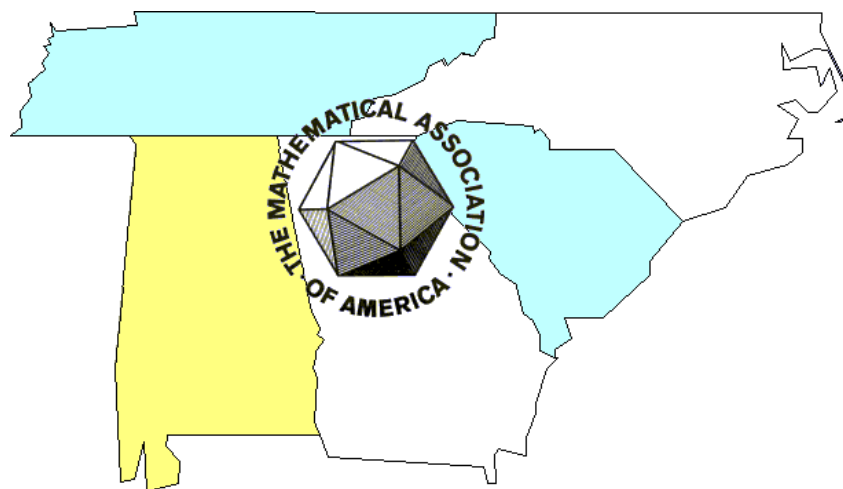


Southeastern Section Newsletter



*Fall 2010
Volume 29 Number 2*

**IMPORTANT SECTION MEETING INFORMATION
THE UNIVERSITY OF ALABAMA, TUSCALOOSA, AL,
APRIL 1-2, 2011**

**Call for Papers: Deadline March 1
Meeting Pre-Registration Form: Page 35
Short Course Information: Page 37**

LOOK INSIDE!

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The Newsletter is published in April and November each year. The deadlines for items to be included in each issue are March 15 and October 15 respectively. Departmental News appears in the November newsletter only and is solicited from department liaisons.

Material may be submitted to the editor on paper or by email, although email is preferred. Currently the newsletter is produced using Microsoft Publisher, which can import plain text files or files produced by most word-processing software.

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SECTION CALENDAR

November 5, 2010	South Carolina State Dinner, Coastal Carolina University, Conway, SC
December 1, 2010	Deadline for Nominations for the 2011 MAA-SE Distinguished Teaching Award
January 1, 2011	Deadline for Nominations for the 2011 MAA-SE Distinguished Service Award
January 5-8, 2011	MAA-AMS Annual Meeting, New Orleans, LA
January 24, 2011	Deadline for Nominations for the 2011 MAA-SE Distinguished Teaching Award for Beginning Faculty
February 2011	Deadline for Applications for the 2011-2013 Cycle of MAA-SE Project NExT Fellows
February 12, 2011	MAA Georgia State Luncheon and Undergraduate Research Conference. Mercer University, Macon, GA
February 18, 2011	Alabama MAA State Dinner, Huntingdon College, Montgomery, AL
February 19, 2011	Annual meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Huntingdon College, Montgomery, AL.
April 1-2, 2011	Southeastern Section Annual Meeting, University of Alabama, Tuscaloosa
August 4-6, 2011	Mathfest, Lexington, KY
January 4-7, 2012	MAA-AMS Annual Meeting, Boston, MA
March, 2012	Southeastern Section Annual Meeting, Clayton State University, Morrow, GA
August 2-4, 2012	Mathfest, Madison, WI
January 9-12, 2013	MAA-AMS Annual Meeting, San Diego, CA
August 1-3, 2013	Mathfest, Hartford, CT
January 15-18, 2014	MAA-AMS Annual Meeting, Baltimore, MD
August 7-9, 2014	Mathfest, Portland, OR
January 10-13, 2015	MAA-AMS Annual Meeting, San Antonio, TX
August 5-8, 2015	Mathfest, Washington, DC
January 6-9, 2016	MAA-AMS Annual Meeting, Seattle, WA
January 4-7, 2017	MAA-AMS Annual Meeting, Atlanta, GA



FROM THE CHAIR

I attended MathFest during the first week of August in Pittsburgh, PA. The section officers meeting took place on Monday afternoon, August 5th in one of the meeting rooms on the 17th floor of the beautiful and ornate Omni William Penn Hotel. Rick Gillman, chairman of the MAA Committee on Sections, presided at the meeting.

John Wyatt, the MAA IT director, shared that 11 of the 29 sections had migrated the hosting of the section website to the national MAA website. That took place for our section this past summer thanks to the efforts of our Webmaster, Jim Beuerle.

Rick Gillman distributed a handout on the recently reformulated MAA section visitors program. The basic idea is that the MAA visitor to a section is much more than simply a guest speaker in the General Session I of our meetings. He/she should participate significantly by attending business meetings, participating in various forums, etc. I feel that our past two visitors have fulfilled this new policy. We are very excited to have Doug Ensley of Shippensburg University (current Second Vice President of MAA) as our Session I speaker for the upcoming MAA-SE annual meeting at the University of Alabama in Tuscaloosa scheduled for April 1-2, 2011. In the spirit of the new visitors program, he will not only give a plenary talk but will also help organize a special session as well as participate in various meetings and panels.

At the section officers meeting at MathFest 2009 there was expressed a goal of possibly extending the Polya Lecture Program. While that program remains intact (i.e. each section is eligible for a Polya lecture every five years), a new program will start up effective during the 2011/12 academic year. The new program is called the Editor's Lecturer Program. In it sections will be allowed to invite one of the six editors of the five MAA journals, at MAA expense, to participate in a section meeting much in the same way the MAA visitor participates. The year of eligibility will be the second year after the section has a Polya lecturer. In our case, we will have a Polya lecture (by Erik Demaine of MIT) in 2012, and so we can invite an editor in 2014. It is expected that a section would respond with more hits on journals and more submissions for publication. Rick Gillman noted that in a year of eligibility a section could have, at MAA expense, both an editor as well as an official visitor.

The MAA-SE Section Executive Committee met in September at Clayton State University. Catherine Matos (GA State Director) and Cathie Aust graciously hosted the meeting. You will find the minutes of that meeting elsewhere in this newsletter. I want to take the opportunity to highlight a few features of that meeting.

We continued to discuss the formulation of a MAA-SE mission statement. A proposal was presented by the ad-hoc Mission Statement Committee. A final draft will be written for approval at the spring business meeting.

We spent most of the time discussing the upcoming annual meeting mentioned above. Jim Gleason (UA Tuscaloosa) is heading up the local arrangements for the meeting. He gave an excellent presentation to the committee. We saw many pictures of the beautiful Alabama campus (including the Bryant-Denny stadium) and the specific spaces Jim and his coworkers have reserved for our meeting there. I believe we can expect a very exciting and productive meeting this spring in Tuscaloosa!

Elsewhere in this newsletter you will find a section, written by the program chair, Pat Humphrey, concerning the program of the meeting. We will be able to hear some excellent talks by our invited speakers: Doug Ensley of Shippensburg University (Second Vice-President of the MAA), John Mayer of the University of Alabama at Birmingham (2010-2011 Section Lecturer), Martin Jones of the College of Charleston (2010 Section Teacher of the Year) and Jason Parsley of Wake Forest University (2010 MAA-SE Young Faculty Distinguished Teaching Award Winner). We have some very stimulating short courses and special sessions scheduled for the meeting. Please see the program section in this newsletter for some of the other exciting events planned for our annual meeting.

Your help is needed in continuing our efforts to provide outstanding faculty development opportunities for our new

(Continued on page 8)



FROM THE GOVERNOR

The Board of Governors met on August 4, on the eve of MathFest in Pittsburgh, PA. The Governors receive reports from many parties: Association officers, the Strategic Planning Working Groups, various directors in the Washington office, journal editors, and committees. We also vote on recipients of various prizes and awards, elected Governors-at-Large for High School Teachers (Dan Teague, NCSSM) and Minority Interests (Hortensia Soto-Johnson, U Northern Colorado), and elected a new Editor for the Monthly (Scott Chapman; Editor-Elect effective January, 2011).

President David Bressoud reported that the Cycle IV Strategic Planning Working Groups on MAA books and on SIGMAAs had been appointed; charges for these Working Groups had been approved at our JMM meeting in January. Chairs of these Working Groups are Richard Cleary (MAA books) and Doug Ensley (SIGMAAs), and their work has begun. President Bressoud also highlighted progress on the NSF-DRL REESE grant, Characteristics of Successful Programs in College Calculus. Approximately 530 colleges and universities were contacted to participate in a second round of pilot-testing surveys this fall, with about 280 agreeing to participate.

The report from the Budget Committee (Rick Cleary, chair) noted a 2009 deficit of approximately \$226K, larger than the original budgeted deficit of \$135K (July 2008), but in-line with the revised mid-year projection (July 2009). The budgeted deficit for 2010 of \$38K appears to be on target at mid-year, and the proposed 2011 budget comes close to breaking even with a deficit of \$19K, based upon projected revenue of \$7,785K and expenses of \$7,804K. Reorganization and continued thoughtful cost cutting from the staff are credited for narrowing the gap.

Associate Secretary Gerard Venema discussed meeting attendance. Attendance for the Pittsburgh MathFest was in excess of 1500, matching the record attendance in Portland the previous year. Attendance data for MathFest and Joint Meetings for the last decade show that all of the increase in attendance at joint meetings during the past decade has been due to increased student participation. To a certain extent, this is mirrored at the annual meetings for our own section. Since student participation is partially subsidized by the registration of regular members, this shift in attendance patterns results in pressure on the budget. As we celebrate the dynamic contributed by the many young emergent mathematicians at our meetings, we need to find ways to increase the participation of professional mathematicians at meetings.

As an interesting counterpoint to increased student meeting attendance, the report from Robert Anastasio, Director of Membership and Marketing, noted with concern a steep decline in student and departmental memberships over the last couple of years. This is undoubtedly due to constrained institutional budgets. An overview of the recent e-membership option shows that approximately 15% of MAA members (14.7% in the Southeastern Section) elected e-membership. Ivars Peterson, Director of Publications and Communications, indicated that the e-member experience is being studied and the MAA is working on ways to improve that experience. Mentioned were a possible offering of "flip-the-page" browsing editions of journal issues (versus downloading an article at a time from the table of contents), and consideration of adding an option to receive a printed MAA FOCUS at an additional charge (\approx \$10). Also, we are changing hosts for the electronic editions of current issues of the three journals from Ingenta to JSTOR. Some optimism was expressed that JSTOR's marketing may help stem the trend in declining library subscriptions.

A trial Journal Editors Lecturer program was announced for section meetings. The editors are no longer included on the list of eligible national visitors under the new MAA Section Visitors Program (formerly the National Speakers Program), and the MAA is seeking a way to continue the availability of these popular speakers. The Southeastern Section's opportunity for a Journal Editor Lecturer is projected to come at our Spring 2014 meeting.

Stephen Davis
October 18, 2010

PROJECT NExT-SE

Every other year the Southeastern Section of the MAA provides support for several new faculty members to become sectional fellows in Project NExT (New Experiences in Teaching). This organization sponsors professional development activities for faculty members, new and old, at all major MAA meetings. These activities address issues related to classroom management, assessment, textbook selection, tenure and promotion, and many other areas of professional interest.

Applications for new Sectional Project NExT Fellows will be solicited soon. Please contact one of the Sectional Co-directors (Patrick Bahls: pbahls@unca.edu, Karen O'Hara: kohara@highpoint.edu, or Ron Taylor: rtaylor@berry.edu) to learn more about the program and the application process.

ALSO FROM OUR GOVERNOR:

CALL FOR PAPERS

Submissions are sought for the January 2012 issue of *The College Mathematics Journal* which will be devoted to the mathematics of Martin Gardner.

Papers submitted should be short (4-10 pages in manuscript: standard letter sized sheets, double-spaced, 12 point type) and address a topic that Martin Gardner introduced in one of his Mathematical Games columns for *Scientific American*. In outline, papers should *briefly* give the history of Martin Gardner's involvement with the subject of the paper and then go on to describe a contemporary development from that topic.

In order to avoid duplication of effort, authors are strongly encouraged to write to the editor of CMJ (at cmj@oberlin.edu) describing their proposed paper. Final submissions must be received by February 1, 2011 to be assured of consideration for this issue.



FALL EXECUTIVE COMMITTEE **MEETING MINUTES**

Clayton State University, Atlanta, GA
September 10-11, 2010
John Harris, recording

Friday, September 10

Present: Bruce Atkinson, John Kenelly, Pat Humphrey, Queen Harris, Virginia Watson, Jennifer Hontz, Charlotte Knotts-Zides, David Dempsey, Jeff Knisley, Brian O'Connor, Catherine Matos, John Harris, Ron Taylor, Jim Gleason, Zhijian Wu, David Stone, Laurie Heyer, Stephen Davis, Cathie Aust, Mei Chen

The meeting started 7:30 pm.

Minutes from the Spring 2010 executive committee meeting were approved.

Most of the officer reports had been emailed to the executive committee prior to this meeting. (The reports themselves are available from the Secretary/Treasurer.) Several officers highlighted a few items that were contained in their respective reports.

Atkinson (chair) mentioned a request from Rick Gilman (of the national MAA) for separate reports to be filed for all MAA related section activities. Organizers of the events will collect desired information and send the reports to the Secretary-Treasurer who will then submit them to the national office.

Several committee members asked Davis (Governor) about a few items in his report. In particular, the issue of membership renewal was discussed.

There was a discussion regarding the increasing amount in the Section's account. One idea was to establish a reserve fund, to have in case registration amounts are lean in a given year. The group also discussed the need to identify ways to use Section resources effectively. Atkinson suggested that we make this an agenda item for the Spring 2011 executive committee meeting. However, since the support of sectional NExT fellows is a strong possibility as far as the use of the funds goes, the group decided to settle on a particular amount for the incoming group of NExT-SE fellows. The committee decided to budget \$2000 to support the incoming group of NExT-SE fellows to attend the Spring 2011 meeting. Organizers of NExT-SE will determine the best way to make these funds available.

Stone (coordinator of beginning faculty activities) included several action items in his report, and the committee addressed these in turn. Stone suggested adding an additional session of talks for beginning faculty (to total 4 sessions). Stone also asked for ideas for other activities that could involve beginning faculty. One strong contender is a poster session for beginning faculty (and possibly graduate students).

The committee decided to add the two previous beginning faculty award winners to the selection committee for that award. They join the state directors and the coordinator of beginning student activities. This committee membership will be added to the bylaws during the next bylaw revision.

Heyer (student activities coordinator) mentioned the nice problem of having increased numbers of student presenters and student jeopardy participants. The committee realizes that in order for these activities to remain as effective as they are, modifications may need to be made to handle the increased numbers. Several ideas were suggested, and Heyer will take these under consideration.

(Continued on Page 8)

Chair's Report (continued from page 4)

faculty in the section as well as educational opportunities for students in the section. To help make a difference, please consider making a donation to the Southeast Section to support the MAA-SE Project NEXt and/or student activities in the Section. (Please send your check to the MAA-SE to John Harris, MAA-SE Secretary-Treasurer, Department of Mathematics, Furman University, Greenville, SC 29613.)

Bruce W. Atkinson
MAA-SE Chair

Executive Comm. Minutes (continued from page 7)

Kenelly (national treasurer) gave a brief report regarding finances of the national association. He said that the association is doing as well as most, if not better.

Atkinson indicated that the Polya lecturer is lined up for the 2012 meeting --- Eric Demaine.

Atkinson opened a discussion on a draft of a section mission statement. Several members provided a few suggestions for the draft. Atkinson will bring a new draft at a later time, possibly within 24 hours.

Atkinson mentioned that a potential short course provider (from another section) has asked if travel funds are available for him to attend the spring meeting. The committee sees this as a larger issue regarding short course presenters. A discussion ensued about the nature of short courses. The committee is not comfortable at this time providing travel support for short course presenters.

The committee did decide, however, that registration fees for short course presenters --- as well as for plenary speakers --- should be waived.

Atkinson brought up the issue of membership on the NEXt-SE organizing committee. As there currently exists no formal process for selecting members of this group, he wondered if there ought to be. The executive committee decided that it might be wise to establish terms of service. The current NEXt-SE committee will discuss the issue and bring a recommendation to the spring meeting.

Another question arose regarding the voting status of executive committee members. This is an issue that will require some careful study and may well be a part of the next bylaw revision.

The meeting adjourned at 10:30 pm.

Saturday, September 11

Present: Bruce Atkinson, John Kenelly, Pat Humphrey, Queen Harris, Virginia Watson, Jennifer Hontz, Charlotte Knotts-Zides, David Dempsey, Jeff Knisley, Brian O'Connor, Catherine Matos, John Harris, Ron Taylor, Jim Gleason, Zhijian Wu, Laurie Heyer, Stephen Davis, Cathie Aust, Mei Chen

The meeting began at 8:45 am.

The group briefly reviewed the results of the survey given after the 2010 Spring meeting.

The committee agreed to keep the same format for the plenary speakers (incorporating the previous year's winner of the beginning faculty teaching award), and details were worked out concerning introduction duties.

Humphrey (program chair) discussed possibilities for short courses and special sessions. The idea was floated once again regarding increasing the time footprint of the meeting. With so many session ideas and other options, the Friday afternoon and Saturday morning sessions are not adequate. One idea is to extend into the Friday morning time slot. The committee agreed that this would be a good year to try this.

Heyer suggested that a third buzzer system be purchased for Jeopardy. This would allow more teams to participate and the addition of an intermediate round. The committee decided to move forward with that purchase. Heyer also discussed a few other ideas for student activities at the meeting.

Gleason (local organizer for 2011) discussed online registration possibilities. This led to a discussion regarding the benefits of establishing a standard procedure for collecting registration money. One possibility is for all registration funds to come directly to the Section account, rather than having it go to the local host first and then to the Section. If this were the case, the Section could provide the local host with advance funds to cover costs.

The committee decided that for the 2011 spring meeting, a paypal account be set up for the Section. All registration funds will go directly to the MAA-SE account, and the treasurer will provide expense funds to the local organizers as needed.

Jim Gleason gave a presentation regarding the local arrangements for the spring 2011 meeting.

The meeting adjourned at 12:00 pm.

STATE DIRECTOR ANNOUNCEMENTS

From David Dempsey, State Director of Alabama

The annual Alabama MAA State Dinner will be held on Friday evening, February 18, 2011, on the campus of Huntingdon College in Montgomery, AL. The speaker will be Julie Barnes of Western Carolina University (topic TBA). More details will be sent out soon to Alabama MAA members, but members from neighboring states are also welcome. For more information, please contact the Alabama MAA State Director, David Dempsey, at ddempsey@jsu.edu.

Also, the annual meeting of the Alabama Association of College Teachers of Mathematics (AACTM) will be the following day, February 19, 2011, at Huntingdon College. For more information, see <http://aactm.jsu.edu/>, where the announcement and call for papers will soon be posted.

Report from Catherine Matos, State Director of Georgia

The 2011 MAA Georgia State Luncheon will be held at Mercer University in conjunction with their Undergraduate Research Conference February 12, 2011. In addition, there are a number of activities planned in Georgia at college and university campuses during this academic year. Here are announcements for some of the upcoming activities being held this fall and coming spring:

Columbus State University: CSU will hold its annual invitational mathematics tournament for high school students Saturday, February 26, 2011.

Kennesaw State University: KSU will hold Part I of the 2010-2011 Kennesaw State University Mathematics Competition on October 27, 2010. All Georgia public and private high schools are welcome to participate. The competition is administered to students at their own high schools at no cost. Students whose Part I scores place them in the top 10% statewide are invited to compete in Part II, which consists of five problems each requiring rigorous proof. For more information, visit the contest website, math.kennesaw.edu/~ckoppelm.

Georgia Perimeter College: GPC will hold their 24th Georgia Perimeter College Math Conference at the Clarkston Campus on Feb 18-19, 2011. For more information, visit the conference website at www.gpc.edu/~gpcmathc. If you have any questions about the conference or would like to submit a Call for Proposal, please contact Dihema.Ferguson@gpc.edu.

Georgia Southern University: Georgia Southern will hold their 23rd Annual Mathematics Tournament February 12, 2011

Mercer University: Mercer is will hold the Mercer University Undergraduate Research Conference on February 12, 2011. For more information, visit www.mercer.edu/math/muurmac.

Valdosta State University: VSU will hold their 16th Annual Mathematics Technology Conference in February 2011.



CALL FOR NOMINATIONS FOR THE 2011 SOUTH-EASTERN SECTION AWARD for DISTINGUISHED TEACHING by a BEGINNING COLLEGE or UNIVERSITY MATHEMATICS FACULTY MEMBER

At the Spring Section Meeting at Elon University, we presented the MAA Southeastern Section Award for Distinguished Teaching by a Beginning College or University Mathematics Faculty Member to Jason Parsley of Wake Forest University.

We will present the 2011 award at the Spring meeting at the University of Alabama, Tuscaloosa. The deadline for submissions of all nominations materials for the 2011 award is Monday, January 24, 2011. Details and nomination form are available in this newsletter on the following pages, as well as on the section website.

That great teacher in your department has no chance of winning this award if he/she is not nominated – begin the process now!

Contact David Stone, Chair of the Selection Committee, at dstone@georgiasouthern.edu with any questions. See Pages 24-26 of this newsletter for detailed nomination instructions.

Report from Mei-Qin Chen, State Director of South Carolina

The South Carolina State Dinner will be held at the Coastal Carolina University on Friday, November 5, 2010. Dr. Jim Solazzo of Coastal Carolina University will be the dinner speaker and he will talk about how to develop an Undergraduate Research program. The deadline to register for the dinner is October 29. For more details, please visit the website:

http://www.coastal.edu/math/MAA_dinner.html.

The 2013 MAA-SE spring meeting will be held in South Carolina. A call for hosting the 2013 MAA-SE spring meeting has been sent to all colleges and universities in South Carolina and is also posted at:

<http://macs.citadel.edu/chenm/MAA-SE/InvitationToHostMeetingInSC2013.doc>. The deadline is February 1, 2011.

Report from Brian O'Connor, State Director of Tennessee

The 2010-11 Tennessee State Dinner was hosted by Carson-Newman College on Friday, October 22, 2010, in Blye-Poteat Hall on campus. The speaker was Prof. Kenneth Massey of the Carson-Newman math department, who spoke about "The \$160 Billion Dollar Algorithm for Ranking College Football Teams". Prof. Massey is the developer of the Massey Rating, a long-standing component of the college football BCS rankings, and also now used for USA Today's national ranking for high school football.

NEWS FROM THE SOUTHEASTERN SECTION CAMPUSES

Agnes Scott College (Decatur, GA)

Jim Wiseman delivered an invited talk on "Symbolic dynamics from overlapping covers" at the satellite conference on "Various Aspects of Dynamical Systems" held in conjunction with the International Congress of Mathematicians in India in late August. Alan Koch received a grant from the Center for Undergraduate Research in Mathematics at Brigham Young University to fund a three-student yearlong research program on Fibonacci sequences modulo m . The three mathematics majors – a sophomore, a junior, and a senior -- will work together under Alan's guidance to write a research paper and will present the results at a conference in Utah next spring. In March, Larry Riddle gave the 2010 Joseph R. Gladden, Jr., Public Lecture on "Pioneering Women in Mathematics". He was also the keynote speaker at the 53rd Annual Science Seminar at Hollins University. Myrtle Lewin was awarded the Vulcan Materials Company Award for Excellence in Teaching, a well-deserved honor, at the 2010 Agnes Scott College Commencement. This award was created to recognize faculty who make a significant difference in both the classroom and campus community. (Submitted by Larry Riddle)

Appalachian State University (Boone, NC)

The Mathematical Sciences Department at Appalachian State University welcomes three new faculty members: Todd Abel, Nathan Weigl, and Peter Simonson. We also congratulate Drs. Rene' Salinas, Tracie McLemore Salinas, and Katrina Palmer on their tenure and promotion to associate professor, along with Dr. Eric Marland's promotion to full professor. Rick Klima has taken the position as assistant chair of the department and Katie Mawhinney now co-directs the graduate program with Katrina Palmer. (Submitted by Katie Mawhinney)

Auburn University (Auburn, AL)

Retirement: J. P. Holmes retired in July, 2010 after 38 years of service.

Tenure and Promotion: Huajun Huang and Peng Zeng received tenure and were promoted to the rank of associate professor. Mark Carpenter obtained full professorship.

Grants: Chris Rodger obtained an NSF grant to take 3 graduate students to Central Australia to run two weekend math camps for about 70 5th to 9th grade students. Overtoun Jenda and Pete Johnson got another 3-year NSF grant for summer Research Experience for Undergraduates in Algebra and Discrete Mathematics programs, and ran the first of these this past summer, with 7 participants. In 2011 the program will have 9 participants.

Faculty Awards: Dmitry Glotov was given Bob Butz Teaching Award (the award was created by Dr. Phillip Bean an Auburn Ph.D. graduate in recognition of Dr. Bob Butz, a retired faculty member). Chris Rodger obtained C. Harry Knowles Professor for Research Leadership in Mathematics Instruction. Narendra K. Govil received the COSAM (College of Sciences and Mathematics) Dean's Outstanding Advisor Award.

Conferences: AU graduate students Amin Bahmanian, Dan Roberts, Nidhi Sehgal, Jonathan Clark ran the 6th Graduate Student Combinatorics Conference in April 3-4 2010. See <http://www.dms.auburn.edu/gscsc/Welcome.html>.

Honors: T.Y. Tam is elected as a member of Board of Directors of ILAS.

Special Lectures: Chris Rodger gave 2 invited lectures at the Southeastern Conference on Combinatorics, Graph Theory and Computing. Gary Gruenhagen gave two invited tutorial lectures on topological games at the BLAST conference held at the University of Colorado (Boulder) in June, 2010. Pete Johnson was the principal speaker at the Troy University Mathfest in February, 2010. Professor George E. Andrews, Fellow of the National Academy of Sciences and President of the American Mathematical Society visited the department on 20th April, 2010 and presented a popular talk on Srinivas Ramanujan.

Visitors: Elizabeth Billington, Professor of Mathematics at the University of Queensland and chief editor of the Australian Journal of Combinatorics, visited Auburn for a month in August and early September and conducted joint research in Auburn.

Student Awards: Jan Boronski (COSAM and AU outstanding Ph.D award), Michael Tiemeyer (AU outstanding dissertation award), Kelly Bragan (COSAM and AU outstanding Master student award), Mary Clair Thompson (AU SWSM Fellowship), Jan Boronski and Aijun Zhang (Haynsworth Fellowship), Alex Byaly and Nan Jiang (Baskervill Fellowship).

PhDs graduated: Chris Fuller, David Prier, Jennifer Secor Hutchinson, Michael Tiemeyer, Jan Boronski, Fidele Ngwane, Asli Guldurdek, Roxanne Back (Submitted by Tin-Yau Tam)

Austin Peay State University (Clarksville, TN)

Two faculty members retired last year after many years of dedicated service to APSU and were both granted Emeritus status, Floyd Christian and Larry Hoehn (chair of our department). Fortunately, both will be around for a while as post-retirement faculty. Congratulations to Nell Rayburn for being elected as our new chair of Mathematics. Congratulations to Ann Assad, Ramanjit Sahi, and Ben Ntatin. All were promoted to Associate Professor.

APSU Mathematics Department has added six new faculty. Neal Fentress, PhD from University of Alabama, Yi-Lin Cheng, Ph D from Iowa State University, William Parr, MS from Middle Tennessee State University, and Jennifer Fillingim, Ph.D from University of Mississippi, have accepted temporary appointments. Tyler Turner, MS from University of Memphis, and Ashley Stonecipher, MS from Indiana State University, have accepted tenure track appointments.

Students Casey McKnight and Amber O'Connell gave a presentation, titled "A Parallel Finite Element Method for the Convection-Diffusion-Reaction Equation," while students Zachary Hodge and Jesse Hotchkin presented "The Finite Element Method for Elliptic Problems" at the Mathfest in August. Student Tabitha Michael, a current APSU Presidential Research Scholar Fellow, gave a talk, "Developmental Mathematics Through the Centuries."

Ben Ntatin organize and moderate a contributed paper session in pure mathematics at Mathfest, and presented a paper entitled "On orbits of semi-simple Lie groups acting on flag manifolds".

APSU was a host site for the Middle Tennessee Region of the 53rd Tennessee Mathematics Teachers Association Annual Mathematics Contest for high school students in April. We will once again be a host site for this contest next April. We also host the annual APSU middle school mathematics contest in April of each year, rewarding and encouraging young students to study mathematics. (Submitted by Jim Vandergriff)

Birmingham-Southern College (Birmingham, AL)

The mathematics faculty at Birmingham-Southern College is very excited to welcome a new colleague, Dr. Anne Yust. Anne is a mathematical biologist and comes to us from Carnegie-Mellon, where she earned her PhD. Her work includes mathematical modeling of aspects of the immune system, and she looks forward to providing her students at BSC with new opportunities for research projects that apply mathematics to biological systems.

This summer, Birmingham-Southern mathematics major Amy Schumacher was selected to attend the NSF-funded REU in Mathematics at Central Michi-

gan University. Together with student Brian Rooks (UNC Chapel Hill) and CMU professor Dr. Kahadawala Cooray, she worked on a statistics project and co-authored a paper on improving models of highly positively-skewed data entitled "The Power Cauchy Distribution: Derivation, Description and Composite Models." Amy and Brian will present their work at the Joint Mathematics Meetings in New Orleans.

On November 4, we will welcome MAA-SE Section Lecturer, Dr. John Mayer (University of Alabama at Birmingham), as he visits BSC to present a colloquium lecture entitled "Mathematical Models for Fairness."

This summer, Professor Mary Jane Turner retired after 19 years of service to Birmingham-Southern College. With a joint appointment in mathematics and education, Professor Turner enhanced the work of both programs with her good nature, her attention to detail, and her outstanding dedication to students. (Submitted by Barry Spieler)

Brevard College (Brevard, NC)

In the last two years we have graduated ten more B.A. mathematicians. At least four are now pursuing a graduate degree in mathematics and several are teaching high school mathematics. After an extended period of almost all male math majors, we are again enjoying in our classes a number of excellent young women mathematicians. More and more business majors here are pursuing the minor in mathematics.

Charles Wallis was awarded tenure and was selected by the Student Government Association as Outstanding Brevard College Faculty Member of the Year. He also has led us in the internal five-year review of our program and in our efforts toward SACS reaccreditation. Our newest colleague, Kathryn Rasmussen, was awarded the Ph.D. from Rensselaer Polytechnic Institute, and our oldest member, Clarke Wellborn recently got married! (Submitted by Clarke Wellborn)

The Citadel (Charleston, SC)

The Department of Mathematics and Computer Science is undergoing some significant turnover in personnel. Steve Comer, Peter Greim, and Ishaq Zahid have all retired, while Spencer Hurd and Jean-Mariè Pages will retire in May, 2011. We have hired two assistant professors in mathematics, Antara Mukherjee (who has been an adjunct here for a couple of years), and Upasana Kashyap, who received her Ph.D. from the University of Houston. Li Zhang was tenured and promoted to Associate Professor. We also hired Steve Cotter as an instructor and Program Director for graduate programs in mathematics education. (Submitted by David Trautman)

Coastal Carolina University (Conway, SC)

The Department of Mathematics/Statistics at Coastal Carolina University promoted Menassie Ephrem, Thomas Hoffman, Andrew Incognito, and James Solazzo to associate professor. Several new faculty members have joined our department. In 2009, we hired three new assistant professors: Raj Dahal- (Assistant Professor) PhD from University of Nebraska, Ogul Arslan- (Visiting Asst. Professor) PhD from University of Florida, and Oscar Levin (Visiting Asst. Professor) PhD from University of Connecticut. In addition we hired four new lecturers: Meghan Carnes, Jamie Hedges, Gerald Lamb, and Denise Williams. In 2010, we hired an additional three lecturers: Eric Fu, Jennifer Maynard, and Peggy Sattlemeyer.

The CCU Department of Mathematics/Statistics welcomes faculty from other institutions who are interested in giving a colloquium talk on their own research, undergraduate research and/or teaching pedagogies. If you are interested in visiting CCU, please contact Jim Solazzo at jsolazzo@coastal.edu. Please visit www.coastal.edu/math to learn more about our department and faculty members. (Submitted by James Solazzo)

Columbus State University (Columbus, GA)

Madhu Bhandary was granted tenure. Ken Friedrichs was promoted to Senior Lecturer. Carlos Almada was promoted to Full Professor. Baiqiao Deng was named Interim Chair. Tim Howard rejoined the department after serving a semester in the Office of Academic Affairs. The department is conducting a search for a permanent Chair.

Our faculty had 14 refereed papers published or accepted for publication; 5 papers submitted to refereed journals; 6 solutions to the math problems proposed in math journals and two solutions published; 1 proposed problem published; 5 undergraduate research projects supervised, 4 of them presented at the CSU Tower Day in Spring 2010 with one of them received the Tower Day Awards for Outstanding Undergraduate Research.

Under supervision of math faculty, 9 students submitted 15 solutions to the math problems proposed in math journals; 4 students passed the Society of Actuaries Probability Exam with one scoring a 9; 1 student presented a paper at regional undergraduate research conference.

The department (faculty and students) produced a Putnam team, held its annual High School Math Competition, and maintained three active math clubs. (Submitted by Richard Stevens)

Duke University (Durham, NC)

We are happy to announce that several senior professors are joining our department this year. Richard

Durrett, previously Professor of Mathematics at Cornell University, has been appointed James B. Duke Professor of Mathematics. Rick is the author of more than 170 research papers and 9 books. He was elected to the National Academy of Sciences in 2007. Ingrid Daubechies, previously Professor of Mathematics at Princeton University, will join our department in January, 2011. Ingrid was elected to the National Academy of Sciences in 1998. She has recently been elected president of the International Mathematical Union. Robert Calderbank, previously Professor of Electrical Engineering and Mathematics, has joined the Duke faculty as Professor of Computer Science, Mathematics and Electrical Engineering and as Dean of the Natural Sciences. He was elected to the National Academy of Engineering in 2005. (Submitted by David Kraines)

Elon University (Elon, NC)

The Department of Mathematics at Elon University has changed its name and is now the Department of Mathematics and Statistics. The department in Fall 2010 began offering Bachelor of Science and Bachelor of Arts degrees in statistics and a Bachelor of Science degree in applied mathematics. There are also minors now available in statistics and applied mathematics. Elon University hosted the 89th meeting of the MAA Southeastern Section in March 2010.

The Department of Mathematics and Statistics welcomed Dr. Chad Awtry as a new Assistant Professor. Dr. Awtry is participating in Project NExT. Elon students presented their undergraduate research at different conferences:

- o Students Amanda Brown, Melissa Gaisser, Kelsey Johnson, and Mary (Christy) Minor presented posters at MAA-SE in March 2010.
- o Students Amanda Brown and Mary (Christy) Minor gave presentations as the Fifth Annual Regional Undergraduate Mathematics Conference at UNC-Greensboro on November 7, 2009.
- o Student Amanda Brown presented her work at the National Conferences on Undergraduate Research at the University of Montana, April 15-17, 2010.
- o Student Amanda Ketner collaboratively gave two presentations with Elon faculty (one with Dr. Alan Russell and one with Dr. Alan Russell and Jan Mays) at the 2010 Annual Conference of the National Council of Teachers of Mathematics, San Diego, CA, April 21st - 24th, 2010.
- o Student Amanda Ketner (with Dr. Alan Russell) gave a presentation at the United States Conference on Teaching Statistics (USCOTS), Columbus, OH, June 25th - 27th, 2009.

Elon professor Dr. J. Todd Lee is the 39th Elon faculty member to receive the Daniels-Danieley Award for Excellence in Teaching. The award was established

by President Emeritus J. Earl Danieleley '46 and his wife, Verona Daniels Danieleley, in honor of their parents. He is the third math faculty member to receive this award, including Bill Barbee in 1973-74 and Richard Haworth in 1981-82. Dr. Lee was also recently promoted to Full Professor. Elon Student Kelsey Johnson was awarded the Patterson Prize at the MAA-SE meeting for her undergraduate research on 15 puzzle. Elon Student Amanda Ketner has been selected as the Outstanding Mathematics Education Student from the Central Region of NCCTM. (Submitted by Karen Yokley)

Emory University (Atlanta, GA)

The department added three new faculty members: Ken Ono arrived as Asa Griggs Candler Professor of mathematics, Valerie Summet (PhD Georgia Tech 2009) is Lecturer in computer science, and Zachary Kent (PhD Hawaii 2010) is an Emory Fellow specializing in number theory.

We are participating in two new joint conference series. Together with Georgia Tech and University of Georgia-Athens we have a once-a-semester Athens-Atlanta Number Theory seminar with two speakers; the next one will be held at Emory in February, with talks by Yuri Tschinkel and K. Soundararajan. Together with Georgia Tech and Georgia State, we are part of a series of 9 mini-conferences over the next three years on combinatorics and graph theory; the first of these will be held November 13-14 at Emory, featuring two lectures by Benny Sudakov.

2008 PhD recipient Andrzej Dudek shared the "Open Mind" award, given to the best young Polish combinatorist every other year.

Steve Batterson and Shanshuang Yang were promoted to full professor, and R. Parimala was promoted to Arts & Sciences Distinguished Professor. The proceedings of her 60th birthday conference, "Quadratic forms, linear algebraic groups, and cohomology", was published by Springer in July as part of the series Developments in Mathematics. (Submitted by Skip Garibaldi)

Francis Marion University (Florence, SC)

The 2009-2010 academic year was full of excitement for the mathematics faculty at Francis Marion University. The annual Pee-Dee Regional High-School Mathematics Tournament was held on December 8, 2009. It attracted approximately 300 students from about 17 schools in the region. The tournament consists of a written competition on the morning to determine which schools advance to the final round. Those schools then send a team of four students to answer questions on a stage. The next tournament is scheduled for Tuesday, December 7, 2010.

On April 2, 2010, FMU was proud to host its annual Francis Marion Undergraduate Mathematics con-

ference (FMUMC). This conference provides undergraduate students a forum to present their work. This year we had 8 schools participate with a total of 27 students. Of those students, 17 gave presentations. The next conference is scheduled for Friday, March 25, 2011.

We are proud to announce new hires, a promotion, and some awards. Dr. Julian Buck joins us from the University of Oregon where he earned his MS and PhD. Originally from Canada, he attended the University of Northern British Columbia for his undergraduate degree. Art DeGraw joins us as well. He earned his MA in mathematics from the State University of New York at Albany. Also, Dr. Tom Fitzkee was promoted to Professor of Mathematics. Finally, Reneé Dowdy and Sophia Waymyers completed their tenth years with the university. As always, we are looking forward to the new academic year! (Submitted by David Szurley)

Furman University (Greenville, SC)

The Department of Mathematics at Furman enjoyed a good year. Sarah Frick had a research paper published in the *Journal of Theoretical Probability*. In January, she traveled with a group of Furman's mathematics majors to the 12th Nebraska Conference for Undergraduate Women in Mathematics at the University of Nebraska, where she facilitated a small group discussion on "What is Research?" John Harris spent two weeks in South Africa participating in a workshop on graph theory. Kevin Hutson had a research paper published in *Networks*. He also accompanied two undergraduate students to present their research with him at the annual INFORMS conference in San Diego, CA and at the 41st Southeastern Conference on Combinatorics, Graph Theory, and Computing in Boca Raton, FL. Doug Rall gave a plenary talk the conference "Colourings, Independence, and Domination, 2009" in Szklarska, Poland. Hamp Sherard gave a talk at the National Council of Teachers of Mathematics Annual Meeting and Exposition. Hamp continues to serve as the editor of the Quick Reads Department of the NCTM *Journal Mathematics Teaching in the Middle School*. Bob Fray attended the annual conference of the Resource Modeling Association held in Helsinki, Finland. He is editor of the newsletter for this organization.

The Department's Clanton visitor for last year was Donald Saari, Distinguished Professor of Mathematics and Economics and the Director of the Institute for Mathematical Behavioral Sciences at the University of California Irvine. Professor Saari gave two wonderful lectures: "Donut Power! A Mathematical Consequences of a Torus" and "Did Your Group Elect Whom They Really Wanted?" The Clanton visitor for this year will be J. Michael Steele, C.F. Koo Professor of Statistics and Operations and Information Management at The

Georgia College & State University (Milledgeville, GA)

The Department of Mathematics welcomes Dr. Yuriy Bulka. Yuriy joins us as a Limited Term Assistant Professor of Mathematics. He received his Ph.D. in 2006 from the University of Alabama. His research interests are in numerical analysis and integral equations.

Dr. James Baugh rejoins us as Limited Term Assistant Professor of Mathematics, having previously served in this capacity from 2005-2009. James has an M.S. in Mathematics and a Ph.D. in Physics, both from Georgia Tech.

The Department of Mathematics congratulates Dr. Janet Shiver for the successful completion of her Ph.D. in Mathematics Education at the University of Georgia in 2010. Janet had been on faculty at GCSU since Fall 2001 and leaves this year due to the relocation of her husband, Dr. Todd Shiver, who is now chair of the Department of Music at Central Washington University (CWU) in Ellensburg, Washington. Janet joins her husband on faculty at CWU as well and is teaching full-time in the Department of Mathematics there.
(Submitted by Martha Allen)

Georgia Gwinnett College (Lawrenceville, GA)

Georgia Gwinnett College continues to grow at an astounding rate, both in terms of students, programs, and faculty. This year the School of Science and Technology and the School of Education are proud to welcome Dr. Priya Boindala, Dr. Feng Chen, Dr. Holly Clark, Dr. Ryan Clark, Dr. Ramakrishnan Menon (math education), Dr. Gary Nelson (math education), Dr. Mike Saum, Dr. Livinus Uko, and Dr. Aris Winger (visiting) to the mathematics faculty. (Submitted by Amy Erickson)

Georgia Perimeter College, Clarkston Campus (Clarkston, GA)

The Mathematics, Computer Science and Engineering Department of Georgia Perimeter College, Clarkston campus, is pleased to welcome four fulltime faculty members. Dr. Kinnari Amin and Dr. William Griffin join the faculty as tenure-track instructors and Diana McGinnis and Margaret "Chuckie" Hairston as term-to-term instructors.

Donna Brouillette, who had been our interim Department Chair for 2009-2010, is now our Department Chair.

Congratulations to John J. Weber III who was awarded a Ph.D in Mathematics Education from the University of Georgia in Fall 2010 under the supervision

of Dr. Denise Spangler. Congratulations to Kinnari Amin who was awarded a Ph.D in Mathematics from Emory University in August 2010. Her dissertation was in graph theory, titled "On Kt-saturated Graphs", under the supervision of Dr. Ronald Gould. Congratulations to Ray Collings for being selected as the 2010 recipient of the MAA Southeastern Section's Distinguished Service Award.

Dr. Allison Wolf is one of the 20 Fellows selected for AMATYC's Project ACCESS (Advancing Community College Careers: Education, Scholarship, and Service) for 2010-2011.

We say goodbye to Dr. Wai "Jenny" Law who will be leaving us at the end of the semester to work for the federal government as a mathematician.

Three of our campuses sent teams to the Gainesville State College Mathematics Tournament. GPC came in first overall and a GPC Clarkston campus team came in third in the team competition. GPC students did very well in the individual competition: Tapas Misra (Clarkston) placed second, Patrice Germain (Decatur) placed fourth, and Dieu Vy Nguyen (Clarkston) placed fifth.

The 24th Annual Georgia Perimeter College Math Conference will be held on Clarkston Campus, February 18-19, 2011. Please join us for an interesting and informative program. For further information about attending or presenting at the conference, contact Di-hema.Ferguson@gpc.edu or go to <http://www.gpc.edu/~gpcmathc>. (Submitted by Alice Eiko Pierce)

Georgia Southern University (Statesboro GA)

We have one new faculty member this year. Jonathan Duggins joins us as an Assistant Professor of Statistics. He recently earned his Ph. D at Virginia Tech. Promotions and Tenure awards went to Alina Iacob (tenure) and Jiehua Zhu (tenure and promotion to Associate Professor). In other faculty news, Susie Lanier was the recipient of the College of Science and Technology Award for Excellence in Service. Congratulations to all! Our Mathematics Tournament was snowed out last February 13! The written test was completed by mail. We'll hope for better weather for this year's tournament on February 12. Eagle Math-a-mania (a competition for grades K – 5) was held on April 10 with over 140 participants!

The first Eagle Undergraduate Mathematics Conference was held March 6, 2010. We had over 100 participants (faculty and students from Georgia, Florida and South Carolina) with keynote speaker David Sumner from the University of South Carolina. In addition to presentations by students involved in undergraduate research, thirteen student teams competed in a problem-solving competition. A team from Georgia Southern

(Continued on page 17)

4th Biennial Mercer University Undergraduate Research in Mathematics Conference (MUURMaC)



**Saturday
February 12,
2011**

- Conference
- GA MAA State Lunch
- Competition

The Mercer University Department of Mathematics announces a conference for students and faculty interested in undergraduate research.

We invite submissions for fifteen-minute presentations from undergraduates engaged in the research process. Teams of three students each are also invited to participate in a problem solving competition. The conference will take place in conjunction with the Georgia MAA State Lunch. Plenary lectures will be given by the winner of the 2010 JMM Mathematical Art Exhibit

Dr. Robert Bosch
Robert and Eleanor Biggs Professor of Natural Science
Oberlin College

Partial funding will be available for presenters.

For more information see <http://www.mercer.edu/math/muurnac/>
or contact Dr. Julie Beier at beier_jc@mercer.edu.

Deadline for abstracts and registration: January 31, 2011

University (Toby Sanders, Nathan Dunn and Anh Tran) earned first place. Funding for the conference was provided by NSF grant DMS-0846477 through the MAA Regional Undergraduate Mathematics Conferences program, <http://www.maa.org/RUMC>. Jiehua Zhu (Project Director), Hua Wang (Assistant Project Director), Pat Humphrey, David Stone, Yan Wu and Martha Abell submitted the proposal.

Last year's distinguished Lecture was given by Frank Morgan of Williams College on "The Double-Bubble Theorem." He explained what shape one would get when two soap bubbles come together. The Campus Life Enrichment Lecture "Mathematics of Fururama" was given by Michael Lacey of Georgia Tech on March 4.

The Master of Science in Mathematics degree program has grown significantly in recent years. We had 18 graduates from Fall 2009 to Summer 2010. All of our graduates are either going on to assistantships in Ph.D. programs or finding jobs in government, industry or education. Several students earned recognition this year as the top undergraduate and graduate students. The department recognized two of our top graduate students as selected by the Graduate Coordinating Committee. The Outstanding Graduate Student Award for 2009-2010 went to Daniel Gray for his dedication to the study of mathematics, his high achievement academically and his strong potential as a mathematician. The Outstanding Graduate Assistant Award for 2009-2010 went to Sippapas (Tep) Sirijatuphat for his efforts in connection with the Calculus labs and the Hybrid College Algebra Project as well as for his dedicated work ethic and his enthusiasm in working with fellow graduate students and faculty.

Two of our top senior mathematics majors, Phillip Lorren and Toby Sanders, were recognized at the Honors Day Convocation on April 7, 2010, as the recipients of the Mathematics Award. After graduation this spring, Phillip plans to pursue a career in actuarial science while Toby will enroll in the Ph.D. program in mathematics at the University of South Carolina with a graduate assistantship.

Several of our undergraduate students received recognition in Spring 2010 for their performance in math competitions. A student team of three undergraduates, Tushar Goel, Elizabeth Lowe, and Anh Tran, placed 8th in the world on Problem A in the 2010 Mathematical Competition in Modeling (MCM). For all problems, they placed 31st out of 2610 teams worldwide. Three students, Anh Tran, Goel Tushar and Nathan Farmer, scored outstanding scores on the 2009 Putnam Exam in December 2009. This was the best overall showing by Georgia Southern students in the history of the competition. The team of Nathan Dunn, Danielle Ripley, Toby Sanders and Anh Tran won their first

round of Math Jeopardy at the 2010 Southeastern Section Meeting of the Mathematical Association of America. Senior mathematics major Toby Sanders won one of the Patterson Prizes for a top undergraduate presentation at the 2010 Southeastern Section Meeting of the Mathematical Association of America. Anh Tran earned 6th place in the U.S. National Collegiate Mathematics Championship at MathFest 2010, August 7, 2010, in Pittsburgh, PA.

Last, but not least – we'll be hosting the Southeastern Section of AMS March 12-13, 2011. Mark your calendars! (Submitted by Pat Humphrey)

Kennesaw State University (Kennesaw, GA)

We hired two new faculty this year: Yuliya Babenko, Assistant Professor of Mathematics, PhD from Vanderbilt, comes to us from Sam Houston; and Kelly Edenfield, Assistant Professor of Mathematics Education, who just completed a PhD from UGA.

Louise Lawson was promoted to full professor and received tenure. Mary Garner was promoted to full professor. Teresa Banker was promoted to Associate professor and received tenure.

The Kennesaw State University Mathematics Competition is an annual mathematics contest open to all Georgia high school students. Unlike contests sponsored by other Georgia Universities, the Kennesaw State University Mathematics Competition is administered to students at their own high school during or after the school day at no cost. In 2009-10, more than 2000 students from 122 public and private high schools competed in Part I. Students whose Part I scores placed them in the top 10% statewide are invited to compete in Part II. Part II consists of five problems each requiring rigorous proof. The students with the top 30 composite scores from both parts are honored on the KSU campus in the spring.

Part I of the 2010-2011 Kennesaw State University Mathematics Competition will be held on October 27. All Georgia public and private high schools are welcome to participate. For more information, including a link to on-line registration, past problems and solutions, and names of past years' winners, please visit the contest website (<http://math.kennesaw.edu/~ckoppelm>). (Submitted by: Virginia Watson)

Macon State College (Macon, GA)

Awards: Professor Don Brown was awarded the Excellence in Teaching Award for 2010 by MSC's Chapter of the National Society of Leadership and Success. Professor Mary Wolfe received the President's Call to Service Award – Lifetime Achievement Award for more than 4000 hours of service as a volunteer for Mensa. The award was signed by President Obama. Math and Science Week: From June 7th through June

11th, the Math and Science Week was held at Macon State College. In attendance were 20 high school and middle school students along with 2 high school teachers. There were interactive and exciting presentations given by professors of mathematics, biology and physics at Macon State College. The presentation covered topics which often had to do with the presenter's research interests. Overall, the students felt it was a very positive experience.

Hybrid Courses: The department of Mathematics creates hybrid courses for Math 1111 College Algebra and Math 1113 Precalculus using technology to reach today's students.

MSP Grant: Follow-up sessions for the Mathematics and Science Partnership (MSP) Program ran on January 9th and February 27th. The program provides certain Bibb County teachers with instruction in an effort to increase teacher content knowledge and improved classroom practices while forming professional learning communities. The program also ran in the summer from June 28 through July 2 and from July 12 through July 16.

2010 Math Olympics at MSC: Over 250 students from 24 high schools in the Middle Georgia area competed on March 19th at Macon State.

Calculus the Musical: On October 13, the Department of Mathematics at Macon State College hosted the production of "Calculus: The Musical!"-- a dynamic theatrical journey through the concepts and history of calculus with a unique approach to learning. (Submitted by Lily Wang)

Mercer University (Macon, GA)

Dr. Jeremiah Reinkoester, who earned a Ph.D. and M.S. in Mathematics at the University of Iowa and a B.A. in Mathematics summa cum laude at Luther College, has joined the department as an assistant professor. His research areas are commutative algebra and number theory with a focus on factorization and relative primeness.

Dr. Margaret Symington gave a talk titled "From Skin Surgery to Euclidean Geometry" at UNC Asheville on September 22, 2010.

Dr. David Nelson has returned to the department after a year-long sabbatical leave during which he earned a master's degree in statistics at the University of Georgia.

Mathematics major Chris Kirkland, currently a junior, participated in the REU, "Groups, Graphs, and Geometry," held last summer at UNC Asheville. He presented a talk on his work at the MathFest in Pittsburgh.

The co-recipients of the 2010 Riley Plymale Award for Excellence in Mathematics are Chris Cyr and Steven Sumners. The award is presented to the senior

mathematics major whose work has been judged to be exemplary by the mathematics faculty.

The Twenty-Sixth Annual Mercer University High School Mathematics Contest will be held November 13, 2010. More information is available at www.mercer.edu/math/mathcontest/index.html.

The Fourth Biennial Mercer University Undergraduate Research in Mathematics Conference (MUURMaC) will be held February 12, 2011, on Mercer's Macon campus. This conference is for students, faculty, and other mathematicians interested in undergraduate research. We invite submissions for fifteen-minute presentations from undergraduates engaged in the research process. Students are also invited to participate in a friendly, team-based problem solving competition. The conference will take place in conjunction with the Georgia MAA State Lunch. Plenary lectures will be provided by Dr. Robert Bosch from Oberlin College. For more information or to register for either the conference or the GA MAA State Lunch please visit our site at www.mercer.edu/math/muurmac/index.html. (Submitted by Curtis Herink)

North Carolina A&T State University (Greensboro, NC)

Professor Patricia Shelton has retired effective summer 2010, invoking feelings of both gratitude and trepidation among her appreciative colleagues. The gratitude was for the extensive, high quality of service she did for the department in addition to her duties as a mathematics Lecturer. The trepidation came in trying to find a sufficient number of people to replace her in her various roles. She was a faculty member for 31 years. She earned a B.S. and M.S. in mathematics at A&T, and is a dedicated Aggie.

Dr. Bolindra Borah has entered into phased retirement after 42 years of service. He served as chair of the Graduate Applied mathematics curriculum committee for at least half that time and will be greatly missed.

Dr. Barbara Tankersley was tenured and promoted to Associate Professor, effective July 2010. Dr. Gregory A. Gibson was tenured and promoted to Associate Professor, effective July 2010. Dr. Barbara Tankersley is the new head of advising in the department of mathematics, replacing Patricia Shelton. Dr. Nicholas Luke, and Dr. Liping Liu are the new freshmen advisers. Dr. Alexandra Kurepa is the new head of Graduate Applied Mathematics Curriculum Committee, replacing Dr. Borah. Dr. Giles Warrack is the head of the Mathematics Department Curriculum Committee, which coordinates all the curricula. Dr. Dominic Clemence is the new chair of the Mathematics Department's Reappointment, Promotion, and Tenure Committee.

New appointments include Adjunct Lecturers

Ms. Alicia Williams and Dr. Richard Noble.

Beginning this semester, A&T adjunct faculty, including those in the mathematics department, will have to go through the same reappointment procedure as tenure-track faculty, which includes submitting a portfolio to be evaluated in three broad areas. The committee establishing these standards include Dr. Kathy Cousins-Cooper, Dr. P. Varatharajah, and Dr. Shea Burns.

There are two new National Science Foundation (NSF) grants in the Mathematics Department: Dr. John P. Roop was awarded an NSF Grant "Model Reduction of Complex Fluid Flows," NSF DMS-1016591, \$83,389. Dr. Roop continues to be active in other research grants, in addition to mentoring undergraduate and graduate students. Dr. Y. Rastigejev (PI and the center Director) and Dr. Guoqing Tang (co-PI) were awarded NSF grant, "HBCU-RISE Center for Advanced Multi-scale Computational Algorithms (AMCA)", 10/01/10- 09/30/13, \$ 999,452. Dr. Tang is interim chair of the Mathematics Department.

A large contingent of mathematics faculty are serving as content mentors to middle school mathematics teachers through an NSF research grant "Content Mentoring and Its Impact on Middle Grades Mathematics and Science Teachers' Effectiveness" held by the A&T School of Education. The PI and Co-PI's of the grant are Dr. David Boger, Dr. Jane Davis, and Dr. Robin Liles of the School of Education. This is the fourth year of the grant. Participating in this year's program are Dr. Kurepa, Dr. Yaw Kyei, Dr. Katrina Staley, Dr. Tankersley, Dr. Thomas Redd, Dr. Oldham, Dr. Minxiang Chen, Dr. Kossi Edoh, Dr. Amal El Moghraby, Dr. Cousins-Cooper, and Dr. Bampia Bangura. Past participants included Dr. Roop and Dr. Legun Emannwori. Science and engineering faculty also assist in this grant. The expectation is that faculty will maintain weekly contact with their mentees, assisting as the mentee requires, and will attend two local meetings held by the School of Education, called 'Drive-Ins'.

Annual Events include The Gilbert and Patricia Casterlow Scholarship annual fund raiser, which takes place every October, and is supported by Dr. Casterlow's colleagues in the mathematics department through annual giving to the United Way and through attendance and donations at the annual fundraiser. Dr. Casterlow is Emeritus Professor. The Department of Mathematics held its annual Math Awareness Day in April 2010 as part of the national observance of Math Awareness Month. The event was organized by the Dr. Kurepa. She has continued its focus as being a student conference, with NCA&T graduate student presentations as well as undergraduate paper and poster sessions. The Math department again hosted high school students participating in the state high school math contest the last Thursday in March. NCA&TSU is a regional site. Dr. Ban-

gura coordinated the effort. Dr. Bangura was assisted by the Dr. Burns, NCA&T chapter of the NCCTM, Pi Mu Epsilon members, and faculty volunteers. (Submitted by Dr. Janis M. Oldham)

North Georgia College & State University (Dahlonega, GA)

Dr. Brad Bailey and Dr. Karen Briggs were both promoted to Associate Professor. Dr. John Holliday and Dr. Dianna Spence were both tenured. Drs. Brad Bailey, Karen Briggs, and Tom Cooper are starting the second semester of a 1-year grant from the Educational Advancement Foundation to investigate the effectiveness of teaching precalculus using the Moore Method.

Drs. Brad Bailey and Dianna Spence obtained a 4-year grant from the National Science Foundation. The title of the grant is "Discovery Learning Projects in Elementary Statistics". The project is a "Type II" grant, an extension of a study previously funded by the NSF under the direction of Drs. Robb Sinn and Dianna Spence. Drs. Tom Cooper, Sherry Hix, and Marnie Phipps will also be senior project personnel on the new grant. (Submitted by Dianna Spence)

Pellissippi State Community College (Knoxville, TN)

This fall the Mathematics Department welcomes two new full-time, tenure-track faculty members, David Fey and Michael Minic. Fey is a former project engineer with MBA from Northwestern University and M.S. in mathematics from University of Houston, Clear Lake. He has taught for approximately ten years as an adjunct and visiting lecturer. Minic earned the M.S. in mathematics at Middle Tennessee State University and has ten years of teaching experience at Hiwassee College.

Associate Professor Carolyn Renier retired in May 2010, after 20 years of outstanding service to the College in both full-time and adjunct positions.

Congratulations to Sue Ann Dobbyn who was promoted to Assistant Professor and to Daryl Thomas for promotion to the rank of Associate Professor.

The Tenth Annual Pellissippi State Middle School Mathematics Competition attracted more than 550 competitors from 29 middle schools throughout East Tennessee. The Bowl was sponsored by Oak Ridge Associated Universities (ORAU) and coordinated by Associate Professor Jonathan Lamb. ORAU has increased its contribution to the College Foundation to support the 2010-2011 Mathematics Department competitions and other activities to encourage student interest in mathematics. (Submitted by Catherine Williams)

Roane State Community College (Harriman, TN)

We welcome Eric Bouldin (B.S, Engineering-

Vandy, M.S. Mathematics, TTU) and Jennifer Wrasman (B.S. and M.S. Mathematics, MTSU) to our faculty this year.

Mr. Ben King has become the Director of The Learning Center and continues to teach a math course each semester. He is also leading the charge for the redesign of our Developmental Studies slated to commence next fall. Dr. Pat Bailey, Dr. Pat Brown, Ms. Betty Denison, Dr. Ed Smith and Ms. Billy Smith are now in a post-retirement status and are teaching a half-load of courses. Ms. Becky Howard has completed her post-retirement obligation, but continues to teach an occasional course for us. We continue to offer dual studies mathematics in the local high schools. Ms. Jill Denton, who is the site director for the annual TnMathTeachersAssoc high school math contest, was recently granted tenure and promoted to the rank of Assoc. Professor. (Submitted by Larry Bouldin)

Southern Polytechnic State University (Marietta, GA)

Simon Stricklen, Professor Emeritus and former Department Head, died this past June. (Submitted by Steven Edwards)

Spelman College (Atlanta, GA)

Dr. Gladys T. Glass retired after 50 years of service to the department and college. An appreciation reception was held in her honor on April 22, 2010. The department also held the inaugural Gladys T. Glass Annual Mathematics Education Symposium (GGAMES) on October 29, 2009, in honor of Dr. Glass's service. The symposium brought together mathematics teachers at all levels to discuss the importance, and some of the challenges, of mathematics education today.

The department held its sixth annual Etta Z. Falconer Mathematics Lecture in April 2010. The speaker was Dr. Kim Woodson Barnette (Spelman class of 1992), CEO and Managing Partner of Delta Decisions of DC, LLC, an operations research consulting company.

StatFest 2010, a one-day conference aimed at encouraging undergraduate minority students to pursue careers and graduate studies in the statistical sciences, was hosted by the department on September 25, 2010. The conference, an ongoing initiative of the American Statistical Association's Committee on Minorities in Statistics, was organized by Dr. Nagambal Shah and chaired by Dr. Shah and Dr. Brian Millen of Eli Lilly and Company.

Dr. Sylvia Bozeman was selected as a Fellow by the American Association for the Advancement of Science for her efforts to enhance diversity by providing educational and mentoring opportunities to underrepresented students in mathematics, particularly at the doc-

toral level.

In September 2009, Dr. Sylvia Bozeman spoke at an MAA Congressional Briefing, along with Dr. Carlos Castillo-Chavez from Arizona State University and MAA President David Bressoud, calling for greater federal funding to increase the participation of underrepresented minorities in science, engineering and mathematics.

Dr. Nagambal Shah was named a 2010 Fellow of the American Statistical Association "for indefatigable service to the profession as an educator and advocate for diversity; for mentoring undergraduate and graduate students; for leadership in and service to the ASA; and for initiation of StatFest".

Dr. Colm Mulcahy gave the MAA Lecture for Students, at Mathfest 2009 in Portland, Oregon in August 2009. On September 24, 2010, Dr. Mulcahy was the Keynote Speaker at the Tennessee Mathematics Teachers Association/Mathematics Teachers of Tennessee Northwest Fall Conference, which took place at the University of Tennessee at Martin. He will also be giving the Sixth Annual Claude B. Dansby Lecture at Morehouse College on October 21, the same day he's giving a public lecture on the life and legacy of Martin Gardner at Georgia Institute of Technology. Also, several of Dr. Mulcahy's puzzles and card tricks were featured in the New York Times.

Dr. Monica Stephens Cooley is co-PI of two grants: a 3-year NSF grant entitled Spelman STEM Scholars (S3) program and a NASA grant entitled The Spelman/Salem STEM (S3) Mentoring Program.

Dr. Mohammed Tesemma received tenure and promotion to Associate Professor.

Morgin Jones (Spelman class of 2006), who has a master's degree from Hampton University and Victoria Frost (Spelman class of 2007), who has a master's degree from the University of Arizona, started temporary full-time faculty positions in the department this year.

Dr. Jeffrey Ehme began a term as department chairperson beginning in August. Dr. Ehme previously served as chair from 2000 to 2003. (Submitted by Yewande Olubummo)

Union University (Jackson, TN)

The Union University Department of Mathematics welcomed Dr. David Neuhouser, Professor Emeritus of Mathematics at Taylor University (IN), as their fall colloquium speaker on Tuesday Oct 12, 2010. His talk entitled "Many Dimensions" discussed how the idea of higher dimensions is not only a fruitful concept in mathematics, but also is the basis for theories in modern physics, and moreover has been used in literature (e.g. Edwin Abbott, C. S. Lewis, and Madeline L'Engle) and in theology.

The department has two new full-time tenure-track faculty members: George Moss (Ph.D, Virginia Tech) Associate Professor of Mathematics, comes to Union after serving at University of Virginia-Wise and Lambuth University. Michelle Nielsen (Ph.D, University of Minnesota) Assistant Professor of Mathematics, comes to Union after recently completing her doctorate degree. (Submitted by Matt D. Lunsford)

University of North Carolina Asheville (Asheville, NC)

The Mathematics Department at UNC Asheville welcomes our new faculty member Janine Haugh. Janine comes to us from NC State where, last July she defended her PhD thesis titled "Modeling Cartilage Regeneration in the Extracellular Environment of Cell-Seeded Scaffolds." Janine will be helping to build our Applied Mathematics program.

We are proud to announce that our NSF-REU program, directed by Patrick Bahls, was funded for another three years. The REU program has now run for four summers and has generated over 50 student presentations at national and regional math conferences, as well as, six research papers.

We have continued our many outreach programs. This year we had our third Math Summit, a one day conference for math educators, students, parents, and administrators. The main speaker was Ken Keeler, a producer and writer for the TV shows Futurama and the Simpsons. We will also be running a two day conference on Constrained Poetry, linking Math and Poetry. This conference will be held on November 19 and 20. Our Parsons lecture last year was a great success. Stan Wagon, from Macalester College, gave a wonderful talk about some surprising elementary mathematics results. This year's speaker, Ed Burger from Williams College, will present a talk titled "Monkeys, Mathematics, and Mischief: What are the lifelong lessons of education?" This talk is scheduled for March 24, at 7pm. (Submitted by Dave Peifer)

University of South Carolina Aiken (Aiken, SC)

In 2010 several of our faculty in Mathematics were promoted: Dr. Rao Li, promoted to Full Professor; Dr. Zhenheng Li, promoted to Associate Professor, and awarded Tenure; and Cindy Gonzalez, promoted to Senior Instructor. (Submitted by Reginald Koo)

University of South Carolina (Columbia, SC)

Personnel: Appointments: The department welcomes Kevin Milans, a 2010 Ph.D. from the University of Illinois at Urbana-Champaign. Kevin is a visiting assistant professor; his research is in the area of combinatorics

Promotions: Josh Cooper and Adela Vraciu

were promoted to the rank of associate with tenure.

Sabbaticals: Eva Czabarka (Fall, 2010); Lili Ju, Matthew Miller, Laszlo Szekely (all year).

Events: USC will host the 14th meeting of the Palmetto Number Theory Series (PANTS) December 4 and 5, 2009. Plenary speakers include Michael Bennett (U. British Columbia), Chantal David (Concordia U.), Kevin Ford (U. Illinois), Cameron Stewart (U. Waterloo). For more information, see <http://www.math.sc.edu/~boylan/seminars/pantshome.html>. The University of South Carolina 24th High School Math Contest will be held Saturday, February 5, 2011. For more information, see <http://www.math.sc.edu/contest/2010-2011/>. USC will host "Commutative Algebra in the Southeast", March 18 - 20, 2011. Plenary speaker is David Cox, Amherst College. For more information, see <http://www.math.sc.edu/~kustin/seminar/CommutativeAlgebraInTheSoutheastMeetingsColumbiaSpring11.html>.

Awards: The USC Mungo Graduate Teaching Award was given to Prof. Michael Filaseta. USC Educational Foundation Research Award in Science, Mathematics, and Engineering was given to Prof. Pencho Petrushev.

Undergraduate Student Awards: Outstanding student in math education: Kristen Brooke Carver. Outstanding student in mathematics: Joseph Montoya. James Bruce Coleman Scholarship: Melisa Texin. Thomas Markham Scholarship: James Manning. Polston Family Scholarship: Rachel Graves. Wyman L. Williams Scholarship: Andrew Shore. Jeong S. Yang Award: Kristen Brooke Carver, Dominik Gothe, Eric Mathews, Joseph Montoya, Bradley Setzler. Pi Mu Epsilon Award: Brittany Gunn. Rising Senior Mathematics Scholarship: Madison Claire Miller. Hudson Harper, Jim Manning, Joey Montoya, and Luke Whiteside took first place in Math Jeopardy at the Southeastern MAA Conference in Elon, NC on March 26-27, 2010. The list of 2010 NSF Graduate Research Fellows includes graduating seniors Joey Montoya and Bradley Setzler. Andrea Moore earned a Knowles Science Teaching Fellowship in Mathematics. Andrea, a 2009 USC math graduate program, is currently enrolled in the M.T. program in USC's School of Education. This is the sixth consecutive year that a student in our program has received this honor. Joseph Montoya, received an Honorable Mention In USA Today's Annual College Academic Competition. (Submitted by Matthew Boylan)

University of the South (Sewanee, TN)

Becca Stevens, Class of '85, will be honored at Sewanee's Homecoming this year with the Distinguished Alumna Award. She will be the youngest recipient of this award and its first female recipient. Becca has been the prime mover behind the founding

and support of Magdalene House, a successful residential community in Nashville for women who have survived lives of prostitution, violence, and abuse. Becca, who majored in mathematics while attending Sewanee, is now a priest in St. Augustine's Chapel at Vanderbilt University.

Also to be featured at Homecoming will be Ross Sowell, Class of '05, who will give our Annual Homecoming Lecture on a topic in computer science. Ross is working on a Ph.D. degree in computer science at Washington University in St. Louis.

The Moore-method notes by James T. Cross, retired professor of mathematics, which were made available on the internet last year, have been accepted for publication by the Journal of Inquiry-Based Learning in Mathematics. When published, Cross's notes, entitled "A Do-It-Yourself Introduction to Number Theory," will be freely downloadable from this journal.

This past summer Tori Salekin worked on research at Sewanee with Lucia Dale, while Nels Oscar worked with Stephen Carl. Both Tori and Nels were supported in their computer science projects by the new McGriff-Bruton internship fund. Claire Merriman and Anna Tracy attended REU's over the summer at Carleton College and at MSRI in Berkeley, respectively. The senior Hooke Prize in mathematics was awarded to Thu Le.

We have fourteen rising juniors who have signed up to major in mathematics.

Matthew Rudd has joined the mathematics faculty in a tenure-track position, coming to us from the University of Idaho. Matthew graduated from Wake Forest University, received a master's degree from the University of Chicago, and a doctorate from the University of Utah. Joel Cunningham will return next year to a full-time position in mathematics after spending sabbatical leave this academic year at the Courant Institute. Joel served as vice-chancellor for ten years. Fred Croom plans to spend his forthcoming sabbatical leave in Italy this spring.

In September of 2010 Mike Starbird gave our Annual Ebey Lectures. He spoke on geometric gems and, for a talk aimed at the general public, discussed the fourth dimension. Both talks were enthusiastically received.

Our department has stumbled upon a good idea that others may wish to copy. Having inherited a large display case upon moving into an area formerly occupied by the sciences, we decided to try to populate the case with books published by former majors and by former and current faculty. This led to a lot of e-mails, resulting in donations of a respectable number of books (and papers, too). Many alumni have thus learned that they are still well remembered and appreciated by their former instructors, and we in turn have been rewarded

with a nice display of work that might serve to inspire our current students to greater heights. (Submitted by William Priestley)

Wake Forest University (Winston Salem, NC)

Several new people have joined the Wake Forest Mathematics Faculty. Sarah Mason, who studies combinatorics, comes to Wake Forest as an Assistant Professor after a postdoc year at the University of California, San Diego – her Ph.D. is from the University of Pennsylvania, and she has taught at Davidson College. Jeremy Rouse, a number theorist with a Ph.D. from the University of Wisconsin and a postdoc at the University of Illinois is also a new Assistant Professor. Xiaofei Hu, a new Ph.D. from Syracuse University who studies numerical analysis, is a new Teacher-Scholar Postdoctoral Fellow. We have also hired Frank Moore, a commutative algebraist with a Ph.D. from the University of Nebraska, and Frank will join us as an Assistant Professor in Fall 2011 after he completes his postdoc at Cornell University.

Hugh Howards was promoted to Professor, and Sarah Raynor was granted tenure and promoted to Associate Professor.

Jason Parsley won the Southeastern Section Award for Distinguished Teaching by a Beginning College or University Mathematics Faculty Member; the award was announced at last spring's section meeting at Elon College.

Jennifer Erway is on a research leave for Fall 2010; she is visiting several universities in California. Jennifer and her coauthor Roummel Marcia won the "Best Paper Award of The 2010 International Conference of Applied and Engineering Mathematics" for their paper: "On Solving Unsymmetric Tridiagonal Systems Without Interchanges".

Ravi Vakil of Stanford University will give Wake Forest's Gentry Lectures on Monday and Tuesday, April 4 and 5, 2011. (Submitted by Ellen Kirkman)

Wofford College (Spartanburg, SC)

The college approved a change in the mathematics major; students may now earn a traditional math major, a math major with a concentration in pure mathematics, a math major with a concentration in applied mathematics, or a math major with secondary certification. The department welcomes three new part-time faculty: M.B. Ulmer, recently retired from USC-Upstate; Myra Soderlund, and David Ott. This fall, the department is conducting a search for two tenure-track positions, one in pure mathematics and one in statistics or applied mathematics; the two positions we seek to fill include one new position and one replacement position as Dr. Lee Hagglund has announced that he intends to retire at the end of the 2011-2012 academic year.

CALL FOR NOMINATIONS FOR THE 2011 SOUTHEASTERN SECTION DISTINGUISHED SERVICE AWARD

The Southeastern Section presents a Section Distinguished Service Award at the annual spring meeting each year. A member of the Section who has made outstanding contributions at the Section level will be so honored at the 2011 meeting at the University of Alabama in Tuscaloosa, Alabama.

The Section Distinguished Service Award Committee encourages every member of the Section to submit a nomination for the 2011 award. Please send your nomination including a statement supporting the nomination to Ben Klein, chair of the selection committee, via surface or e-mail. [Ben Klein, Chair, MAA Service Award Committee, PO Box 1713, Davidson, NC 28036 or, beklein@davidson.edu. Telephone: 704-892-8306]

Nominations for the 2010 award may be carried forward for consideration for the 2011 award, if the nominator so desires. If so, a letter that reaffirms and updates the previous nomination is requested from the nominator. If you know that someone has already been nominated, it is altogether appropriate to either nominate the person yourself and/or to submit materials in support of the existing nomination.

DEADLINE FOR SUBMISSION OF ALL MATERIALS: January 1, 2011

The Section Distinguished Service Award has been awarded in even-numbered years, beginning in 1990, then annually, since 1997.

Previous Service Award Recipients

April 1990	Trevor Evans, Emory University
April 1992	Billy F. Bryant, Vanderbilt University
April 1994	James G. Ware, University of Tenn. at Chattanooga
April 1996	Marcellus Waddill, Wake Forest University
March 1997	John Kenelly, Clemson University
March 1998	David Stone, Georgia Southern University
March 1999	M. F. Neff, Emory University
March 2000	Tina Straley, MAA Executive Director
March 2001	Charles Cleaver, The Citadel
March 2002	Sharon Cutler Ross, Georgia Perimeter College
March 2003	Sylvia Trimble Bozeman, Spelman College
March 2004	Theresa E. Early, Appalachian State University
March 2005	Hugh Haynesworth, College of Charleston
March 2006	Stephen Davis, Davidson College
March 2007	Joel Brawley, Clemson University
March 2008	Benjamin G. Klein, Davidson College
March 2009	Walter M. Patterson, Lander University
March 2010	Ray E. Collings, Georgia Perimeter College

This past summer, a number of our majors completed internships or research experiences. Mitch Worley, a senior applied math and chemistry major, worked with Dr. Jane White, a mathematical biologist at the University of Bath; Mitch applied optimal control theory to investigate how a screening program could be implemented to minimize the economic costs of Chlamydia infection in a population. Corey Gelbaugh, a senior math major with a concentration in applied mathematics and a concentration in pure mathematics, worked with Dr. Steve Erfle, an economics professor at Dickinson College in Pennsylvania; Corey applied the concept of focal point from game theory to analyze childhood motivation in physical fitness testing. Andrew Strasburger, a

sophomore math major, worked with Dr. Jeff Borckardt at the Medical University of South Carolina; Andrew's work was partially funded by the S.C. Space Grant Consortium. Andrew's research focused on Transcranial Magnetic Stimulation motor mapping as an integral part of the manned missions to Mars. Allison Tolbert, a junior math major, participated in the NSF-funded Research Experience for Undergraduates at Marshall University in West Virginia. Allison worked with Dr. Rudolf Burell on a computational chemistry project modeling covalent and non-covalent interactions that describe a certain chemical reaction. (Submitted by Charlotte Knotts-Zides)

**2011 MAA-SE Award For Distinguished Teaching By A Beginning
College Or University Mathematics Faculty Member
Nomination Process**

Brief Description: The MAA Southeastern Section (MAASE) established this award to honor beginning college or university faculty whose teaching in the Section has been extraordinarily successful and whose effectiveness in teaching undergraduate mathematics is shown to have influence beyond their own classrooms. An awardee must have taught full time in a mathematical science in the Southeastern Section for at least two years, but not more than a total of seven years in any collegiate institution. Each year at most one college or university teacher is to be honored with this MAASE section award. Nominations for the award may be made by any member of the MAASE section.

A complete nomination packet should consist of a nomination form, a narrative, additional documentation, and letters of recommendation as described below. Please mail the completed packet to arrive by Monday, January 24, 2011 to:

David Stone
P. O. Box 8093, Department of Mathematical Sciences
Georgia Southern University
Statesboro, GA 30460-8093

Questions may be directed to David at dstone@georgiasouthern.edu or at 912-478-5335.

Eligibility and Guidelines for Nomination

Eligibility

Teaching is intended to include classroom instruction as well as activities outside the classroom, such as working with student groups, preparing students for mathematical competitions, directing undergraduate students in research in mathematics, directing students in the preparation of honors theses, preparing teaching materials used by others, etc.

Nominees must:

- Hold the terminal degree required by SACS to be a full time faculty member in a collegiate institution ,
- Be college or university teachers currently in the MAASE who have taught full time in a mathematical science in the Southeastern Section for at least two years, but not more than a total of seven years in any collegiate institution (In determining eligibility, we do not count time spent in a postdoctoral position where nearly all the nominee's time was spent on research, and the nominee did very little or no teaching (e. g. three semester courses a year or less).), and
- Hold membership in the Mathematical Association of America.

Guidelines for nomination

Nominees for the award may be made by any member of the MAASE section.

Nominees should:

- Be recognized as extraordinarily successful in their teaching
- Have effectiveness in teaching undergraduate mathematics that can be documented
- Have had influence in their teaching beyond their own classrooms

A nomination for this award should consist only of the materials requested below, and should not include any other materials, such as curricula vitae or other items. Please prepare all nomination materials on one side only of 8.5 by 11 inch paper, with a type size no smaller than 12 points (pica).

Nomination Form

A completed **Nomination Form** is the first part of the packet. The nomination form appears on Page 26 of this newsletter.

Narrative

Please describe the nominee's extraordinary success in teaching by providing a narrative of the nominee's background, experience, teaching style, special contributions, other teaching awards, and any additional evidence of the nominee's unusual achievement in teaching. Note especially effectiveness in teaching undergraduate mathematics and influence beyond the nominee's own classrooms. The narrative should not exceed five double-spaced pages.

Additional Documentation

Please submit no more than three pages of further evidence to document the nominee's extraordinary teaching success. This documentation will vary greatly from institution to institution, but may include summaries of peer or student evaluations, comments on teaching, possible increases in numbers of majors in mathematics (with clear evidence of the nominee's substantial responsibility for them), possible student success in mathematics competitions (with clear evidence of the nominee's substantial responsibility for them), success in research in mathematics conducted by undergraduate students under the direction of the nominee, production of superior quality honors theses by undergraduate students under the direction of the nominee, development of curricular materials successfully used by colleagues, adoption of the nominee's teaching methods or techniques by experienced colleagues, service as a respected adviser for a student group, etc.

Nominators should bear in mind that the selection committee might view a nomination more positively if it is accompanied not just by carefully chosen testimonials from a few selected students and faculty, but also by reports, comments and criticism which is representative of the whole spectrum of opinion among students and faculty on the nominee's teaching.

Letters of Recommendation

Please include no more than five letters of recommendation, as follows:

- Two letters from the nominee's present or former students.
- Two letters from the nominee's colleagues (one of whom could be the department chair).

One additional letter from any one qualified to comment on the nominee's extraordinary teaching success.



**MAASE Award for Distinguished Teaching by a Beginning
College or University Mathematics Faculty Member**

NOMINATION FORM

To be submitted by January 24, 2011

PLEASE TYPE

Nominee's Name (First name first):	
College or University Affiliation:	
College or University Address:	
Nominee's email address:	
Is the nominee a current member of the Mathematical Association of America? (only members of the MAA are eligible for the Award)	Year joined _____
Nominee's number of years teaching experience in a mathematical science (at least two years, not more than seven)	Number _____ Year _____ to Year _____
Graduate Degree earned in mathematical sciences:	Degree _____ Area of Specialty _____
List the years and where the nominee taught full time in a mathematical science in the Southeastern Section (at least two needed)	Years _____ Location _____

Please describe on no more than one page of 12 point type, double-spaced, the unusual personal and professional qualities of the nominee that contribute to his or her extraordinary teaching success, and attach.

Name of nominator (First name first):	
Address:	
Telephone:	
Email address:	
Signature:	
Date:	/ / /

CALL FOR NOMINATIONS FOR THE 2011 SOUTHEASTERN SECTION DISTINGUISHED TEACHING AWARD

Nominations for the 2011 Southeastern Section Award for Distinguished College or University Teaching of Mathematics are now being accepted. The Southeastern Section selection committee will choose the winner of this award from the pool of nominees, and the winner will be honored at the Spring 2011 meeting of the Section at the University in Alabama., Tuscaloosa. The winner will also be widely recognized and acknowledged within the Section and will be the Section's official candidate for one of the three Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics that will be presented in January 2012.

Nomination materials and a description of the complete nomination packet are included in this Newsletter. Each member of the Section is encouraged to consider submitting a nomination to Ron Gould, chair of the selection committee. If you wish to nominate someone, please submit a complete nomination packet by December 1, 2010.

Nomination packets for persons nominated for the 2010 award may be carried forward for consideration for the 2011 award, if the nominator so desires. The selection committee will contact nominators to determine whether they wish to submit a revised nomination to the selection committee.

Previous Teaching Award Recipients

The section has presented the Award for Distinguished College or University Teaching of Mathematics each year since 1992. Past Recipients Are:

1992	Anne Hudson, Armstrong State University
1993	Robert Bryant, Duke University
1994	John Neff, Georgia Institute of Technology
1995	Sylvia Bozeman, Spelman College
1996	Carl Pomerance, University of Georgia
1997	Harold Reiter, Univ. of North Carolina at Charlotte
1998	Ben Klein, Davidson College
1999	Joel Brawley, Clemson University
2000	Theodore Shifrin, University of Georgia
2001	Johnny Henderson, Auburn University
2002	Ronald Harshbarger, Univ. of South Carolina, Beaufort
2003	Sue E. Goodman, University of North Carolina, Chapel Hill
2004	Jeff Knisley, East Tennessee State University
2005	David Stone, Georgia Southern University
2006	William "Mac" Priestly, the University of the South
2007	David Sumner, University of South Carolina, Columbia
2008	Ronald Gould, Emory University
2009	Hugh Howards, Wake Forest University
2010	Martin Jones, University of Charleston

**Award for Distinguished College or University Teaching of Mathematics
Nomination Form**

Please type.

Nominee's Name (first name first): _____

College or University Affiliation: _____

College or University Address: _____

City: State: ZIP: _____

Nominee's number of years teaching experience in a mathematical science: _____

Has the nominee taught at least half time in a mathematical science during the current academic year or during the previous year if on approved leave or sabbatical? _____

In the space below, please describe briefly the unusual personal and professional qualities of the nominee that contribute to his or her extraordinary teaching success.

Name of nominator (first name first): _____

Address of nominator: _____

Telephone: _____ Email: _____

Nominator's Signature: _____ Date: _____

ANNUAL SECTION MEETING INFORMATION

**Ninetieth Annual Meeting
Mathematical Association of America, Southeastern Section
The University of Alabama, Tuscaloosa**

Friday – Saturday, April 1-2, 2011

**Ninetieth Annual Meeting
Mathematical Association of America, Southeastern Section
The University of Alabama**

Friday – Saturday, April 1 - 2, 2011

Meeting Announcement: The ninetieth annual meeting of the Southeastern Section of the Mathematical Association of America will be held on Friday and Saturday, April 1 – 2, 2011 at The University of Alabama in Tuscaloosa, Alabama. The Association invites all interested persons to participate and asks that department chairpersons, faculty, and members of the Section help in publicizing the meeting. Attendees may pre-register (and pay!) online through the meeting website at <http://bama.ua.edu/~jgleason/MAA11/>. On-site registration will also be available. Up-to-date information about the conference (program, registration, accommodations, transportation, etc.) is maintained at the conference web site, which is accessible through the Section web site <http://www.maa.org/southeastern>.

General Sessions: There will be three general sessions with four speakers on Friday and Saturday:

- **Doug Ensley**, Shippensburg University, Second Vice-President of the MAA
- **John Mayer**, Univ. Alabama Birmingham, 2010-2011 Section Lecturer
- **Martin Jones**, College of Charleston, 2010 Section Teaching Award Recipient
- **Jason Parsley**, Wake Forest University, Recipient of the 2010 Section Teaching Award for Beginning Faculty

Short Courses and Workshop: There are three excellent short courses and an excellent workshop on Friday morning for which there is a separate registration fee which can also be paid through the meeting website. These courses are:

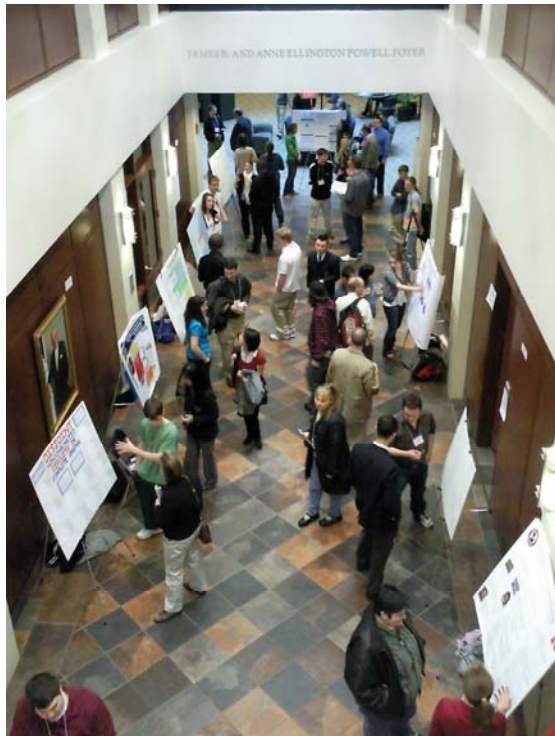
- *Walking in the Mountains - The Steepest Descent Method*, Ben Ntatin (Austin Peay State University)
- *RSA and Beyond: An Introduction to Cryptology*, Jeffrey Ehme (Spelman College)
- *Teaching with a Digital Text*, Lang Moore and David Smith (Duke University)
- *Hands-On Activities To Encourage Student Engagement In Exploring Mathematics*, Carroll Wells and Gary Hall (Lipscomb University)

A fuller description of the short courses, including abstracts, is given at the end of this announcement as well as on the conference web site.

Call For Contributed Papers: The officers of the Section invite and encourage submission of titles and abstracts for fifteen-minute (20 minutes between the start of one talk to the start of the next) contrib-

Continued on page 32

Student Activities at the MAA SE Section Meeting April 1-2, 2010



Undergraduate Student Presentations and Poster Session

**Poster Session Saturday a.m.
Talks throughout meeting**

Present your research in a talk or with a poster. Abstracts for talks and posters can be submitted through the meeting website.

Contact Catherine Matos (cmatos@clayton.edu) or Sarah Mason (sarahkmason@gmail.com) for more information.

Math Jeopardy

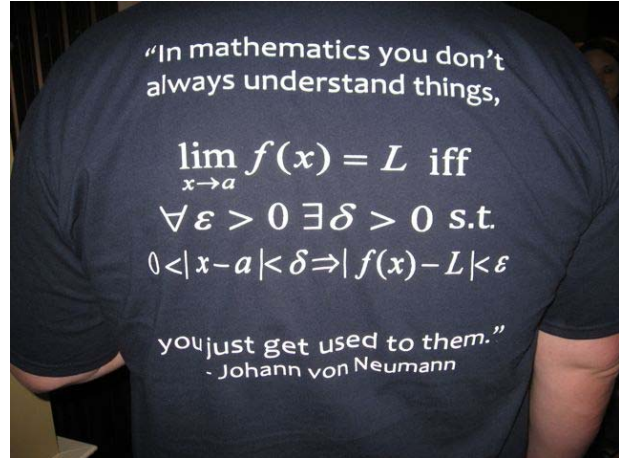
**Preliminary and semifinals
Friday a.m.
Finals Saturday noon**

Teams of 3-4 undergraduate students compete in this classic game, with clever questions (oops, answers) from calculus and other courses in the first two years of the mathematics curriculum. Register in advance by contacting Ron Taylor (rtaylor@berry.edu).



Math T-shirt Contest

Show off your geek chic. A prize will be awarded to the undergraduate math club or Jeopardy team with the best mathematically-themed T-shirt. All Jeopardy teams will be considered automatically. Other groups can register for the contest by contacting Laurie Heyer ([lahey@davidson.edu](mailto:lahey@ davidson.edu)).



Graduate School and Career Fair Friday noon

Is graduate school in your future? Need a job? Meet with representatives of graduate programs and employers.

- Pizza lunch (free for students)
- Networking
- Door prize raffle for students

Graduate programs and employers should contact Laurie Heyer (lahey@davidson.edu) to register.

Treasure Hunt Thursday p.m.

Arrive to the meeting early for fun activities and mathematical puzzles. Meet students from all over the Southeastern Section of the MAA. Contact Julie Barnes (jbarnes@email.wcu.edu) to participate.



Meeting Information (continued from page 29)

uted papers in all areas of mathematics by college and university faculty, graduate students, undergraduates, and others. Abstract submissions can be made through the meeting website beginning in November or by sending the information to the Program Chair (Pat Humphrey, phumphre@georgiasouthern.edu) before **Tuesday, March 1, 2011** in order for the abstract and title to appear in the printed program of the meeting. It will be very helpful if individuals send this information in advance of this deadline. Talks will be scheduled in concurrent sessions and organized, to the extent possible, by the general mathematical area indicated by the abstract. There will also be special sessions (descriptions are included in this Newsletter) for selected mathematical areas:

- *Quantitative Literacy*
 - *Mathematics in Sports and Games*
 - *Discrete Mathematics*
 - *Writing in Mathematics*
 - *Using Tablets and other Devices in Teaching Math*
 - *Presentations by Beginning Faculty*
 - *Geometry*
 - *Wavelets and Finite Frames*
- The Mathematics of Magic, Puzzles, and Games*

Guidelines for Titles and Abstracts: Abstracts are expected to deal with theory, application, teaching, history, or philosophy of mathematical sciences; they should indicate what the presenter intends to communicate in the allotted time. For multiple authors, the presenting author's name should be clearly designated; please identify undergraduate and graduate student authors. The use of special symbols should be made judiciously.

Graduate Student/Faculty Poster Session: New this year! Friday morning, we invite graduate students and faculty to present their research in a poster session.

Undergraduate Poster Session: Students are encouraged to present research and results of special projects in poster format. The session is scheduled for Saturday morning, concurrent with contributed talks. Abstracts can be submitted using the URL address (<http://apexcs2.apsu.edu/maases/abstract>) or by contacting the organizers Sarah Mason (sarahkmason@gmail.com) or Catherine Matos (Clayton State, cmatos@clayton.edu) by **Tuesday March 1, 2011** to ensure that an easel or trifold will be available for your poster.

Math Jeopardy Contest: Teams of three or four undergraduates will compete in a mathematical version of the well-known answer-and-question game. Competition is limited. There is a \$25.00 registration fee for each team. Topics will include calculus (single and multi-variable), linear algebra, differential equations, and discrete mathematics. The preliminary rounds for Math Jeopardy will be scheduled on Friday morning from 8:00-12:00. To register a team or to find out more, contact Ron Taylor (rtaylor@berry.edu).

Project NExT-SE: Project NExT-SE (New Experiences in Teaching) is the Southeastern MAA Section's version of the national program for new and recent PhD's in mathematical sciences interested in improving the learning and teaching of undergraduate mathematics. We will be recruiting a new class this year. Activities on Thursday afternoon are planned as well as sessions on Friday morning. Contact Martha Allen (Martha.allen@gcsu.edu), Patrick Bahls (pbahls@unca.edu), Ron Taylor

(rtaylor@berry.edu), or Karen O'Hara (kohara@highpoint.edu) for more information.

Treasure Hunt: On Thursday evening (March 31), there will be a Mathematics Treasure Hunt for students and their advisors. Students will use mathematics to solve clues and look for a “treasure.” This is a fun, non-competitive event that will give students an opportunity to meet and work with students from other colleges and universities. It is also greatly appreciated if math club advisors would be willing to help at this event. If you have any questions or would like to volunteer to help, please contact Laurie Heyer (lahey@dauidson.edu). Check-in is between 7:00pm and 7:30pm in the lobby of Bryant Conference Center with the event starting at 7:30pm.

Graduate School and Career Fair: In this venue, students considering graduate school in mathematical sciences have opportunities to meet with representatives of various graduate programs. In addition, those seeking jobs in industry, business or government in the mathematical sciences can meet with potential employers. Faculty mentors are also welcome. Pizza will be served (free for students), and a raffle will be held for students visiting the exhibits. Representatives of graduate programs should contact Laurie Heyer (lahey@dauidson.edu) by March 1 to register their participation (\$25 fee payable to UA).

Math T-shirt Contest:

The best mathematics T-shirt at the meeting will be recognized with an announcement, a certificate, and a featured picture in the fall newsletter. Get your Math Club organized now for a great T-shirt in the spring.

Chairpersons' Meeting and Liaisons' Luncheon: The Chairpersons' meeting, scheduled for 10:30 to 12:00 on Saturday, is an opportunity for discussion of issues confronting the departments. Bruce Atkinson (bwatkins@samford.edu) will convene the Chairpersons. MAA Liaisons will meet from 11:30 to 12:30 on Friday, convened by Section Governor Stephen Davis (stdavis@dauidson.edu). A box lunch will be provided for those liaisons attending. Please e-mail Jim Gleason (jgleason@as.ua.edu) by March 1 if you are planning on attending.

Exhibits: On Friday afternoon and Saturday morning, representatives of publishing companies and other vendors will have exhibits.

Social Event: To be announced, but tours of the Paul “Bear” Bryant museum are expected!

(Pre-) Registration: Pre-registration for the meeting is encouraged; on-site registration will also be available. Online registration is available through the conference web site. This is the preferred method of pre-registration (and payment!). Alternatively, complete the attached form and enclose a check payable to MAA-SE for the appropriate amount to

MAA-SE Annual Meeting
Department of Mathematics (Box 870350)
The University of Alabama
Tuscaloosa, AL 35487-0350

Fees

Pre-registered

After March 1

Faculty meeting registration	\$25	\$35
College/university students, emeritus faculty	\$10	\$15
High school teachers	\$15	\$20
High school students	free	free
Conference Social	TBA	
Short Courses	\$35	

Hotel Information: For more current hotel information, please check out the information posted at <http://bama.ua.edu/~jgleason/MAA11/>. Participants should make their own arrangements directly with a hotel of their choice. 227 rooms blocked in several area hotels, all within 10 minute drive of the campus, has been reserved for Thursday, Friday and Saturday, March 31 – April 2 at the following hotels. Please cite the group name MAA-SE when making a reservation. All rates are subject to sales tax. Reservation deadline is March 1, 2011.

Hotel Capstone	\$115+tax, Across courtyard from conference center. (800-477-2262 800-477-2262_800-477-2262800) 477-2262
Microtel Inns and Suites	\$75-\$9 +tax, Approx. 2 miles to conference center. (205) 553-4095
Best Western Park Plaza	\$72+tax, Approx. 3 miles to conference center. (205) 561-0184
Courtyard by Marriott	\$99+tax, Approx. 3.5 miles to conference center. (866) 699-9212
Fairfield Inn	\$84+tax, Approx. 3.5 miles to conference center. (866) 699-9269
Ramada Inn	\$59-\$69+tax, Approx. 3.5 miles to conference center. (205) 759-4431
Sleep Inn – E. Tuscaloosa	\$60-\$75+tax, Approx. 6.5 miles to conference center. (205) 556-5696
Hampton Inn – E. Tuscaloosa	\$85+tax, Approx. 7 miles to conference center. (205) 562-9000

Transportation and Directions

The conference will take place at The University of Alabama, about 1 hour from Birmingham-Shuttlesworth International Airport (BHM). Driving directions can be found at <http://bama.ua.edu/~jgleason/MAA11/directions.htm>. Parking permits and directions will be e-mailed to pre-registrants at least one week prior to the conference.

Updates: Updates to this announcement and ultimately a tentative schedule of talks will appear on the conference web page, which is accessible through the section web page.



PRE-REGISTRATION FORM

Southeastern Section MAA

April 1 - 2, 2011

Contact Information:

Name: _____
(First and Last name as you wish it to appear on conference badge.)

School Affiliation: _____ **State** _____

Phone: _____ **Email Address:** _____

Please check all that apply to you

- Undergraduate Student Graduate Student
 Business/Industry/Government High School Teacher
 Are you an MAA Member? Yes No Are you under the age of 21? Yes No
 Faculty member at a college or university-check the highest Math degree offered
 Associate Bachelor Masters Doctorate

Conference Fees:

Please complete the following and total the amount of fees for your registration:

<i>Meeting Registration Fees</i>	<i>Up to March 1</i>	<i>After March 1</i>	<i>Amount</i>
College/university faculty	\$25	\$35	_____
College/university students, emeritus faculty	\$10	\$15	_____
High school teacher	\$15	\$20	_____
High school student	free	free	_____
Conference Dinner TBA			_____

If under age 21, please check here _____

Total Fees _____ **\$** _____

Please include a check payable to **MAA-SE** for the **Total Fees** along with the registration form and mail to:

**MAA-SE Annual Meeting
 Department of Mathematics (Box 870350)
 The University of Alabama
 Tuscaloosa, AL**

NOTES:

- ❖ For housing and more detailed information about the conference, UA, or the Tuscaloosa area, please visit the conference website at: <http://bama.ua.edu/~jgleason/MAA11/>.
- ❖ You may register for a SHORT COURSE by completing the online registration form. Please check the Section newsletter or the conference website.

Ninetieth Annual Meeting
Mathematical Association of America, Southeastern Section
The University of Alabama
Special Topics Sessions

Presentations by Beginning Faculty – David Stone (Georgia Southern University), chair

Intended as a forum for new faculty to meet each other, meet the Section, and for members of the Section to meet new faculty, we welcome presentations on a variety of topics by faculty members new to the Section.

Quantitative Literacy – John Pauling (Tusculum College), chair

There are a growing number of colleges and universities with programs that embed QL in various disciplines. We would encourage dissemination of this important work by soliciting papers from any individuals or groups actively involved in Quantitative Literacy either within their department or across the curriculum. The need to interpret and make inferences from quantitative data arises in all disciplines.

Mathematics in Sports and Games – Betty Rogers (Piedmont College), chair

From the ancient Olympic Games to the plethora of modern sports, mathematics is essential in all aspects of competition. Whether you are interested in the historical basis of a favorite sport, selection of the “perfect” fantasy football team, derivation of statistics from games of chance or calculation of odds for horse races to pendant races, mathematics is necessary. Presentations can include the scientific and/ or technological evolution of timing, attire worn for competition, construction of facilities, etc. This session will be an eclectic collection of papers relating to any type of sport or game in any field of mathematics. Papers can also demonstrate the use of sports in teaching mathematics at the secondary or undergraduate level. Talks should be accessible to an audience of both faculty and students. Speakers are encouraged to bring handouts.

Geometry – Meighan Dillon (SPSU) and Paul Baker (Catawba College), chairs

This session is open to any and all who love geometry. Topics may include Euclidean and non-euclidean geometries, algebraic and differential geometry, constructions, the geometry of fractals, tilings, and anything in between. Talks about history, philosophy, and the teaching of geometry are welcome as well.

Discrete Mathematics – Carlos Nicolas (UNC Greensboro), chair

The special session on Discrete Mathematics at the MAA-SES meeting is open to researchers from the Southeastern Section who wish to present new results or expository papers in the area of Discrete Mathematics. Some of the areas appropriate to this session are: graph theory, enumerative combinatorics, discrete and computational geometry, game theory, discrete topology and polytope theory.

Writing in Mathematics – Patrick Bahls and Janine Haugh (University of North Carolina, Asheville), chairs

The organizers of this session seek contributed talks from faculty who have incorporated writing in their mathematics courses in some meaningful way. This criterion should be construed broadly: talks on writing activities, writing instruction, writing-to-learn, research in writing, or any other writing-related topic will be considered.

Using Tablets and other Devices in Teaching Math – Lila Roberts (Clayton State University), chair

For the last twenty years, there has been widespread belief that there are pedagogical benefits to integrating computing technologies into mathematics teaching. There have been tremendous efforts by mathematics educators to harness the power of these devices for numerical and symbolic computation and visualization. However, the proliferation of new technologies such as tablet and touch PCs, mobile communication devices, and eReaders, requires that we continually change how we think about the possibilities for using technology to aid our instruction and promote learning in the mathematics classroom. This special session will invite speakers who will share their experiences and/or vision in how these new devices engage students and instructors in learning and teaching mathematics.

Wavelets and Finite Frames – James Salazzo (Coastal Carolina University), chair

This special session will focus on finite dimensional frame theory and its applications to such areas as coding theory, signal processing, quantum theory, etc. In particular, we are interested in the relationship between equiangular lines and tight equiangular frames.

The Mathematics of Magic, Puzzles, and Games – Doug Ensley (Shippensburg University), chair

Short Courses
MAA Southeastern Section
90th Meeting
The University of Alabama

There are three short courses and one workshop, and these run from 8:30 to 11:30 on Friday. Pre-registration for these courses should be made through John Harris by March 1. An insufficient number of pre-registrations could lead to cancellation of one of the courses; on-site registration may be possible, subject to availability of spaces.

Walking in the Mountains - The Steepest Descent Method, Ben Ntatin (Austin Peay State University)

The notion of linearity is fundamental for numerous considerations in mathematics and engineering science. In rough terms, if a problem is linear or can be well-approximated by a linear model, then there may very well be standard means of approaching it. It is well known that many physically significant problems under steady state conditions can be reduced to an equation of the form $Ax = b$ where A is possibly a nonlinear operator. Typical examples of how such equations arise are found in models involving the heat, the wave or the Schrodinger equation. Solutions of such equations are in fact, the equilibrium points of the system they model. Consequently, considerable effort has been devoted to developing constructive techniques for the determination of solutions to such operator equations. Of course, one would think of the row reduction to echelon form method to solve such a system if A is linear. We will consider the case where A is a large matrix for which it becomes not only time consuming and laborious, but also expensive to solve such a system even with the help of technology. In this short course, we introduce the material necessary for the understanding of the steepest decent method and give a detail description of the related algorithm. Some practical applications are also provided. Participants are only expected to have a basic knowledge of multi-dimensional calculus. At the end, mention is made of the case when the case when A is non-linear.

RSA and Beyond: An Introduction to Cryptology, Jeffrey Ehme (Spelman College)

It has become very common for people to transmit highly confidential information over the public forum that is known as the internet. People routinely use credit cards to make online purchases and this is (relatively) safe. In this short course we will look at the mathematics of public key cryptography that makes this possible. More specifically, we will consider the Diffie-Hellman key exchange, RSA and ElGamal, the Miller-Rabin algorithm for finding large primes, and some elliptic curve versions of these topics. No previous experience with any of the mentioned topics is assumed. Participants will be provided with a complete set of notes and references

Teaching with a Digital Text, Lang Moore and David Smith (Duke University)

The short course organizers, David Smith and Lang Moore, will present and demonstrate what they have learned in the preparation, testing, and publication of an interactive digital textbook for one-variable calculus. Issues to be investigated will include: student reading of an online text; classroom work with an online text; using activities, examples, and checkpoints; using an online homework system -- illustrated with WeBWorK; and using online instructor resources. Professors Smith and Moore have rewritten their one-variable calculus text, *Calculus: Modeling and Application* originally published on paper by D.C. Heath, as an online interactive text now published by the MAA. CDs containing the complete text will be available for each participant. Participants should bring their own laptop computers; wireless internet will be available.

Hands-On Activities To Encourage Student Engagement In Exploring Mathematics, Gary Hall, Amy Nelson, and Carroll Wells (Lipscomb University)

This workshop is specifically intended for middle grades and high school mathematics teachers and for college teachers of math/education courses. Session 1: Hands-on activities to use in the study of trigonometry—Dr. Amy Nelson: Activities include using a battery operated Ferris wheel and spaghetti to generate graphs of trigonometric functions. Session 2: Hands-on activities to use in the study of problem solving techniques—Dr. Gary Hall: Activities include the use of a murder mystery and puzzles in teaching problem solving. Session 3: Hands-on activities to use in the study of geometry—Dr. Carroll Wells: Activities include the use of paper folding to create models of Platonic Solids and to study other geometry figures. Over 90 geometric terms can be discussed using these activities. All activities in the above have been used successfully for the past five years at Lipscomb University in summer institutes supported by a math/science partnership grant from the Tennessee Department of Education.

SOUTHEASTERN SECTION OFFICERS 2010-2011

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MAA SOUTHEASTERN SECTION COMMITTEES **2010-2011**

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Site Selection:	Pat Humphrey (Chair) Mei-Qin Chen
Site Organizer (UA-Tuscaloosa):	Jim Gleason (Chair)

Southeastern Section MAA Website

<http://frodo.elon.edu/maase/>