



OHIO FOCUS

The Ohio Section Newsletter

Volume 7

Spring 2005

Number 6

Spring Meeting at Miami Univ. April 1-2, 2005

Aparna Higgins wins National MAA Teaching Award

On January 6, 2005, at the Joint Mathematics Meetings in Atlanta, Aparna Higgins was presented with a Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics. On January 7, Aparna gave a talk on "Teaching in the mathematics classroom and beyond" at the MAA special session of Haimo Award recipients. Jerry Alexanderson and Deborah Hughes-Hallett also received Haimo Awards this year. The following is taken from the program of prizes and awards distributed at the awards ceremonies.

Citation: Aparna Higgins is one of the dynamos of the U.S. mathematical community. Her ease with and genuine connection to students is remarkable; her dedication to teaching and mentoring is recognized by colleagues near and far. At the University of Dayton, where she has been for 20 years, she has developed several new courses, and she is fearless to incorporate new pedagogical strategies into the classroom. She teaches with passion and high expectations, and her students respond, acknowledging her

nurturing interest that extends far beyond classroom and graduation. Her tireless service to the Honors program (directing research of 11 honors students) and organization of undergraduate mathematics conferences has had a profound impact. In the larger mathematical community, she has given generous time in serving on the MAA Student Chapters Committee, the MAA Subcommittee for Research by Undergraduates, and in co-directing Project NExT.

Aparna's own web page reveals her not-so-well-kept secret "I love mathematics, and I love teaching. I enjoy reading mathematics and reading about it, I enjoy discussing mathematical things even jokes, and I enjoy spending time with mathematicians and with students who are interested in mathematics." This love of all things mathematical and the desire to encourage others fuels her charisma, energy, and enthusiasm. Her joy is



Aparna is pictured with Fred Rickey, the first Ohio Haimo award winner.

Come to Oxford!

We hope to see you and your students at the Spring Meeting in Oxford. Invited speakers include Dan Maki, John Holcomb, Chris Swanson, and Mark Smith. Inside you'll find information about the program and other arrangements for the meeting.

New Newsletter Editor

Our three-year term as co-editors of the Ohio Section newsletter ends with this issue. Section President Mark Smith has appointed Carl Spitznagel as the new editor. The volume number for his term will be 8.

Please send copy for the Fall issue to Carl. See page 2 for details.

The deadline for the Fall 2005 issue is September 1, 2005.

We have enjoyed our term as editors and hope Carl finds satisfaction in the job as well.

Bill Higgins
Brian Shelburne

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Section Governor's Report

Well, here I am snowed in and having returned from a warmer, but rainy, Atlanta. Time for another report. A good time to do that.

The Board of Governors met all day on Tuesday, January 4, 2005 just prior to the Atlanta joint meetings. This is my third BOG meeting, with three more to go. By now things are becoming more routine, so this report will be easier. I also attended the Section Officer's Meeting on the following day along with Ohio Section officers Mark Smith and Bill Friel. That one only lasted 2.5 hours.

Some things were acted upon: A joint committee was formed with NCTM to "identify and articulate" items of mutual concern. Appointment of editors, etc.

Some reports were heard. For example one that caught my eye was about the Dolciani Mathematical Expositions series published by the MAA. The next volume is *Conics* by Keith Kendig. The reason that caught my eye is that conics, and analytic geometry in general, are getting squeezed out of our curriculum. I noticed that the conics are now down to one section in our calculus book, books which used to be titled *Calculus and Analytic Geometry*. At one time I had hoped that a thorough treatment of conics would be in the 'capstone' course. Now in linear algebra when I want to do rotations to standardize conics as an intro to eigenvalues and diagonalization, I have to do it all.

The MAA under Treasurer John Kenelly continues to simplify financial reports. Financial matters are in good shape. I will spare you the details, but I can share any that you might want to know about.

Attendance at meetings has been increasing, but the increase is not monotone. The Providence Mathfest had 1031 registered, up from 717 in 1997. The next meeting is in Albuquerque, August 4-6. A great excuse for a New Mexico vacation! The next annual joint meetings are in San Antonio next January. Attendance at January meetings is closer to 5000.

This year I also chaired a couple of MAA general contributed paper sessions. These were under the leadership of Danny Otero, Xavier U., this year. That seems like a thankless, but necessary, job. Actually it was much more interesting than I expected. I would have missed a couple of interesting talks if I hadn't been there. It is so hard to pick short talks from the program that

you want to attend. You always miss some that you wished you had heard. Sometimes you should just go. There were over 1500 short talks this year. That is astounding.

That got me to thinking, maybe I should share with you what I did at the meetings. Maybe more will think to go. I arrived Monday and left Saturday. That seems like a long time, but I was busy, and also ready to get home. We have already covered the first 1.5 days in meetings, and parts of two more days chairing contributed paper sessions. In fact I was only able to break away for half a day to sightsee. In this case I went to the CNN building for the tour and the walk in town, one time when it wasn't raining.

I was only able to attend one large lecture, the one by Daubechies on wavelets. The hall is huge, and was filled for this one. Normally I spend some time in the exhibit hall, but again not so much this time. There are lots more than just book exhibits. I was sitting in one booth waiting for a presentation on MathML (which still hasn't really fulfilled its promise--I keep waiting) when the fellow behind me asked how things were in Bowling Green. I had no idea who he was, but I will talk to anyone. Turns out that he had been in an NSF sponsored summer institute at BGSU in the 60s (before my time!), and gone on to get a Ph D. at Kentucky and was now at a southern university. He asked about Bill Kirby who had taken the time to counsel him about going on, and I told him I would pass his greetings on.

This turns out to be a common occurrence for me, meeting 'old' BG people at the meetings, and new ones, too. It is amazing how many we have out there, and I am sure your school does too. In fact I spend a lot of time talking to them in the hallways and such.

Some were undergrads who went on to grad school elsewhere. Wednesday I went to the talk of a young woman who graduated from BGSU four years ago and is now finishing her Ph.D. at Virginia and looking for a job. Some are former faculty from BGSU, like Curt Bennett and Fred Rickey.

A number of our M. S. and Ph. D. graduates are regular attendees at the meetings. And I usually bump into several each time. And we had several grad students there too, some looking for jobs. It is very common these days to see a BG table in the message area where people congregate between

sessions. This year we even had a BG dinner Friday evening. It was modest but we got to meet with some recent (and not so recent) grads, faculty (both current and from the past) and current students.

In fact that is an activity which takes up a lot of time, eating. That is when you get a lot of chatting done, with people you know and ones you have just met. For example one evening a pickup group was quickly formed consisting of Leo and Susan Schneider, Bill Friel, Don Bonar (all Ohio people) and Andy Long, Cliff's son who is now at Northern Kentucky. I always try to get recommendations for restaurants from Robert Smith of Miami. He has it all scoped out.

A nice feature of the last two meetings was that the convention was close to a food

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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 sent using labels provided by the MAA.

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Deadline for the next newsletter is
September 1, 2005

Email copy is preferred. Early submission is appreciated.

Please send copy to the new newsletter editor:

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to the Section Webmaster, Tom
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web.

court, which made getting lunch (and even breakfast) quick, easy, and cheap. Again you end up chatting with people.

Meeting with people, formally and informally, is mostly what you do. That is why it is important that even at section meetings that enough time is built in for interaction. The message area is a great place to meet people.

I also notice another thing this time. I saw a seemingly large number of older mathematicians at the meeting. Some had to be in their 80s or more, and were having a hard time getting around (Atlanta has a lot of steps), really tottering. I was impressed. The meetings were so much a part of their lives, they just had to come back and partake. Some were famous (I saw Arnold Ross of OSU once when he was easily in his 90s), some not. I am not sure that I will be one of those.

Thomas Hern
Section Governor
hern@wcnet.org
Jaunary, 2005

Report of the Nominating Committee

At the summer meeting of the MAA Board of Governors the new Ohio Section Bylaws were approved. As many of you know, these new bylaws require that the position of Secretary-Treasurer be split into two positions. Also this summer the Section Executive Committee created a timetable for implementing the new bylaws. According to this timetable our new "Secretary-Elect" should begin office in May 2005 and become "Secretary" in May 2006. As a result, in addition to electing a President-Elect and someone to serve on the Program Committee for three years, the Section needs to select a Secretary-Elect. These elections will take place at the business meeting, Friday evening, April 1, 2005, after the banquet at Miami University. As the nominating committee had not finished its work at the newsletter deadline, the nominations for the above positions are not announced in this newsletter. Section members should check the Section website at <http://www.math.uakron.edu/ohiomaa/> for a listing of the slate of candidates. Nominations may also be made from the floor at the time of the elections.

Harold Putt, Chair
Judy Palagallo
Tom Gantner

President's Message

I hope that all is well with you, and that you've made it through our winter storms with a smile still on your face. There could be more to come, so keep smiling. I'm focusing this, my second and last, presidential message mostly on the personal side.

Two years ago, when Judy Palagallo called me to explore the possibility that I would be President-Elect of the Section, I was scared. I mean really scared! I had attended some Section Meetings and was involved a bit in Ohio Project NExT, but I hadn't served on any Section committees and I really didn't have a clue how the Section operated behind the scenes. But it was such an honor that she called and so I eked out a "Yes" to being willing to serve the Section. But, even before I hung up the phone, I was thinking, "What am I going to talk about during my retiring Presidential Address (i.e. Math Talk) at the Spring 2005 Meeting?" This was the focal point of my fright. It hit me a couple of days later: I'll get a student to do something that's mathematically interesting and then steal his/her stuff - and so I did. His name is Mark Walters. I hope that you'll come to the Spring Meeting, here in Oxford, and hear what Mark did (he'll be in the audience to correct and heckle me).

Well, it turns out that it's FUN to be President. A lot of the fun is because everyone else does all the work, and you still get a free gavel with your name engraved on it. I just keep asking all the great people we have in the Section, what's the President supposed to do now, and they tell me. On occasion, I do think about the Law of Trichotomy: given any real number, it's either positive, zero, or negative. But I restate it as the Law of Section Presidents: given any Section President, his/her con-

tribution will be either positive, zero, or negative. My hope is to be viewed by future Section historians as simply "a nice non-negative guy." Okay, maybe not a great legacy, but

Now, check this out. The national MAA reimburses the Section President up to \$600 to go to MathFest. What a deal! Dwight, enjoy the trip to New Mexico this coming summer. And you get to go to the Section Officers Meeting at the national MAA meetings in January, where you sit in a really big room with all the important people in the MAA - and you're allowed to act like you're important too. It was fun in Atlanta!

Indeed, it has been fun this past year as President, and I look forward to my years as Past-President #1, #2, #3, etc. We'll be in the very good and capable hands of Dwight Olson, as he becomes our new President at the conclusion of the Spring Meeting. Please consider getting involved in the leadership of our Section - you'll get to work with some truly wonderful people.

Shifting gears (not many people actually do that anymore, do they?), I had a terrific time at our Fall Meeting at John Carroll University. It was my first time on the JCU campus - wow, what a nice building. I thank everyone who was involved in organizing and holding the meeting, and I especially thank Barbara D'Ambrosia who was our local arrangements person at JCU. In addition to all the mathematics that went on there, I met lots of old friends and made some new ones too. And I got a personal tour around some of the JCU campus (Thanks, Leo!).

I hope to see you at the Spring Meeting!

Mark A. Smith

Miami University Fall Conference and Pi Mu Epsilon Student Conference

The Thirty-third Annual Fall Conference will be held on September 30 - October 1, 2005 in Oxford, Ohio. This year's theme will be "Mathematics and Biology", with featured speaker Avner Friedman.

Authors wishing to contribute a paper consistent with the theme of the Conference should submit an abstract by September 1, 2005 to: Mathematics and Biology Conference, Department of mathematics and statistics, Miami University, Oxford, Ohio 45056, (513) 529-5818; Fax: (513) 529-1493; or email the director Steve Wright (wrightse@muohio.edu) or check the WEBpage: www.miami.muohio.edu/Mathstat

The Ohio Delta Chapter of Pi Mu Epsilon will hold its thirty-second annual Student Conference on September 30, 2005. Undergraduate and graduate students are invited to contribute 15 or 30-minute papers on any mathematical science topic, and should contact Milt Cox, Department of Mathematics and Statistics, Miami University, Oxford, Ohio 45056, (513) 529-6648 or email coxmd@muohio.edu

2004 - 2005 Ohio Section Officers and Committees

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COMMITTEES

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

Program Committee
*Vickie Van Dresar, Ashland Univ 2005
Bill Higgins, Wittenberg Univ. 2006
Barbara D'Ambrosia,
John Carroll University 2007

Committee on Curriculum (CONCUR)
*Michelle Wiggins,
Ursuline College 2006
Roger Marty,
Cleveland State Univ. 2006
Cathy Stoffer,
Ashland University 2005

Committee on Section Activities (CONSACT)
* Lisa Rome, College of Mt. St. Joseph 2005
Danny Otero, Xavier University 2007
Juan Bes, Bowling Green St. Univ. 2007

Committee on Student Members (CONSTUM)
*Darren Wick, Ashland Univ. 2007
Christopher Swanson, Ashland Univ. 2007
Jeffrey Adler, Univ of Akron 2005
Mihai Caragui, Ohio Northern Univ. 2005
Judith Holdener, Kenyon College 2006

Committee on Teacher Education and Certification/Licensure (CONTEAL)
*David Kullman, Miami Univ 2006
Susan Thompson, Otterbein College 2005
John Prather, OSU - Eastern 2005
Ann Ritchey, Mt. Union College 2005

OTHER COMMITTEES

Nominating Committee
*Harold Putt, Ohio Northern Univ. 2007
Tom Gantner, Univ. of Dayton 2006
Judith Palagallo, Univ. of Akron 2005

Committee on Contests
David Stenson, John Carroll AMC12

Teaching Award Committee
Dale Mugler, Univ of Akron (Past Pres.)
J. William Friel, Dayton (Sec./Treas.)
Tom Dence, Ashland Univ.
Jerry Moreno, John Carroll Univ.

Local arrangements for meetings:

Spring 2005, Miami University, Oxford
Mark de Saint-Rat,
desainme@muohio.edu

Fall 2005, Ashland University
Cathy Stoffer, cstoffer@ashland.edu

*For latest additions see the MAA Ohio Section's web site at
<http://www.maa.org/Ohio>*

Aparna's Award

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contagious in the classroom, at MAA student chapter meetings, in her REU summer programs, and with Project NExT Fellows.

Aparna has received two teaching awards from the University of Dayton and the 1995 MAA Ohio Section award. She has been a key person responsible for the strong interest in getting undergraduates involved in research, both by directing REU programs at the University of Dayton, and in giving frequent minicourses at AMS-MAA joint meetings and for Project NExT on how to engage undergraduate students in mathematics research.

Biographical Note: Teaching has always been part of the professional and personal lives of Aparna Higgins. Her parents were teachers, her husband teaches mathematics, and her mother-in-law was a teacher. Aparna received her B.Sc. in mathematics from the University of Bombay, India, in 1978, and her M.S.(1980) and Ph.D. (1983) degrees from the University of Notre Dame. She is a Professor at the University of Dayton, Ohio, where she has taught since 1984, except for three interesting leaves spent at the Naval Postgraduate School in Monterey, California, and the United States Military Academy in West Point, New York, where she continued to learn

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Additional Spring Meeting Information

Registration

Online registration is preferred; see the meeting web page at www.maa.org/Ohio. Deadline for online registration is **March 25, 2005**.

On-site registration is always available, but last minute banquet tickets cannot be guaranteed. Early registration helps those making arrangements and is always appreciated. On-site registration will take place in Bachelor Hall on Friday afternoon and on Saturday morning.

You may also register by sending the following information: name, affiliation, address, phone, e-mail address (if any), type of position, and banquet information. Send with check, payable to Ohio Section MAA, for applicable fees [registration fee (\$20 full time, \$10 retired or part time, no fee for students), banquet (\$20)] to Linda Ferriell, Mathematics Dept., 123 Bachelor Hall, Miami University, Oxford, Ohio 45056, Dept. Phone 513-529-5818, FAX 513-529-1493. You may contact Linda at ferrielm@muohio.edu and Mark de Saint-Rat at desainme@muohio.edu. Fax or email registrations would be pending upon receipt of registration fees.

Banquet

The Friday evening banquet will be held in the Heritage Room of the Shriver Center. Cost of the banquet is \$20 per person. The buffet consists of: Entrees- Pasta with Garden Vegetable or Marinara Sauce,

Carved Roast Beef and Carved Roast Turkey; Sides- California Blend, Sugar Snap Peas with Mushrooms, Whipped Potatoes with Gravy, and Wild Rice; Salads- Mixed Greens with Choice of Dressing and Mixed Fruit Salad; Breads - European-Style Dinner Rolls and Cheese Braid; Desserts- Black Forest Torte and Carrot Cake.

Registration deadline is **March 25, 2005**. Space is limited. There may be additional banquet tickets available on site, but this cannot be guaranteed.

* Note: Simultaneous to the Buffet Banquet, there will be a **Student Pizza Party** (at no charge) held in the Bachelor Hall Courtyard. The party is scheduled to allow those in attendance to join in dessert and the after dinner program in the Heritage Room of the Shriver Center.

Book Exhibits

Several commercial publishers will exhibit their wares in 118 & 120 Bachelor Hall on Friday and Saturday. Please encourage any book reps you meet to contact Mark de Saint-Rat, desainme@muohio.edu or 513-727-3331, to take advantage of this opportunity to display their wares this spring for a gathering of mathematics faculty from around Ohio.

There will also be MAA books on display with an opportunity to buy books at a discount. Not only would you save money, but the Section would earn some too!

Ohio Project NExT

Ohio Project NExT is a program to help young faculty members network with colleagues, to share ideas and experiences that promote professional growth, and to encourage newer faculty to become involved in the Ohio Section.

On Thursday evening, March 31st, preceding the Ohio Section Spring Meeting, members of Ohio Project NExT will gather for a banquet - an opportunity to meet new and old friends. After the banquet, the NExTers will spend an hour discussing a topic that will be advertised in advance. Then, on Friday morning, April 1st, our NExT Workshop will be held. The workshop will feature two major speakers, along with two or three contributed talks by NExT members. Prior to last Fall's meeting, the NExT workshop at John Carroll University featured James Sellers (University of Pennsylvania), Stephanie Edwards (University of Dayton), Darren Parker (University of Dayton), and Thomas Hern and David Meel (Bowling Green State University).

Ohio Project NExT is open to anyone who is in his/her first five years of teaching in the Ohio Section. If you're in this group, please consider joining us this spring for our NExT Banquet and Workshop, as well as the Ohio Section Meeting. Contact Dale Mugler <dmugler@uakron.edu> for membership information and details.

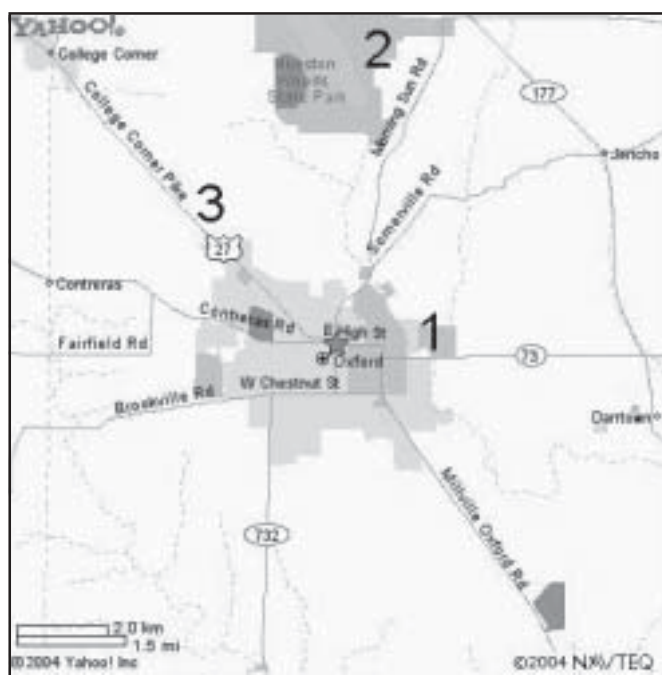
Ohio Project NExT is directed by Dave Sobecki (Miami University).

Dale Mugler

Aparna's Award

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about the teaching of mathematics. Aparna sees in-class teaching as only one part of introducing students to the profession of mathematics. She has encouraged students to do mathematics outside of class as recreation or as research, and she has created events for students to present student-generated mathematics. Her greatest professional satisfaction has come from directing students in undergraduate research. Her most enjoyable service has been on the MAA Committee on Student Chapters and as a co-director of Project NExT. Both those activities have put her in touch with about a thousand people all eager to talk about her favorite subject -- teaching undergraduate mathematics.



Oxford, Ohio

The local map at left gives the location of three of the hotels.

1. The Marcum Center, 1/2 mi. from Bachelor Hall.
2. The Lodge in Hueston Woods.
3. The Amerihost.

The Manchester Inn is 22 miles to the east of Oxford in Middletown.

The Hamiltonian Hotel is 13 miles southeast of Oxford in Hamilton, Ohio.

Campus Notes

The University of Dayton: The University of Dayton held its annual Math Event on November 6, 2004. The day kicked off with Conversations among Women in Mathematics, whose participants consisted of high school and college students and teachers and alums of the Department of Mathematics (mostly female). Conversations consisted of a panel discussion on issues concerning women in mathematics and parallel hands-on mathematics workshops and ended with a sit-down luncheon.

The day continued with the 5th Annual Kenneth C. Schraut Lecture, delivered by Jane Pendergast, a biostatistician from the University of Iowa (and an alumna of our department). The events concluded with the 21st Biennial Alumni Seminar, an opportunity for students to network with alums about careers in mathematics.

This fall's Math Event will be Undergraduate Mathematics Day, an undergraduate conference celebrating undergraduate mathematics in all forms -- research, learning, teaching and history. Undergraduate Mathematics Day will be held in early November. Information on our department's Math Events can be found at <http://academic.udayton.edu/MathEvents/>

Wiebke Diestelkamp has been approved for tenure and promotion to Associate Professor, and Qin Sheng has been approved for tenure (effective with the start of the 2005-2006 academic year).

John Carroll University: Nancy Campbell has resigned from the Department of Mathematics and Computer Science at John Carroll University. She is currently working as an actuary in Kansas City.

Bowling Green State University: Very sadly, Professor Humphrey Fong passed away on January 16, 2005. He was only 62, and had 3 children with his wife Maria: Crystal (23), Tiffany (20), and Daniel (17). We wish them peace.

John Chen, Corneliu Hoffman, and Tong Sun were tenured and promoted to Associate Professor. We are excited to have Professor N. Balakrishnan (McMaster University, Canada) as our Distinguished Visiting Lukacs Professor. We are enjoying for yet another semester the visit of Professor Dick Little (Baldwin Wallace, Ohio). We also received nice visits by Dr. J. A. Conejero (Universidad Politecnica de Valencia) and by Dr. Abdul Sami (Imperial College, London), soon to return home.

Ashland University: In April, Vickie Van Dresar received the 2004 Ashland University Taylor Excellence in Teaching Award. Vickie was also named Co-Director of Ashland University's Introduction to University Life courses. In May, Cathy Stoffer received a Ph.D. in Mathematics Education from Kent State University. In the fall, retired mathematics faculty Robert Wendling was selected for induction in the Great Lakes Valley Conference Hall of Fame in spring 2005 for his service as faculty athletic representative from 1967 to 1991. In December, Gordon Swain and Iyad Ajwa were granted Senior Faculty Study Leaves for the Spring 2006 semester. In January, the department received confirmation that Gordon Swain will be promoted to Professor, Cathy Stoffer will be promoted to Associate Professor, and Christopher Swanson will be granted tenure and promoted to Associate Professor, all effective the beginning of the 2005-06 academic year. In January, Christopher Swanson received an Ashland University Academic Mentor Award.

Ohio Section MAA Summer Short Course - 2005 Making the Math Visible: A Workshop Exploring Geometry and its Connections to Algebra, Trigonometry and Art

This year, the summer short course, titled Making the Math Visible: A Workshop Exploring Geometry and its Connections to Algebra, Trigonometry and Art, will be held at John Carroll University (in Cleveland) on June 27-29, 2005.



The workshop leader, **Sr. Barbara Reynolds**, is a Professor of Mathematics and Computer Science at Cardinal Stritch University in Milwaukee. Sr. Barbara, who calls herself "an artist whose palette is mathematics," is coauthor of a new text, *College Geometry using The Geometer's Sketchpad*, which is due to be released at the end of the summer. She has also

developed a course in Visual Mathematics, in conjunction with art faculty at her home institution, and will draw on both of these experiences in presenting the workshop.

Since the focus of the short course will be on using geometry to gain visual insight into trigonometric and algebraic relationships, as well as on the geometric foundations for various topics in art, the course should appeal to mathematics teachers and professors at a variety of levels. Prior experience with Geometer's Sketchpad is not necessary.

Registration cost for the course is \$150, with room and board additional. For further information and to register, please visit <http://www.jcu.edu/math/shortcourse/>.

Lisa Rome, CONSACT

Denison University: The Mathematics and Computer Science Department at Denison University would like to congratulate Dr. R. Matthew Kretchmar on his tenure promotion to Associate Professor.

On Wednesday, April 20, 2005 at 730 PM, Denison University will host speaker Mel Slugbate, brother-in-law to Colin Adams of Williams College, of Slugbate and Mossbutter Real Estate. Mel will deliver his motivating talk, "Real Estate in Hyperbolic Space Investment Opportunities for the New Millennium." This presentation is generously funded by the Gordon Family Speaker Fund. More information can be found at <http://www.denison.edu/mathsci/events/index.html> or e-mail ludwigl@denison.edu.

Denison University will host the 20th Summer Conference on Topology and Its Applications, July 10-13, 2005. An additional workshop, Computational Topology, will occur on July 14, 2005. More information can be found at <http://www.denison.edu/mathsci/sumtopo2005> or e-mail SumTopo2005@denison.edu.

Cleveland State University: Dr. Sally Shao is working in Asia in Spring 2005 during her professional leave. Dr. Barbara Margolius is now the director of the CSU Honors Program.



James L. Smith
1929-2004

Mathematics students and teachers at all levels lost a very dear friend and valued colleague when

James L. Smith passed away on October 25, 2004.

Jim's service to mathematics teachers and students in Ohio and well beyond was focused on his position in the Muskingum College Mathematics Department from 1963 until 1994. He earned his B.A. in mathematics at the University of Louisville in 1951 and immediately joined the United States Marine Corps and served as an officer until 1954. "Semper Fidelis" (Always Faithful) is the motto of the USMC and Jim's life exemplified that motto.

In May 2004, he celebrated his 50th wedding anniversary with his bride, Anne, their four children and grandchildren. Later that summer he was honored as a 50-year member of the MAA. He served many ways in the Presbyterian Church in New Concord and nationally, and was a life long member of the Lions Club International.

Through his service, Jim earned many honors including a Fulbright professorship at The University of Malawi, Africa (1979-80), being elected National President of Kappa Mu Epsilon (1985-89) and President of The Ohio Section of MAA (1969-70).

His graduate studies included an M.S. in mathematics at the University of Pittsburgh and a doctorate in mathematics education at Oklahoma State University (1963), with additional sabbatical and visiting professorship years at Washington State University (1967-68), University of New Hampshire (1971-72), and The Ohio State University (1987-88).

He made over 100 presentations at OCTM, NCTM, the Ohio Section of MAA, and MAA. His presentations were memorable for their content and their humor.

Following his nominal retirement from Muskingum in 1994, Jim and Anne served their church as Volunteers in Mission in Egypt (1995-96), and at the McCurdy School (for American Indian children) in

Espanola, N.M. (1997-2004). Within the year before his passing Jim attended meetings of The New Mexico CTM, The Southwestern Section of MAA, the Summer Math Fest of MAA, and the October OCTM meeting in Akron where he enthusiastically greeted long time friends.

Always faithful, always a teacher and a student, always a friend. To know Jim Smith was a privilege and an honor.

[Memorial Contributions may be made to McCurdy School, 261 McCurdy Rd., Espanola NM 87532]

PMET Workshops

A growing set of national reports calls for better preparation of the nation's mathematics teachers by mathematics faculty. To help meet this need, the Mathematical Association of America (MAA) has a program: Preparing Mathematicians to Educate Teachers (PMET).

The central activity of PMET is an extensive series of workshops for college and university faculty. Each workshop will focus on the preparation of teachers in elementary, middle or secondary school mathematics. Participants will observe demonstration classes, providing an opportunity to learn about the mathematical thinking processes of students preparing for careers in teaching. Participants will also have opportunities to share ideas, discuss and learn about appropriate content and ways of teaching prospective teachers more effectively.

The workshops have been very successful during these first two years of the program. For 2005 the PMET Workshop Program will have a total of 12 workshops: eight (8) new workshops and four (4) continuations. In Ohio, Kent State is repeating its elementary level workshop June 12-24, 2005, with a special focus on geometry and rational numbers. Directors are Michael Battista and Olaf Stackelberg. And Bowling Green is having the second summer of its middle school workshop July 10-17, 2005. Directors are Thomas Hern and Barbara Moses.

For more information and online application go to www.maa.org/pmet/. Deadline is April 11, 2005.

Tom Hern

Mathematics Awareness Month April 2005

Go to www.mathaware.org for resources to celebrate the theme of Mathematics and the Cosmos.



Phil Huneke

Phil Huneke died Friday October 1, 2004 of cancer. Phil was a creative mathematician, a dedicated teacher and superb colleague.

He was a member of the Ohio State University mathematics department for 35 years until his retirement in April 2004 and subsequent appointment as Emeritus Professor.

After receiving his Ph.D. from Wesleyan University in 1967, Phil accepted a two year appointment as Dunham Jackson Research Instructor at the University of Minnesota. He spent the remainder of his career at Ohio State, serving as Vice Chair of Mathematics from 1979 to 1995. In 1999 he received the Department of Mathematics Teaching and Service Award and, in 2003, the Roselene Sedgwick Faculty Service Award for outstanding service to Arts and Sciences undergraduates.

Phil was active in the Ohio Section and was in charge of local arrangements for the Spring 2003 Meeting held at the O.S.U.

Phil was a mathematician who solved concrete problems that required both insight and careful attention to detail. He is best known for solving the Isbell problem by constructing an example of two commuting self-maps of the closed unit interval that fail to have a common fixed point, and for the projective analogue of Kuratowski's theorem by determining the complete list of 103 graphs that are the topological obstructions to embedding a finite graph in the real projective plane.

He was also a splendid teacher of mathematics. Phil directed or co-directed the doctoral dissertations of Chin San Wang (1975), Richard Decker (1978), Dan Archdeacon (1980), Bruce Burdick (1985), Joe Fiedler (1988) and Amy Hlavacek (1997). During the period 1989 to 1995 he was deeply involved with the Young Scholars Project, a pre-college summer program for minority students. Throughout his career Phil contributed greatly to curriculum development, experimented with new teaching methods and advocated for tutoring, mentoring and other support services for undergraduates. Phil was devoted to his family and is survived by his wife Barbara, children Charlie, Heidi, Helen and Harriet, and eight grandchildren.

*Adapted by the editors
from the OSU web page.*

Spring Meeting Program

Friday, April 1, 2005

Noon-4:30 Registration 115 Bachelor Hall
Book exhibits

Noon-1:20 Student problem-solving team competition
Shriver Center Multi-Purpose Room C

12:15-1:15 Committee Meetings: Bachelor Hall
CONCUR 122 C, CONSAC 122 D,
CONTEAL 343. CONSTUM Multi-Purpose
Room C in Shriver Center

1:30-1:45 Welcome & announcements

1:45-2:45 **Invited Address:** “The Probability an Amazing
Card Trick is Dull”
Christopher N. Swanson,
Ashland University

2:45-3:10 Break & refreshments

3:10-4:10 **Invited Address:** “Understanding Lies, Damned
Lies, and Statistics: A Look at Why So Many
People Find Statistics Frustrating”
John P. Holcomb, Cleveland State University

4:15-6:30 **Contributed Paper Sessions**

4:15-6:15 Executive Committee Meeting

6:30-7:00 Social Time with Cash Bar

6:45-8:00 Student pizza party

7:00-8:15 Banquet

8:15-9:00 **After-Dinner Talk:** “The Discrete Mathematics
of a Card Trick” Christopher N. Swanson,
Ashland University

9:00- Business meeting and presentation of
teaching award

Saturday, April 2, 2005

8:00-10:30 Registration 115 Bachelor Hall
Book exhibits

8:00-8:50 Coffee, etc.
Meeting of Student Leaders 122 C Bachelor Hall

8:05-8:45 Executive Committee Meeting continuation
(if necessary)
Department Liaisons Meeting

8:50-8:55 Announcements

8:55-9:55 **Retiring President’s Address:** “Arc Length and
Surface Area – What’s Up with Calculus Text
books?”
Mark A. Smith, Miami University

9:55-10:20 Break and Refreshments

10:20-11:55 **Contributed Paper Sessions**

12:00-1:00 **Invited Address:** “What are Hidden Markov
Models and Who Cares?”
Daniel Maki, Indiana University

1:00 Closing Remarks

Check the web page for updates, online registration, and paper submission (www.maa.org/Ohio).

Christopher N. Swanson

“The Probability an Amazing Card Trick is Dull”

The Ashland University student chapter of the MAA holds biweekly meetings. In Fall 2002, I told students that I would perform a new mathematical card trick at each of these meetings. While performing one of these card tricks, an unlikely event occurred that made the card trick quite dull. In this talk, we will find the probability that this unlikely event occurs after discussing the more general problem of counting permutations with restricted positions.

“The Discrete Mathematics of a Card Trick”

While attending the Project NExT activities at the 2000 Joint Meetings, I met Colm Mulcahy of Spelman College who was performing a card trick with my fellow Brown Dot Derek Smith of Lafayette College. I selected 5 cards from a standard deck. Colm looked at them, returned one card to me, and laid down the remaining four cards with their faces showing. Derek would tell me the card I was holding. During MathFest 2000, Colm presented how to perform this card trick, and he has also written a paper

on it that appeared in the February 2003 Math Horizons. I will share the secrets of this card trick with you, as well as review some basic concepts of discrete mathematics that explain why it works.

Christopher N. Swanson is an Assistant Professor of Mathematics in his 6th year of teaching at Ashland University. He received his B.S. from Denison University in 1994 and his Ph.D. from the University of Michigan (GO BLUE!) in 1999 under the direction of Thomas F. Storer. His research interests are combinatorics and probability. He enjoys doing research with undergraduates and has directed four Ashland University students in the completion of their honors theses.

Chris is a national Project NExT Fellow (Brown dot) and is Program Co-chair of Ohio NExT. He served on CONCUR for two years and is currently a member of CONSTUM. He initiated the founding of the Ohio Rho chapter of Pi Mu Epsilon at Ashland University and introduced its students to the Putnam Mathematical Competition. He creates solutions for the OCTM contest which are published on the

OCTM web site. He has delivered 11 scholarly talks since returning to the Ohio Section, including six at Ohio Section meetings. He hopes you will enjoy his 7th and 8th Ohio Section talks as much as he will.

Chris and his wife Linda (also a graduate of Denison University) celebrated their 10th anniversary this year by attending the Rose Bowl. Their son Parker is 5 years old and will pay his opponents large sums of money for the yellow Monopoly properties. Their daughter Paige is 3 years old and enjoys doing jigsaw puzzles on either parent’s lap when she isn’t pretending to be Fluffy the Cat.

John P. Holcomb

“Understanding Lies, Damned Lies, and Statistics: A Look at Why So Many People Find Statistics Frustrating”

This expository talk will discuss some of the issues that cause the field of statistics to invoke such strong feelings from citizens, students, and even mathematicians. A main point will examine the differences between experiments and observational

studies with examples of the role of confounding and lurking variables. A second theme will point to the main ways in which statistics differs from mathematics. Lastly, I will plea for peace arguing that mathematics programs need to develop and inspire students to study statistics as much as statistics programs need students to study as much mathematics as possible.

John Holcomb majored in mathematics at St. Bonaventure University and then continued at the State University of New York at Albany (SUNY). He began studying pure mathematics, and after four years finally saw the light and began concentrating on statistics. He spent the first five years of his career at Youngstown State University where he learned as much as possible from the outstanding faculty and program there. Now at Cleveland State University, Dr. Holcomb devotes himself to teaching and research as an applied statistician. A National Project NExT Fellow, he was a co-director of Ohio NExT's program for three years. He is currently president of the Cleveland Chapter of the American Statistical Association. He has also served as an associate editor for the Journal of Statistics Education for six years, a member of the Advisory Board for the Assessment Resource Tools for Improving Statistical Thinking (ARTIST) project, and a Research Advisory Board member for the Consortium for the Advancement for Undergraduate Statistics Education (CAUSE). Named a Carnegie Scholar in 2000, Dr. Holcomb received the Waller Education Award from the ASA Section on Statistical Education in 2003 for outstanding teaching of introductory statistics by a junior faculty member.

Mark A. Smith

“Arc Length and Surface Area – What’s Up with Calculus Textbooks?”

For over thirty years, I taught arc length and surface area in calculus classes without much thought to why we naturally connect dots in one case and do some funny tangential thing in the other case. Calculating arc length and surface area are really the same problem, just in different dimensions. A couple of years ago, I posed this curiosity to an undergraduate student (Mark T. Walters), who investigated the circumstance under my supervision as a Dean’s Scholar here at Miami University. In this talk, I shall report Mark’s findings (so we’ll review and do a lot of calculus),

as well as some of his adventures as he traveled to present these findings. Hopefully, this will be a fun talk for mathematicians of all ages and experience in the audience.

Mark A. Smith received his Ph.D. in Mathematics at the University of Illinois under the direction of Mahlon M. Day. His research area is the geometry of Banach spaces. His original work in this area concerned rotundity and smoothness properties of general Banach spaces. He then focused on the geometry and extreme point structure of various classes of function spaces and their duals. He has published 23 research journal publications. Mark has spent most of his career teaching at Miami University where he is currently serving as the chair in addition to his teaching duties. He has taught a variety of undergraduate and graduate courses ranging from business mathematics and precalculus to measure theory and functional analysis.

Mark has served on the national MAA Committee on Industrial and Government Mathematicians. He served as co-coordinator of Ohio Project NExT from 2001 to 2004. He was President-Elect of the Ohio Section of the MAA in 2003-2004 and is currently President of the Section.

Mark has been married to his high school sweetheart, Linda, for 35 years. They have two children, Matt, 31, and Susan, 29. Matt is a single businessman living in downtown Chicago. Susan lives and works in Cincinnati while her husband, Barry, goes to University of Cincinnati law school. All three of the “kids” are Miami University grads. Linda and Mark live on fairway #5 at Walden Ponds Golf Club just north of Hamilton, Ohio, about 15 miles from Oxford.

Daniel Maki

“What are Hidden Markov Models and Who Cares?”

Hidden Markov Models have become an important tool for both speech recognition and in bioinformatics. In this talk we give the basics of Markov Chains, the basics of



Hidden Markov Models, and we give examples of how they are being used in speech research and in genetics.

Daniel P. Maki received his Ph.D. in Mathematics from the University of Michigan. He has been a visiting professor at the University of Michigan and Claremont Graduate School. He received a Fulbright Research Fellow in 1968 at the University of Helsinki. He has received several awards for teaching, including the Presidential Award for Excellence in Teaching in 2004. He is currently professor and has served as chair at Indiana University where he most enjoys teaching mathematical modeling. His research interests are mathematical modeling with special emphasis on digital signal processing and mathematical aspects of simulation. Daniel has participated in over one hundred interdisciplinary doctoral studies at Indiana University and has received numerous grants from NSF and NIH. He has been an invited speaker on more than sixty occasions, giving presentations and workshops at universities and national meetings.

Additional meeting information on pages 5, 10, and 11.

Call for Contributed Papers

Fifteen-minute presentations on any topic of general interest in mathematics or related areas are solicited 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. The presentation rooms will include a blackboard; an overhead projector; a computer projection system for those who choose to bring their own computer for their presentation; and internet connection. For PC laptops and other electronic needs, please contact the local arrangements person: Mark deSaint-Rat at

desainme@muohio.edu. The contributed paper program will be posted on the web page prior to the meeting.

Contributors should submit a title and a brief abstract by **March 18, 2005**. Although online submission with your meeting registration is preferred, you may also submit your title and abstract by mail or email to the chair of the Program Committee: Vickie Van Dresar, Department of Mathematics and Computer Science, Ashland Univ., 401 College Ave, Ashland, OH 44805; vvandres@ashland.edu. Please use only plain text in your title and abstract as the abstract submittal system cannot process TeX or other graphics code.

Directions to Miami University and Parking

From the North and Northeast via I-70.

Westbound on I-70 to exit #10 which is about 80 miles west of the Columbus beltway. Travel south bound on US 127 through Eaton and Camden to westbound Ohio 73. Turn right/west toward Oxford passing the light at Ohio 73 and Ohio 177. The light at Patterson Avenue (US 27) is the west end of Ohio 73 and is adjacent to Bachelor Hall.

From the East and Southeast.

Leave I-75 at exit-#32. Follow Ohio 122 west bound to Ohio Route 4. Turn left on Ohio 4 and travel south to Ohio 73. Follow Ohio 73 right/ west bound through Trenton to Oxford. The light at Patterson Avenue (US 27) is the west end of Ohio 73 and is adjacent to Bachelor Hall.

From the South.

Travel northbound on US 27 from the I-275 beltway north to Oxford. The light at Ohio 73 is adjacent to Bachelor Hall.

Parking is not easy to find on a Friday afternoon. To the immediate south of Bachelor Hall is a parking lot which is conveniently located for us. Access is off of Patterson Ave. (US 27) and Western Drive. North of Bachelor Hall and Oh 73 is the Cook Field Parking lot which may be accessed from Oh 73. It is several times as large as the Bachelor lot. The landmark for the Cook Field Lot is the Pulley Carillon Tower. There are no parking attendants but bring any parking tickets to the Mathematics Department office.

Where to Stay

Marcum Center is 1/2 mile north of Bachelor Hall on the east side of Patterson Ave.

Hotel reservations can be made by calling 513 529-2104.

\$75.00 for two twin beds

\$75.00 for a full bed

\$84.00 for a King bed

The Miami Inn: <http://mulnx02.mcs.muohio.edu/marcum/inn.cfm>

Amerihost Inn & Suites

5190 College Corner Pike

Oxford, OH 45056

513-523-2722

\$85.00 for a double or a king

Manchester Inn & Conference Center

1027 Manchester Avenue

Middletown, Ohio 45032

\$64.00 for a Double/Double

Cut off for reservations March 14, 2005. Please use group code MAA when making reservations 1-800-523-9126

<http://www.manchesterinn.com/>

Hueston Woods Resort & Conference Center

5201 Lodge Road, College Corner, OH 45003

Cut off is March 1, 2005. Use Code GP99K17B

\$115 for a Double/Double

One cabin which sleeps 6 is available for \$145

Overlooks Acton Lake about 6 miles north of Oxford
(513) 664-3500

<http://www.huestonwoodsresort.com/static/13.htm>

Hamiltonian Hotel

1 Riverfront Plaza,

Hamilton, Ohio 45011

Cut off is March 14 and Code is P16334

\$75.00 for a Double/Double

513-896-6200 or 800-522-5570

<http://www.hamiltonianhotel.com/>

Student Housing

The student participants may stay in the Havighurst Dormitory located a little distance southeast of Bachelor Hall along Miami Western Drive. 48 beds are reserved. The student cost is \$17.50 per night. Pay by check made out to Miami Univ. either in advance or upon registration. Sheets, pillow, blanket and towels will be provided. To make reservations contact Mark de Saint-Rat: desainme@muohio.edu or Linda Ferriell, Mathematics and Statistics secretary: ferrielm@muohio.edu, Fax: 513 529-1493.

North →



Miami University Campus

The **Miami University campus map** is oriented so that the top is west and north is to the right.

All events for the spring meeting will be held in Bachelor Hall and Shriver Center.

Bachelor Hall is building #8 on the map and is on the corner of Patterson and Ohio Rt. 73. Patterson runs north-south and forms the top of the T intersection where Bachelor Hall is located.

Across Rt. 73 from Bachelor is the Cook Field Parking Lot which is #25 on the map. Bachelor Hall parking lot is #67.

Shriver Center, building #111, is located across Patterson from Bachelor Hall.

The Marcum Center, building #72, is about 1 campus block north of the Cook Field Parking Lot.

Student housing is available in Havighurst Dormitory, building #53.

Call for Student Talks

Undergraduate and graduate students are encouraged to submit abstracts for 15-minute talks at the Spring Meeting. Topics may be drawn from any area of mathematics or a related discipline. The presentation may be an expository talk, a recounting of a mathematical internship or a co-op experience, or the results of a research project. It is expected that each talk will be delivered by a single speaker. Co-authors will be listed in the program. Each student speaker will receive a free one-year MAA membership.

Contributed talks by students, faculty, and others will be given on Friday afternoon and Saturday morning. Talks will be scheduled primarily according to topic and audience level. Student talks are an integral part of the meeting and should be an enjoyable and rewarding experience for all who participate. Students preparing talks are encouraged to read Joseph Gallian's article "How to Give a Good Talk" in the April 1998, *Math Horizons*. This article is available at <http://www.jcu.edu/math/constum/gallian.pdf>

The presentation rooms will include a blackboard and an overhead projector, as well as a computer projection system, for those who choose to bring their own computer for their presentation. Abstracts should be between 25 and 75 words in length and should employ proper English grammar and spelling. Students are strongly encouraged to use the abstract submission form on the MAA Ohio Section webpage (www.maa.org/Ohio). Otherwise, abstracts may be submitted by U.S. mail or email to the chair of the Program Committee: Vickie Van Dresar, Department of Mathematics and Computer Science, Ashland University, Ashland, OH 44805, vvandres@ashland.edu. Please use only plain text in your abstract, as the abstract submission system cannot process TeX or other graphics code. If submitting an abstract by mail or e-mail, please include your name, institution, e-mail address, student status (junior, senior, etc.), name of faculty mentor for the talk, your intended audience (upper level undergraduate, lower level undergraduate, etc.), the title of the talk, and a brief description of the presentation.

Abstracts must be received by **March 18, 2005**. Due to time and space restrictions, we may not be able to accommodate all talks. Please submit your abstracts early. Students submitting abstracts should also register for the meeting.

Student Activities

Undergraduate students from institutions of the Ohio Section are invited to participate in the second annual Student Team Competition. The competition will take place at Miami University on Friday, April 1, from Noon-1:20, in the Shriver Center Multipurpose Room C. Rules and registration information can be found at <http://personal.ashland.edu/~dwick/constum.html>.

A student pizza party will be held Friday evening, followed by dessert and the after-dinner address at the general session. There is no charge, but meeting registration is necessary. See the section webpage (www.maa.org/Ohio) for online registration.

A meeting of student leaders will be held Saturday morning at 8:00 a.m. This meeting is open to leaders of campus mathematical organizations (MAA, PME, KME, Math Club, etc.) and other interested persons.

Darren Wick
Chair, CONSTUM

Miami University

Oxford is in the northwest corner of Butler County at the intersection of US 27, Ohio 73 and 732 three miles east of the Indiana line. The original mile square is bounded by Patterson Ave. on the east, Sycamore to the north, Locust Street to the west, and Chestnut on the south side. Having outgrown the mile square with a current population of 22,000 the city has spread mostly to the west and now has an incorporated area of 5.7 square miles. High Street, named in tribute to Oxford University and the center of town, has come a long way since it was used to corral horses annually in the nineteenth century. In the 1960's the goal posts were taken up town after Miami bested Purdue in football. Seven years ago the landmark Oxford Water Tower was removed and replaced by a music stage, so that residents and students can enjoy concerts in the spring and summer at M.L King Park in the town square.

Miami University, named for the Miami Tribe, was surveyed and established in 1809 on paper, but by 1810 there was only a new school house and the beginnings of High Street, still lined with stumps. The DeWitt cabin on the north side of Rte 73 at Talawanda creek is the only town building that predates Miami, though Stoddard Hall is built on what was a mound from earlier times. The first classes were held in 1824 and William Holmes McGuffey was a professor of ancient languages at Miami University from 1826 until 1836 while he was writing the McGuffey Readers. His house can be visited at Oak and Spring Streets. The campus was closed during the Civil War. By 1887 president Warfield had brought co-education to Miami-an early harbinger of suffrage.

President Millet started an ambitious program of growth in the early 1950's creating dormitories and classroom buildings in the area occupied by Vetville. The U.S. army had built temporary buildings during and after World War II between South Campus and Maple streets and as the small drab green buildings were removed, Georgian dormitories sprang up to replace them.

Currently Miami University in Oxford serves 15,300 undergraduates and 1,400 graduate students. The style of the buildings is Georgian throughout, though the Western Campus formerly a separate womens' college has several stone buildings. Western College for Women was the training ground for Freedom Summer 1964 which is commemorated by a memorial. Another development of the mid 1960's was the partnership with the cities of Middletown and Hamilton resulting in regional campuses in those cities. The regional campuses each serve about 3,000 students from southern and eastern Butler County as well as the adjacent counties.

The focus at Miami is teaching undergraduates. The 2005 U.S. News & World Report college rankings lists Miami among the top 25 public universities in the nation based on academic quality. The Department of Mathematics and Statistics has been and continues to be recognized as one of the finest undergraduate mathematics and statistics programs in the country. We are one of ten programs to be selected by the Mathematical Association of America for inclusion in its case studies project Models that Work (1995). The department is in Bachelor Hall which displays Penrose Tiling done in 1979.

Calendar

Ohio Section

Spring Section Meeting, April 1-2, 2005, Miami University, Oxford, OH.

Fall Section Meeting, October 21-22, 2005, Ashland University, Ashland, OH.

Ohio Section Short Course, June 27-29, 2005, John Carroll University, Cleveland, OH. (University Heights)

National MAA-AMS

MathFest, August 4-6, 2005, Albuquerque, NM.

Annual Joint Meetings, January 12-15, 2006, San Antonio, TX.

MathFest, August 10-12, 2006, Knoxville, TN.

Annual Joint Meetings, January 4-7, 2007, New Orleans, LA.

MathFest, August 3-5, 2007, San Jose, CA.

Annual Joint Meetings, January 6-9, 2008, San Diego, CA.

MathFest, July 31-August 2, 2008, Madison, WI.

Annual Joint Meetings, January 7-10, 2009, Washington, DC.

Annual Joint Meetings, January 6-9, 2010, San Francisco, CA.

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

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Other

Indiana Section, April 1-2, 2005, Indiana-Purdue Fort Wayne.

Allegheny Mountain Section, April 1-2, 2005, at Slippery Rock Univ., PA.

Kentucky Section, April 1-2, 2005, Morehead State University, Morehead, KY.

NCTM Annual Meeting, April 6-9, 2005, Anaheim, CA.

Michigan Section, April 29-30, 2005, Alma College, Alma MI.

State Science Day, May 7, 2005, Ohio State University.

SIAM Annual Meeting, July 11-15, 2005, New Orleans, LA.

OCTM Conference, October 6-8, 2005, Dayton Convention Center.

AMATYC Annual Conference, November 10 - 13, 2005, San Diego, CA.

Indiana Section, Fall 2005, Depauw University, Greencastle, IN.

Allegheny Mountain Section, April 7-8, 2006, Juniata College, Huntingdon, PA.

NCTM Annual Meeting, April 26-29, 2006, Kansas City, MO.

Michigan Section, May, 2006, Calvin College, Grand Rapids MI.

Complimentary copies of this newsletter are being distributed to people who would be interested in Ohio Section activities. By joining the MAA, you will get your own copy of the newsletter. If you are not an MAA member, look at the web page: www.maa.org/mbsvcs/individual.html. MAA Departmental Liaisons also have membership information.



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