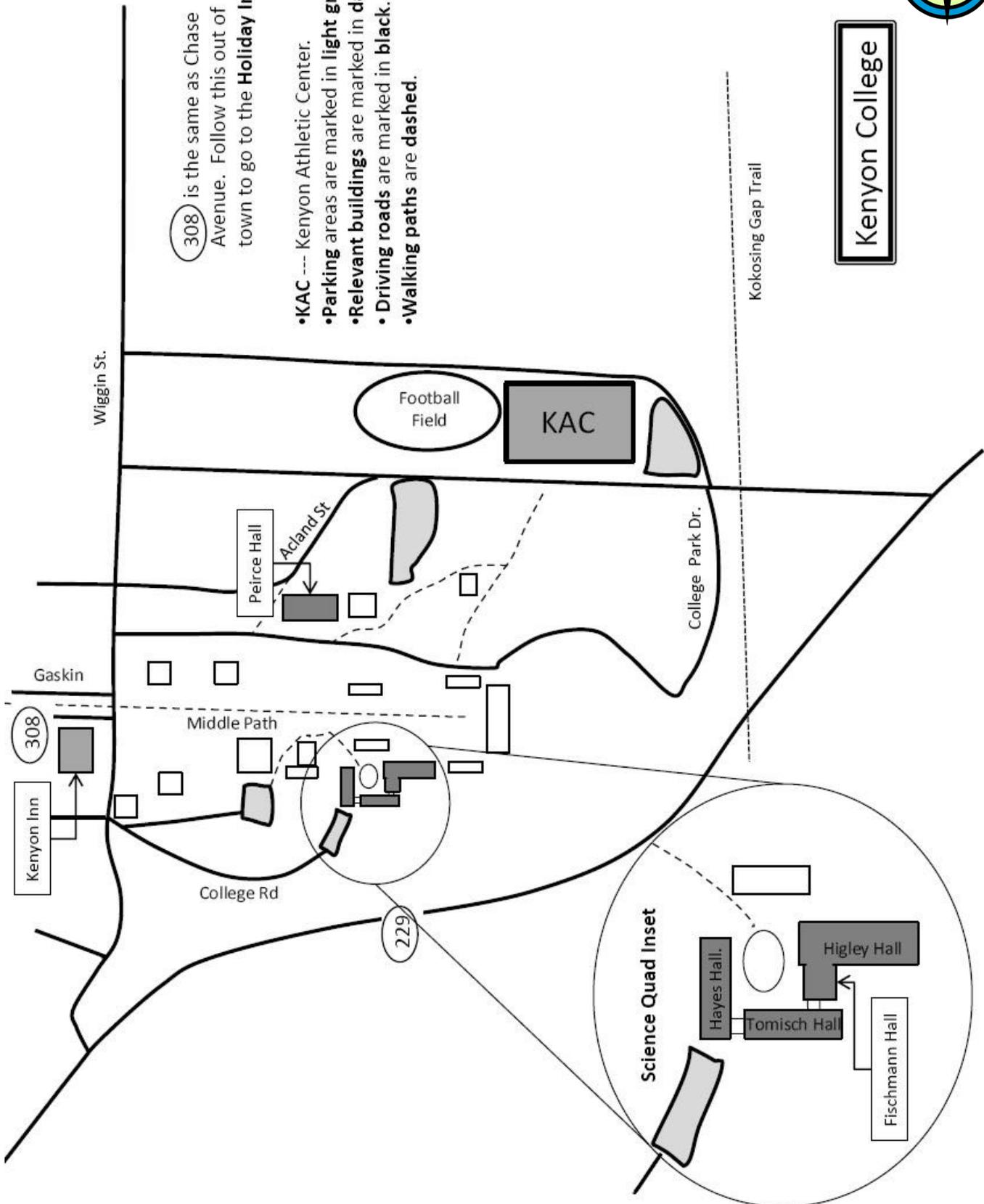
115 E Gambier St

Mt Vernon, OH 43050-3509

(740) 397-8638



Kenyon College



- **308** is the same as Chase Avenue. Follow this out of town to go to the **Holiday Inn**.
- **KAC** --- Kenyon Athletic Center.
- **Parking areas** are marked in **light gray**.
- **Relevant buildings** are marked in **dark gray**.
- **Driving roads** are marked in **black**.
- **Walking paths** are **dashed**.

About Kenyon College

Kenyon is one of the nation's finest liberal arts colleges, a small school where academic excellence goes hand in hand with a strong sense of community. It brings together 1,600 young men and women to study on an exceptionally beautiful hilltop campus in central Ohio. The curriculum is rooted in the traditional liberal arts and sciences, and enriched by interdisciplinary programs. The College sets high academic standards and looks for talented students who love learning. Small classes, dedicated teachers, and friendly give-and-take set the tone. Kenyon welcomes curiosity, creativity, intellectual ambition, and an openness to new ideas. Learning is viewed as a challenging, deeply rewarding, and profoundly important activity, to be shared in a spirit of collaboration.

Kenyon's greatest strength is its faculty, outstanding scholars who place the highest value on teaching. Close interaction with students is the rule: professors become mentors and friends. Requirements are flexible enough to allow for a good deal of exploration. Other notable strengths include a distinguished literary tradition, many opportunities for research in the sciences, and programs connecting students to the rural surroundings. The Kenyon experience fosters connections of all kinds—to classmates and teachers and friends, to the life of the mind, to global perspectives, to our unique traditions and history, and to a place of inspiration.

Campus Notes

(Continued from page 6)

Computational Science program. Dr. Leigh Slauson received her Ph.D. in Mathematics Education from The Ohio State University. Her area of concentration is statistics education and she is active in the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE). David Reed, Computer Science, and Jon Stadler, Mathematics, were promoted to Full Professor effective Fall, 2009.

Central State University: The department has recently hired Dr. ZhenJun Shi as Assistant Professor of Mathematics. Dr. Shi's research interests are Nonlinear Programming, Optimization Theory and Applications, and Mathematical Models and Algorithms in Science, Engineering, and Management.

Denison University: The

Department of Mathematics and Computer Science is pleased to announce a new tenure track position for the fall of 2010. This position is an expansion that will help the department better manage sabbatical leaves. For more information, please visit <https://employment.denison.edu>.

John Carroll University: Dr. Linda Seiter has been granted tenure and promotion to Associate Professor of Computer Science.

Kent State University – Stark: The degree program in mathematics continues to grow and plans are in place for an exciting academic year in 2009-2010. Dr. Paul Abraham was appointed as the Interim Assistant Dean of Kent State University Stark Campus. Dr. Bathi Kasturiarachi assumed the position of Coordinator of Mathematics. In spring 2009, Dr. Relja Vulcanovic completed his

Meeting Registration

(Continued from page 1)

in the Lobby of the Kenyon Athletic Center and will continue Saturday morning at 8:00 am in the lobby of Higley Hall in the Science Quad on the Kenyon Campus.

Meeting participants who are unable to register online at www.maa.org/Ohio may register by mail by sending the following information: name, affiliation, address, phone, e-mail address (if any), type of position, and banquet buffet reservation. Send with check, payable to Ohio Section MAA, for applicable fees [registration fee (\$25 ordinary registration, \$10 retired or part-time, no fee for students or first-time attendees), banquet buffet fee (\$28 per person)] to: Ohio Section MAA Fall Meeting, c/o Dr. Carol Schumacher, Department of Mathematics, Kenyon College, Gambier, OH 43022. Phone (740-427-5265), FAX (740-427-5573).

Registration is always pending upon receipt of registration fees.

sabbatical at the Department of Computational Linguistics at University of Trier, Germany. The department welcomes Dr. Oliver Ruff to its faculty. Dr. Ruff holds a PhD in ring theory (algebra) from the University of Oregon.

Lakeland Community College and Lorain County Community College: Carl Stitz of Lakeland Community College and Jeff Zeager of Lorain County Community College have written a College Algebra book which they are giving away for free. Visit www.stitz-zeager.com for details.

Marietta College: Matt Menzel

(Continued on page 15)

Centennial History

(Continued from page 4)

your institution or town. Perhaps you already know of someone who was active in the early years of the MAA. The *Ohio Section History* includes appendices listing officers and invited speakers. Another helpful resource is the *Register of [MAA] Officers and Members*, which was published as part of the *American Mathematical Monthly*, from 1916 into the 1940s. Toward the end of each *Register*, there is a Geographical Distribution of Individual Members, where you can search for your city or town and see who the MAA members were. If you find a name appearing frequently over the years, this may be someone about whom you can learn more and thus contribute to the history of our section. If you have access to JSTOR, you can do all this in the comfort of your home or office.

You can see examples of biographical sketches and department histories at *Ohio Masters of Mathematics* on the main page of the Section web site. Once you have some information to share, please post it on our wiki. An OhioMAA wiki has been established at <http://ohiomaa.wikispot.org/>. Directions regarding how to contribute will be posted on the front page of that site.

David Kullman
Miami University
Chair, Ohio Section Centennial
Committee

MAA memberships expire in December. Remember to renew your membership for 2010. You can do so at the MAA website, www.maa.org/.

Ohio Project NExT

(Continued from page 4)

At last spring's meeting, the NExT workshop at Bowling Green State University featured Fred Rickey of the United States Military Academy and Gavin LaRose of the University of Michigan for the fifty-minute workshops. Katie Cerrone Arnold of the University of Akron and Leah Gold of Cleveland State University gave 15-minute talks.

Ohio Project NExT is open to anyone in the Ohio Section who is in his/her first five years of teaching in Ohio. If this applies to you, please consider joining us this fall for our NExT Banquet and Workshop, as well as the Ohio Section Meeting that follows. Please contact Chris Swanson (cswanson@ashland.edu) for membership information and details.

Ohio Project NExT is coordinated by Wiebke Diestelkamp, University of Dayton (wiebke@udayton.edu); John Prather, Ohio University Eastern Campus (john_prather@skynet.eastern.ohiou.edu); and Chris Swanson, Ashland University (cswanson@ashland.edu).

Election Results

The Ohio Section held a number of elections last spring. The winners are listed below. Terms expire at the close of the Spring Section Meeting.

Section Governor: Al Stickney, Wittenberg University. Al will be the Section Governor until 2012.

President-Elect: Don Hunt, Ohio Northern University. Don will become Section President for 2010-2011.

Program Committee: David Singer, Case Western Reserve University. David will serve on this committee until 2012, and he will chair the committee in 2011-2012.

Secretary-Elect: Pamela Warton, University of Findlay. Pamela will become the Section Secretary for 2010-2013.

Treasurer-Elect: Brian Shelburne, Wittenberg University. Brian will become the Section Treasurer for 2010-2013.

President's Message

(Continued from page 2)

note of recognition to our friend and colleague, Aparna Higgins at the University of Dayton. Aparna was recently selected to head the national MAA Project NExT. Over the years Aparna has served the Ohio Section well in various aspects of leadership, including Section President. She also has a well-established national reputation as an educator *par excellence*. Congratulations, Aparna, and thank you for your willingness to accept this position of leadership.

In closing, I look forward to seeing you all at Kenyon College in October!

Mark Miller
Marietta College
President

P.S. As the Fall Meeting occurs over the Halloween weekend, our Past-President has suggested that we all attend in costume.

Aparna Higgins

(Continued from page 1)

from numerous other foundations, professional organizations and the MAA, including several MAA Sections. Each year, a new cohort of 70-80 Project NExT Fellows is selected. For these Fellows, the year of their Fellowship is their first or second year of full-time post-PhD college or university teaching in mathematics. Project NExT Fellows attend three consecutive national meetings of the MAA, where they participate in sessions organized for them and by them, and network with other mathematicians. Each Fellow is assigned a consultant who serves as a friend in the profession but outside the Fellow's department. The Fellows and their consultants build a community by communicating through an electronic list-serve during the first Fellowship year and beyond.

Aparna is taking over from T. Christine Stevens, who has been Director or Co-Director (with the late Jim Leitzel) of Project NExT for the past sixteen years, ever since its inception. There are currently 1170 Project NExT Fellows nationwide. Aparna has been a Co-Director of the program for ten years. She has been involved in all aspects of Project NExT, including selecting the Fellows, crafting the



The Project NExT Leadership Team at MathFest. From left to right: Chris Stevens (retiring director), Joe Gallian, Aparna Higgins, Judith Covington, Gavin LaRose.

workshop programs, helping the Fellows through their first year, and assisting them in planning their workshops at their third national meeting. In addition, she has presented minicourses on undergraduate research to all but one cohort of Fellows.

Her familiarity with the program provides for a smooth transition, and her enthusiasm for mathematics, for teaching, and for working with mathematics students makes her an excellent choice to lead this important program that has helped so many Fellows

become successful teachers and scholars and engaged members of the mathematical community.

*Wiebke Diestelkamp
University of Dayton*

Editor's Note: The Ohio Section is well-represented in Project NExT: Six of the 2009-2010 Project NExT Fellows, and approximately 55 of the Fellows from the years 1994-2009, are at institutions in the Ohio Section. The Section also has its own version of Project NExT. See the article on page 4 for details.

Campus Notes

(Continued from page 13)

was tenured and promoted to Associate Professor.

Ohio Northern University: The mathematics department at ONU has a new name, new facilities and a new chair. The Department of Mathematics and Statistics now resides in the Mathile Center for the Natural Sciences. The new student-centered academic research and learning facility connects our old home, Meyer Hall of Science, with the Robertson-Evans Pharmacy building. Don Hunt is the new chair of the department. He succeeds Bob Hovis who retired last

spring after 34 years of dedicated service to ONU. Mamunur Rashid is back for a second year as a Visiting Assistant Professor of Statistics. We also have two new visiting faculty members for the 2009-10 academic year. Deniz Akdemir joins the department as a Visiting Assistant Professor of Statistics. He received a PhD in Statistics at Bowling Green State University in May 2009. Mohammad Zaki joins the department as a Visiting Assistant Professor of Mathematics. He comes to us from the University of Illinois where he earned his PhD in mathematics. Finally, Maria Raiti has been granted a leave of absence for this year.

(Continued on page 16)

Governor's Report

(Continued from page 3)

newsletters without any paper copies being sent to you via US mail.

Assuming it can be implemented in time, there will be an all electronic membership option for 2010. If you haven't already renewed, you might want to wait a while to see what you get in the mail over the next few months. It's important to understand that in this first year it's something of an experiment. The program is quite likely to evolve over the next few years and nobody expects that the 2010 model will continue unchanged into the future. There will only be one electronic option for 2010, and that will include electronic subscriptions to all three journals. It will not include hardcopy of anything. Of course, you will be free to print copies of whatever you access online. It's also important to know that, at least for 2010, all of the non-electronic membership options will continue to be available unchanged.

Student memberships will be going "all electronic"

sometime in the near future as well, probably for the 2010-11 academic year. The current plan is to have all student memberships be electronic. Whatever you think of electronic memberships, be sure to share your thoughts and concerns with me. At the national level, these changes are being thought of as "pilot" programs, and feedback from the membership is not only welcomed, but encouraged.

The Ohio Section has a record that we can be proud of, and I urge you to continue seeking ways to participate in Section activities. Maybe now is the time you could expand your horizons and volunteer for something at the national level as well. Both the Section and the national MAA value your input and your help. I look forward to seeing you at Kenyon this fall. Bring someone new to the meeting with you if you can! Perhaps I'll also see you in San Francisco at the Joint Meetings next January.

Al Stickney
Wittenberg University
Section Governor

Campus Notes

(Continued from page 15)

Ohio Wesleyan University: The Mathematics and Computer Science Department is delighted to announce that Dr. Craig Jackson has joined the department this year as an assistant professor. Craig has a bachelor's degree from the University of Alaska, a master's from Ohio State, and a Ph.D. from the University of Chicago. His research area is geometric representation theory, and he joins us as our "discrete" person.

Otterbein College: We welcome a new colleague this fall. Dr. Adriana Nenciu joins us as an Assistant Professor with a PhD in algebra from the University of Florida, with MS and BS degrees from the University of Florida and the University of Bucharest, Romania. Her specialty is in group theory. Adriana taught previously in a post-doctoral position at the University of Wisconsin-Madison. This past spring, Otterbein hosted the 12th Annual ECC Undergraduate Mathematics Competition on April 4. Marietta teams took first and second places, with a team from Otterbein taking third place. (East Central Colleges is a consortium of private liberal arts colleges in Ohio, Pennsylvania, and West Virginia.)

Sinclair Community College: Moez Ben-Azzouz and Richard Uchida received tenure effective fall 2009. David Hare and Glen Lobo were promoted to Associate

Professor effective fall 2009.

University of Dayton: The Department of Mathematics welcomes Lynne Yengulalp to the faculty. Lynne has a PhD in set-theoretic topology from the University of Kansas. She is a 2009-2010 Project NExT Fellow. Shannon Driskell has been tenured and promoted to Associate Professor.

Wittenberg University: Kyle Burke has joined the Department of Mathematics and Computer Science as an Assistant Professor of Computer Science. The department is very pleased to welcome Kyle, fresh from finishing his doctorate at Boston University. His research has been primarily in combinatorial game theory, and he has taught several courses with a strong mathematical component. Doug Andrews, Professor of Statistics, is the new Chair of the department. Doug has been at Wittenberg since 1989, and he replaces Brian Shelburne who has served as Chair for the past 6 years.

Youngstown State University: This fall, Tom Wakefield joins the Department of Mathematics and Statistics as an Assistant Professor. Tom received his Ph.D. from Kent State University in August 2008 and spent last year in a postdoctoral position at Slippery Rock University. Tom is a 2009-2010 national Project NExT Fellow.

Coming Up in Ohio

Undergraduate Mathematics Day at the University of Dayton

Undergraduate Mathematics Day at the University of Dayton will be held on **Saturday, November 7, 2009**. We invite contributed talks from undergraduates celebrating mathematics in all forms — research, learning, teaching, history. Talks presented by high school students, graduate students and faculty are also welcome. All presenters at the conference are invited to submit their papers to our refereed, on-line proceedings of the conference. Tom Santner (The Ohio State University) will deliver an invited talk entitled "These Aren't Your Mothers' and Fathers' Experiments," and Kristen Duncan (San Diego State University) will deliver an invited talk "Keeping Up-to-Date with Bayes." There is no registration fee, and we will provide a free lunch. We can also offer limited support for student housing. Funding is generously provided by several offices at the University of Dayton and NSF-MAA RUMC grant DMS-0846477. Further details can be found at <http://academic.udayton.edu/MathEvents/Fall09/index.htm>.

OCTM Annual Conference

The Ohio Council of Teachers of Mathematics is holding their annual conference on **November 12-14, 2009**, in Cincinnati, Ohio. See www.ohioctm.org/conference_2009.htm for details.

Student Conference at Youngstown State University

The Ohio Xi Chapter of Pi Mu Epsilon at Youngstown State University is hosting its eleventh annual regional Student Paper Meeting tentatively scheduled for **February 27, 2010**. The meeting will give undergraduate students the opportunity to present results of their projects and research, and to listen to topics that are of interest to other undergraduate students in our region. Any topic in undergraduate mathematics that is likely to be of interest to other undergraduate mathematics students is appropriate, be it in history, education, research, or anything between. We are scheduling the talks for 15 minutes each with five minutes between talks. Each student giving a talk should list a faculty advisor, primarily for ease of communication. The National Science Foundation Regional Mathematics Conferences (NSF-RUMC) Grant Committee is supporting our conference this year (NSF Grant DMS-0846477). We have a limited amount of travel funding available. If you are in need of travel assistance, please contact Dr. G. Jay Kerns (gkerns@ysu.edu) as soon as possible. If you plan to attend the conference, please register (even if you are not giving a presentation). Your registration helps determine how much food is needed. Registration forms will be available in January. For more information, please see www.math.ysu.edu/pme/conferences/index.php.

Ohio Section MAA Spring Meeting

The Ohio Section of the Mathematical Association of America will hold its annual Spring meeting on **April 16-17, 2010**, at Kent State University. The Invited speakers for that meeting are: Dr. Ivars Peterson, Director of Publications for Journals and Communications for the MAA; Dr. Karen Parshall, University of Virginia; Dr. John Oprea, Cleveland State University; and Dr. Mark Miller, Marietta College. More details, including submission information for contributed talks from faculty and students, will be forthcoming in the Spring edition of this newsletter and also on the Ohio Section web site, www.maa.org/ohio.

In Memoriam

Hari K. Shankar, 78, died on June 20, 2009, in Cedar Falls, Iowa. Hari was a long-time member of the Ohio Section, and served as chair of the Program Committee in 1987-88. He joined the Mathematics faculty at Ohio University in 1963, where he taught for more than 30 years before retiring. He is survived by his wife, children, and grandchildren.

Ohio Section on the Web

Throughout this newsletter, readers have been directed to the Ohio Section web page, at www.maa.org/Ohio. This page contains much more than just information about the Fall Meeting, though. Visit the Section web page to read back issues of *Ohio Focus*, the Section history, the Section by-laws and constitution, and other announcements and events of interest to Section members.

2009-2010 Ohio Section Officers and Committees

ELECTED OFFICERS

President

Mark Miller, Marietta College
740-376-4811; millerr@marietta.edu

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Vickie Van Dresar, Ashland University
419-289-5265; vvandres@ashland.edu

Past President #2

Bill Higgins, Wittenberg University
937-327-7859, whiggins@wittenberg.edu

President-Elect

Don Hunt, Ohio Northern University
419-772-2351; d-hunt@onu.edu

Section Governor

Al Stickney, Wittenberg University
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Secretary

Mark De Saint-Rat, Miami-Middletown
513-523-8896; desainme@muohio.edu

Treasurer

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hampton@wooster.edu

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Pamela Warton, University of Findlay
419-434-4147, warton@findlay.edu

Treasurer-Elect

Brian Shelburne, Wittenberg University
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OhioMATYC Liaison to OhioMAA

Jim Anderson, University of Toledo

OhioMAA Liaison to OhioMATYC

Robert Hovis, Ohio Northern University

OMSC Liaison

Katie Cerrone, University of Akron

OCTM Liaison

Sandy Schroeder, Ohio Northern University

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John Prather, Ohio University Eastern

740-699-2498; prather@ohio.edu

Archivist

Daniel Otero, Xavier University
513-745-2012; otero@xavier.edu

COMMITTEES

* Denotes committee chair. Elected Officers and Committee Chairs are voting members of the Executive Committee. Terms expire at the end of the Spring meetings of the year listed. See the Bylaws.

Program Committee

Phil Blau, Shawnee State University (2011)

David Singer, Case Western Reserve University (2012)

CONTEAL

*John Prather, Ohio Univ Eastern (2011)

John Williams, Malone College (2011)

Sandy Schroeder, Ohio Northern Univ (2010)

Chris O'Connor, Shawnee State Univ (2011)

Susan Thompson, Otterbein College (2011)

Pam Warton, University of Findlay (2012)

Shelly McGee, University of Findlay (2012)

CONSTUM

*John Whitaker, Shawnee State (2010)

Christopher Swanson, Ashland Univ (2012)

Sarah Crown, Denison University (2010)

Mihai Caragiu, Ohio Northern Univ (2011)

Phil DeOrsey, Ohio University (2010)

Matthew Menzel, Marietta College, 2012

CONSACT

* Lew Ludwig, Denison University (2010)

Shannon Miller, Marshall University (2011)

Angela Spalsbury, Youngstown St. U. (2012)

Jon Stadler, Capital University (2012)

CONCUR

*Rob-Roy Mace, Marshall University (2010)

Charles McCracken, Sinclair CC (2010)

Allan Silberger, Cleveland State Univ (2010)

William Fuller, Ohio Northern Univ (2011)

Richard Daquilla, Muskingum College (2011)

OTHER COMMITTEES

Nominating Committee

*Bill Higgins, Wittenberg University (2012)

Tom Dence, Ashland University (2011)

Mark Smith, Miami University (2010)

Committee on Contests

David Stenson, John Carroll Univ, AMC12

Teaching Award Committee

* Vickie Van Dresar (Past President)

Mark De Saint-Rat, Miami University (Sec),

David Singer, Case-Western Reserve

University (Past Recipient 2005)

Tom Price, University of Akron (Past

Recipient 2006)

Centennial Committee

*David Kullman, Miami University

Tom Hern, Bowling Green State University

Danny Otero, Xavier University

John Zimmerman, Washington and Jefferson College

Tom Dence, Ashland University

Jon Dunlap, Wright State University – Lake

Local Arrangements for Meetings

Fall 2009: Kenyon College

Carol Schumacher,
schumacherc@kenyon.edu

Spring 2010: Kent State University

Andrew Tonge, tonge@mcs.kent.edu

Fall 2010: Ursuline College

Michelle Wiggins, mwiggins@ursuline.edu

Calendar

Ohio Section

Spring 2010 Section Meeting, April 16-17, 2010, Kent State University, Kent, OH

Fall 2010 Section Meeting, Ursuline College, dates to be announced, Cleveland, OH

Spring 2011 Section Meeting, dates to be announced, Youngstown State University, Youngstown, OH

Other

Miami University 37th Annual Conference, September 25-26, 2009, Miami University, Oxford, OH

Michigan Section MAA Meeting, October 2-3, 2009, Michigan Technological University, Houghton, MI

Indiana Section MAA Meeting, October 17, 2009, Purdue University Calumet, Hammond, IN

Eastern Section AMS Meeting, October 24-25, 2009, Pennsylvania State University, University Park, PA

AMATYC Annual Conference, November 12-15, 2009, Las Vegas, NV

Conference on Undergraduate Research in Mathematics, November 20-21, 2009, Penn State University, State College, PA

T³ International Conference, March 5-7, 2010, Atlanta, GA

International Conference on Technology in Collegiate Mathematics (ICTCM), March 11-14, 2010, Chicago, IL

Kentucky Section MAA Section Meeting, March 26-27, 2010, University of Kentucky, Lexington, KY

Southeastern Section AMS Meeting, March 27-28, 2010, University of Kentucky, Lexington, KY

Allegheny Mountain Section MAA Meeting, April 9-10, 2010, U. of Pittsburgh at Johnstown, Johnstown, PA

Indiana Section MAA Meeting, April 9-10, 2010, Franklin College, Franklin, IN

NCTM National Meeting, April 21-24, 2010, San Diego, CA

OhioMATYC Spring Meeting, April 23-24, 2010, Salt Fork State Park

Michigan Section MAA Meeting, May 7-8, 2010, Eastern Michigan University, Ypsilanti, MI

SIAM Annual Meeting, July 12-16, 2010, Pittsburgh, PA

Joint Statistical Meetings, July 31-August 5, 2010, Vancouver, British Columbia

National MAA-AMS



MathFest, August 5-6, 2010, Pittsburgh, PA

Annual Joint Meetings, January 5-8, 2011, New Orleans, LA

MathFest, August 4-6, 2011, Lexington, KY

Annual Joint Meetings, January 4-7, 2012, Boston, MA

MathFest, August 2-4, 2012, Madison, WI

Annual Joint Meetings, January 9-12, 2013, San Diego, CA

MathFest, August 5-8, 2015, Washington, D.C.

Some Links for Students (and Others)

When Will I Use Math?

www.whenwilliusemath.com/

“Advice on Giving a Good Power Point Talk,” by Joe Gallian, in *Math Horizons*, April 2006

www.d.umn.edu/~jgallian/goodPPTalk.pdf

Is Graduate School for You?

www.maa.org/students/gradschool.pdf

Thank You to the many people who contributed articles and information for this newsletter.

Barbara D'Ambrosia, Editor