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THE NEWSLETTER OF THE DEPARTMENT OF MATHEMATICS & STATISTICS

VOLUME 18

JUNE 2014

Janice Richardson Retires

Janice Richardson, Associate Professor of Mathematics and Education and former director of the Teaching Fellow program at Elon, is retiring after 31 years at Elon. For most of her career, she served as the department's coordinator of the teacher licensure program, which involved the organization, evaluation, and coordination of all secondary mathematics candidates for entrance into teacher education and the supervision of student teachers.

Janice joined the department in 1983 as an instructor after several years of teaching in local high schools and a community college. She became involved with teacher education from the start of her Elon career.

Her involvement with teacher education led her to become very active with North Carolina Council of Teachers of Mathematics (NCCTM). She has served as state secretary, vice president for colleges, and president, secretary, and treasurer of the Central Region. She has been instrumental in nominating math students for the NCCTM state awards of excellence, and they have won 16 times since 1986. In 1997 she was selected for NCCTM's W. W. Rankin Award for Excellence in Education, the organization's highest award given in recognition of contributions to the organization and to mathematics education in North Carolina.

Through the years Janice has been involved with grants to enhance the education of students at Elon and those in the broader community. From 2008 to 2011, the Department of Math and Statistics was a partner in a North Carolina Department of Education math/science grant focused on enhancing math and science content knowledge as well as leadership skills for K-8 teachers in three school systems. Janice served on the executive committee for the grant for three years. In 2012 Elon received a \$1.2 million grant from the National Science Foundation's Robert Noyce Teacher Scholarship Program to bolster the number of math and science teachers Elon University graduates in the years ahead through a partnership with the Alamance-Burlington School System. The grant was the largest external award that Elon had ever received. Janice was a co-principal investigator for the grant.

In 2000 Janice was named the associate director of the Teaching Fellows program and became director in 2002. She served as director for six years, and, in this capacity, she provided leadership in the programming and advising for all K-12 Teaching Fellows including seminars, field trips, study/travel, featured educational speaker series, and service.

Janice has always been supportive of Elon's study-abroad programs. During the spring semester of 2008, she took 15 students to Costa Rica. She taught a general studies interdisciplinary seminar there on



Janice Richardson and her husband, Gordon Plumblee at her retirement reception

numbers and culture. She also has taken students to Peru and London.

She has served as the central command in our department for the professional accreditation reports and Department of Public Instruction requirements. Janice has been the go-to person for teacher licensure scheduling and has been the catalyst for the strong participation of Elon's mathematics students in the Teaching Fellows program. For these and many other contributions to the Teacher Education program, she received the Excellence in Service Award from the School of Education given each year to a faculty member who has served "to advance the School of Education, Elon University, and the profession." Her contributions were also recognized by the Department of Mathematics and Statistics at its annual awards dinner in 2012. Through the years, she has been our teacher education hero.

Janice is planning lots of travel with her husband, Gordon Plumblee. She is going on a cruise to Alaska this summer and to Ireland in the fall. She will also maintain a tie with Elon by mentoring the Noyce scholars in their first year of teaching during 2014-15. She also looks forward to spending time with her children. Her daughter, Bonnie, lives in Charlotte, and her son, Paul, lives in Burlington, N.C.

MATH MAJOR AWARDED A FULBRIGHT



Nakhila Mistry, an Elon College Fellow, has been selected for a 2014–2015 Fulbright U.S. Student Award to Sri Lanka. The Fulbright Program is the flagship international educational exchange program of the United States. She will represent the United States as a cultural ambassador helping to enhance mutual understanding between Americans and the people in Sri Lanka. She will join more than 100,000 Fulbright U.S. Student Program alumni who have undertaken grants since the program began in 1948.

Nakhila is the first in her family to attend college, and she has taken advantage of every opportunity at Elon. She will graduate with approximately 215 credit hours and with majors in both mathematics and religion plus minors in international studies, Middle Eastern studies, and Asian studies.

Her Elon College Fellows Research thesis, mentored by Dr. Crista Arangala, is titled “Music Genomics: Applying Seriation Algorithms to Billboard #1 Hits.” She presented this research at the University of North Carolina at Greensboro regional conference last November, at the Joint Mathematics Meeting in Baltimore in January, AMS Southeastern Spring meeting in Knoxville, Tenn. in March, and at the National Conference on Undergraduate Research in Lexington, Ky.

in April. She has also submitted her research for publication.

Nakhila has worked on research with two other math professors and presented both topics at the Student Undergraduate Research Forum at Elon. Her research with Dr. Todd Lee is titled “A Modified Random Walker Ranking System for NCAA Men’s Division I Basketball Teams.” She has also worked with Dr. Chad Awtrey in research titled “Centralizers and Galois Groups of p -adic Polynomials.” She is planning to submit the research from both of these talks for publication. Nakhila has also been busy each summer with internships at Credit Suisse in Raleigh, South Texas Veteran’s Health Care System in San Antonio, and Citibank in San Antonio.

Her honors include Phi Beta Kappa, Phi Kappa Phi, ODK, Pi Mu Epsilon and Theta Alpha Kappa. After she has completed her Fulbright assignment, she is planning to attend graduate school in mathematics at the University of Maryland in College Park. Congratulations to Nakhila for her outstanding accomplishments!

SPOTLIGHT ON PI MU EPSILON



L to r: Chad Awtrey (advisor), Amy Wagoner (president), Nakhila Mistry (treasurer), Chris Shill (vice-president), and Eve Torrence (PME national president)

Pi Mu Epsilon, the mathematics honorary society at Elon, has taken on new life this year in spreading math love across campus. It has sponsored four events this year including a pizza party and an origami presentation by Dr. Alan Russell. In November Dr. Tim Chartier (Davidson College) gave a lecture on his research, which focused on the mathematics of rankings and snippets of his internationally-renowned “Mime-matics” show. Dr. Chartier’s visit was funded by a grant from SGA.

The Elon chapter was awarded two grants from the national office of Pi Mu Epsilon to enhance the mathematics research environment at Elon. One grant provided matching funds to support the chapter’s Pi Mu Epsilon Research Award. This annual award is given to an Elon undergraduate who has shown outstanding achievement in conducting and disseminating mathematics research. This year **Chris Shill ’14** received the award. The second grant provided funds for the president of the national office, Dr. Eve Torrence, from Randolph Macon College to visit Elon in May. She gave a workshop

on origami during the afternoon and delivered the address at the department’s celebration dinner, which included the Pi Mu Epsilon induction ceremony.

Jaclyn DeVincent, Christine Dierk, Brianna Duff, Jeremy Guinn, Kristen McCahill, Mackenzie McCraw, David McKenney, Chaun Medeiros, Nicole Miles, Emily Need, Lisa Picklesimer, Erin Strosnider, and Jessica Weed were inducted into membership in May. Chapter advisor, **Chad Awtrey**, has been elected as one of four councilors on the nine-member council of the national society.

OUR STUDENTS' ACHIEVEMENTS



Chris Shill

Chris Shill '14, a double major in physics and math, has been a prolific researcher. His work with Chad Awtrey on Galois groups of 2-adic fields has been accepted for publication in *Involve, a Journal of Mathematics* and in *Topics* from the 8th Annual UNCG Regional Mathematics Conference. He has presented his research at a conference at University of North Carolina at Greensboro, the Joint Mathematics Meetings in Baltimore and at the Student Undergraduate Research Forum. During his time at Elon, he has made a total of nine off-campus presentations. Last year he received the department's research award and this year he received the academic achievement award. He participated in an REU at Cornell University last summer. This fall he will enter the Ph.D. program in theoretical physics at the University of North Carolina at Chapel Hill with paid tuition and a stipend. He plans to teach and do research at the university level.



L to r: Ben Ackerman, Erin Strosnider, John Antonelli, Colleen Brockmyre, Christine Dierk, Chris Shill, Todd Calnan, and Nakhila Mistry. Not pictured: Andrew Fischer.

Nine mathematics majors presented their research results at the ninth annual Regional Mathematics and Statistics Conference last November at the University of North Carolina in Greensboro. Elon's undergraduate presenters, representing 25 percent of all undergraduate presentations, included **Benjamin Ackerman '13**, "Continued Fractions Ford Circles, and Descartes' Theorem;" **John Antonelli '15**, "Finding Solutions to the Turning All Lights Out Puzzle in 3D;" **Colleen Brockmyre '14**, "Basic Linear Algebra behind Google's Search Engine;" **Todd Calnan '14**, "Fractals and their application in medical imaging;" **Christine Dierk '14**, "A Recursive Solution to Enumerating Directed Graphs;" **Andrew Fischer '14**, "Investigation into a mathematical model of epileptic seizures;" **Nakhila Mistry '14**, "Music Genomics: Applying Seriation Algorithms to Billboard #1 Hits;" **Christopher Shill '14**, "Computing Galois groups of degree 12 2-adic fields with trivial automorphism group;" and **Erin Strosnider '14**, "Degree 14 p-adic fields."

As part of his research for his Lumen Scholarship, **Andrew Fischer '14**, an Elon College Fellow with a double major in biochemistry and applied mathematics, has spent much of the past two years in the laboratory recreating the chemical reactions that take place in the brain to determine why certain proteins clump together and then break apart in Parkinson's patients, damaging the cells responsible for movement and coordination. The Lumen Prize made it possible for Andrew to purchase proteins that otherwise would be difficult to finance. It also allowed him to give presentations at regional and national conferences. He plans to attend University of Maryland medical school.



Andrew Fischer

Congratulations to our department award recipients. Math awards went to **Andrew Fischer** and **Chris Shill** for academic achievement and **Nakhila Mistry** for outstanding research. Statistics awards went to **Kimberly Peterson** and **Lisa Picklesimer** for academic achievement and **Amy Zemanick** for outstanding experiential learning.

Congratulations to seniors **Andrew Fischer**, **Amy Good**, **Nakhila Mistry**, **Lisa Picklesimer**, **Kimberly Peterson**, and **Chris Shill** for their induction into Phi Beta Kappa. **Crystal Edwards**, **Nakhila Mistry**, and **Madelyne Rooney** were inducted into ODK, leadership honor society.

Senior Christine Dierk is going to graduate school at UC Berkley. Other graduates are heading into the workforce: **Erica West** will teach at Eastern Alamance High School. Noyce Scholar **Crystal Edwards** will teach in the Charlotte area, and Noyce Scholar **Maddy Rooney** will teach in Washington DC. **McKinley McCraw** will also teach in public high school. **Lisa Picklesimer** will work at J P Morgan Chase, **Seamus McGuire** will work at Ernst and Young, **Colleen Brockmyre** will work at EMC Corporation, and **Kimberly Peterson** will work at RTI International.

Chris Shill and **Erin Strosnider** presented their research on p-adic numbers at the spring conference of the Center for Undergraduate Research in Mathematics at Brigham Young University in March. They also gave an invited presentation with their mentor, **Chad Awtrey** at UNCG in April. Their talk, supported by an NSF grant, focused on results from joint work with math major **Nicole Miles '15** and UNCG doctoral students. **Maddie Edwards '15** has been accepted into an REU at the Mathematical Biosciences Institute in Ohio this summer. **Jessica Brown '15** has been accepted into the Summer Institute of Biostatistics at N.C. State University.

NEWS FROM OUR ALUMNI

Carol Lupinacci Brown '68 is presently living in Charleston, S.C. She earned her doctorate from the University of Delaware. She says that Elon's entry into the Colonial Conference has put her in a vise! She spends time playing golf and tutoring her great nephew in math. She says that everyone should check out what these 13 year-olds are learning in math.

Phil Garner '73 lost his job in Materials Management in the Intimates division of Hanesbrands due to the 2009 economy after 23 years there. He was then offered the opportunity to use his skills with Volvo Parts North America in the Procurement Department of their Mack Truck Aftermarket Division. This August he will celebrate five years of service with VPNA.

Donna Phillips Shore '84 reports that her son, Jean-Claude, plans to attend North Carolina State University's College of Engineering in the fall. Her daughter, Michelle, is completing her freshman year at Reagan High School where she is a member of the junior varsity basketball and track teams. She says that both children are "blessed" with sharp mathematical minds.

Kelly Holder '93 is a math teacher and head football coach at Mt. Airy High School. His wife, Jill Taylor '93, is a kindergarten teacher at Harrington Elementary. They have two sons, Logan (16) and Ian (14).

Thomas and Holly Weeks McDow '99 adopted their second child, Nathan Lee McDow, on Aug. 9, 2013. He was born July 30. His big brother, David, loves having him around!

Kate Mansi Merrill '00 finished her doctor of education degree at UCLA in June, 2013. She also earned an M.S. in mathematics education from N.C. State (2003) and an Ed.S. in educational leadership from George Washington University (2007). She is now with Teach For America in Montgomery, Ala., managing a cohort of Alabama TFA corps members in their first and second years of teaching. She presented a paper at the American Educational Research Association's annual meeting on teacher resilience, which was drawn from her dissertation. She and her family moved from Los Angeles to Alabama last summer (culture shock) due to her husband's (Jonathan '01) transfer. They have a four-year-old son, Andrew, and a terribly spoiled dog, Doppler.

Rose Cordero Prey '01 and her husband, Kevin, welcomed their first child, Nathaniel Ernest Prey, on March 28, 2014. Nate weighed 7 pounds, 7 ounces and was 20.5 inches long.

Joy Blackwell Hampson '02 is still living in Gainesville, Fla. and working as a data analyst. Her second daughter, Samantha Marie, was born August 5. She weighed 8 pounds, 6 ounces and was 20 inches long.

Erin Krupa '02 presented two research sessions at the NCTM conference in New Orleans and is working with the Noyce scholars program at Montclair State University.

Adam Benjamin '04 and his wife, Erica, have been quite busy with their new daughter, Marley, born October 15. Their son, Kai, has been a great big brother.

Sal Fratanduono '04 left Accenture after nine years of IT and business management consulting to join Capital One in Richmond, Va. He is leading a team of project managers, responsible for a portfolio of Commercial Banking Operations projects. He and his wife, Jill, have bought a house in the Richmond suburbs.

Briana Yoho Long '05 and husband, Chris, welcomed their son, Ethan Michael, into the world on September 5, 2013.

Laura Callinan '08 has relocated to Connecticut (from Atlanta) and is working as a biostatistician at Yale in the department of psychiatry.

George Hall '08 married Jessica Tingle '08 in 2011 and is working on a masters of electrical engineering degree at Villanova University. He spent a year in the Low Observables group at Boeing for the F-18. He is currently the lead electromagnetic effects engineer for Boeing Chinook UK programs and has pioneered Indirect Effects of Lightning testing for all variants of the Chinook. He authored the Boeing Enterprise Best Practice Guide for Aircraft Indirect Effects of Lightning Testing for the company, both commercial (787, for example) and defense (Chinook, for example).

Hilary Sheets Bowers '09 received her master's in accounting from the University of North Carolina at Chapel Hill in May. She hopes to complete the Certified Public Accountant exam, and then she will join Dixon Hughes Goodman (public accounting firm) in High Point, N.C. as a tax associate in the fall. Her husband just joined the Air Force Reserves and will leave for basic training soon.

Karen Hooper Ellis '09 and Taylor Ellis are expecting a baby girl in June.

Jessica Stewart '09 successfully defended her dissertation titled "The Spectral Analysis of the Exceptional Jacobi and Laguerre Equations" and graduated with a Ph.D. from Baylor University in May. At Baylor, she has taught a variety of courses and received the Outstanding Graduate Student Instructor award from the Graduate School. She has accepted a tenure-track assistant professor position at Goucher College in Baltimore, Maryland. She is engaged to James Kelly, a fellow mathematician, and they have set a wedding date of June 20, 2015.

Rachel Scott McGlaughlin '09 welcomed her second daughter, Harper, on March 26 and is enjoying staying at home with the baby and her older sister, Haley. She and her husband, Vic, will be celebrating their fifth wedding anniversary in May.

Cindy Goodson Blanchard '10 is in her fourth year teaching math at Central High School in Knoxville, Tenn. She is also halfway through a masters in mathematics from the University of Tennessee.

Dave Filonuk '10 is a business intelligence analyst/developer for Allegheny Health Network in Pittsburgh, Pa. He works on an ETL team that maintains the data warehouse and a BI team that creates automated reports for physicians, hospital staff, and corporate staff. His work involves implementing a new electronic medical record system for the hospitals within their health network while also maintaining the old system. The work directly impacts patient care by improving the efficiency of the hospitals and the overall quality of healthcare in Western Pennsylvania.

Sam Jennings '11 has become the chair of the mathematics department at South Brunswick High School in Southport N.C.

Greg Mader '11 is finishing his third year of graduate school at North Carolina State University, where he is pursuing a Ph.D. in Biomathematics. Aside from interdisciplinary coursework and teaching responsibilities, his research efforts are focused on cerebral blood flow dynamics.

Amanda Ketner '11 took 10 students from her school to Guatemala in March for a service trip. In addition to touring the country, they built two houses with a nonprofit called From Houses to Homes.

Kathryn Dugan '12 received her master's degree in computer science from the College of William and Mary in May with a specialization in computational operations research. She has been working part time for the past two years at NASA Langley Research Center in Hampton, Va. building a discrete event simulation that

models building deep space shelters to help shield astronauts against solar particle radiation. This past summer, she interned with Intel Corporation in Chandler, Ariz., working with the supply chain information and analytics team to build optimizations and improved simulations that modeled Intel's supply chain. After graduation she will move to Portland, Ore. to work with Intel Corporation in the technology development group.

Kileigh Browning '13 became recently engaged to Elon grad Garrett Welshofer '14. She will begin her Ph.D. program in the fall at Michigan State University in the forestry department. While at MSU, she will also be a part of the ecology, evolutionary biology, and behavior interdisciplinary program that will allow for access to many departments and areas of research, including statistics!

Jill Padfield '13 is serving with AmeriCorps NCCC on the Pacific Coast in a 10-month volunteer position. She is training with the U.S. Forest Service in El Dorado National Forest in California, and she recently earned a Red Card, allowing her to be a Type II Forest Fire Fighter. Along with a team of 10 people, she will respond to Pacific Coast forest fires until the end of August. She will then become a high school math teacher of Cap Cana Heritage School in the Dominican Republic on a two year contract.

Alex Spitz '13 received his masters in economics at the University of New Hampshire in May and will begin work this summer as a research assistant at the Federal Reserve Board in D.C.

Blaire Zachary '13 works in Charlotte, N.C. as an economic analyst for Wells Fargo. She is preparing take the first test toward completing her CFA to continue her career in finance.

ARANGALA ON FULBRIGHT IN SRI LANKA



Crista with a team of students at the Math Modeling Forum

Associate Professor of Mathematics Crista Arangala has been living in Sri Lanka this spring as a 2013-14 Fulbright U.S. scholar. She is teaching a special topics course using Mathematica to fourth-year students at the University of Colombo. She is also co-teaching a linear algebra course, working with Ph.D. students who are modeling the spread of Dengue, and advising a master's thesis. Crista says that the Fulbright has helped her develop partnerships for American students in the future. Her partnership with the Dengue research group will provide topics for student research when she returns to Elon. She is also planning to pursue a project with a group from Sri Lanka working on malaria data.

The principal purpose of the Fulbright Scholar Program is to increase mutual understanding between the people of

the United States and the people of the more than 150 countries that currently participate in the Fulbright Scholar Program. Fulbright alumni have become heads of state, judges, ambassadors, cabinet ministers, CEOs, university presidents, journalists, artists, professors and teachers. They have been awarded 43 Nobel Prizes. Since its inception more than 60 years ago, approximately 300,000 Fulbright recipients have participated in the program.



Leigh Iler with her Lumen Prize mentor, Stephen Byrd

LEIGH ILER '14 RECEIVES OUTSTANDING MATHEMATICS EDUCATION STUDENT AWARD

Leigh Iler '14, a Teaching Fellow and Lumen Prize recipient, received the Outstanding Mathematics Education Award for the Central Region of North Carolina at the annual N.C. Council of Teachers of Mathematics conference last November. Sixteen Elon students have received this award since 1986, including the last four years.

An elementary education major from Cary, N.C., Leigh was recognized for her research titled, "Response to Intervention Techniques as Applied to Sixth Grade Math Content to Promote Student Success." As part of her Lumen prize award, Leigh created scripted lessons for trained tutors to use with sixth-grade mathematics students. At the NCCTM conference, Leigh presented this research focusing on effective interventions for struggling students. Leigh is a member of Phi Beta Kappa and Phi Kappa Phi. She will teach in the North Carolina public schools next year.

NEW FACULTY MEMBER



Dr. Mark Gebert joined the department in Fall 2013 after 19 years of teaching probability and statistics and mathematical topics at other postsecondary institutions, most recently the University of Kentucky in Lexington. Mark says that he loves the smaller classes at Elon where he can address students by name within a few weeks.

He received his bachelor's degree in mathematics and computer science from Rose-Hulman Institute of Technology, his master's in mathematics at Indiana University, and another master's and a doctorate in statistics at Rice University. He loves travel, having visited more than 25 countries. He and his wife spent three weeks in the summer of 2013 in China, where they were hosted by Shanghai University, each teaching a course there at its summer institute. He has four sons: Ellis, Nick, Phil, and Morgan--of whom he is very proud.



L to r: Sarah, Laura, and Katherine

WE HAVE TWINS!

The department celebrated the arrival of new babies this year. Associate Professor of Statistics **Laura Taylor** and her husband, Chris Baysden, welcomed twins, Sarah Jane Baysden (6 pounds 15 ounces) and Katherine Elizabeth Baysden (6 pounds 10 ounces), on January 27. Laura says that life with twins is a non-stop adventure, and the girls are excited to participate in many matched-pairs experiments in the future! They currently average 26 diapers in a day!

THREE NAMED NOYCE SCHOLARS

Three rising junior math majors, **Amy Heaton**, **Emma Luparello** and **Julie Merritt**, have been named Noyce Scholars. Each of these students will receive \$21,900 scholarships during both their junior and senior years with special experiences including extra mentoring by university and secondary-school educators. The Robert Noyce Teacher Scholarship Program supports scholarships, stipends and academic programs for undergraduate STEM (science, technology, engineering and math) majors and post-baccalaureate students holding STEM degrees that earn a teaching credential and commit to teaching in high-need K-12 school districts.

THREE FACULTY ARE PROMOTED



Karen Yokley

The Department of Mathematics and Statistics celebrated the promotion of three of its faculty to the rank of assistant professor. Kirsten (Kirstie) Doehler, Laura Taylor, and Karen Yokley also were granted tenure.

Karen Yokley serves as the department's applied math coordinator. She came to Elon in 2008 with an extensive background in the applied field and led the development of the B.S. degree in the applied math major, which began in fall 2010. Her research interests include agent-based modeling of transmission of malaria and the identification of number arrangements that exhibit "magic" properties. She co-authored with Todd Lee and alumni Amanda Brown, Mary (Christy) Minor, and Greg Mader an article in *Involve, a Journal of Mathematics* about her malaria research. She also published an article about magic polygrams in *Involve, a Journal of Mathematics* with Crista Arangala and alumna Amanda Bienz and presented this research at the southeastern sectional meeting of the Mathematical Association of America in Tennessee in March. Karen earned her bachelor's degree in mathematics at the University of Tennessee. She received both her master's degree in applied mathematics and her doctorate in computational mathematics from North Carolina State University.



Kirstie Doehler

Kirsten (Kirstie) Doehler and **Laura Taylor** have been instrumental in developing and enhancing courses for the statistics major and minor. Kirstie is the department's current statistics coordinator, taking over for Laura who has been on maternity leave this spring. In the past year Kirstie and Laura have coauthored articles in *Teaching Statistics* and *the Journal of Statistics Education*. Kirstie has also published her research in *Mathematics Statistics Operation Research Connections* and the *Journal of Herpetology*. Kirstie and Laura presented a talk about using Google forms to collect data in class at the NCCTM in Greensboro last October. Kirstie also presented a talk about the marathon gender gap at the Carolina Sports Analytics Meeting in Greenville, S.C. Laura published an article on nonparametric estimation in *Lifetime Data Analysis* last year and had a peer-reviewed poster at the United States Conference on Teaching Statistics last fall. They have both been busy!



Laura Taylor

Kirstie graduated from the State University of New York College at Geneseo. She earned her master's and doctorate degrees in statistics at North Carolina State University. Laura received her bachelor's and master's degrees in mathematics from Winthrop University and her Ph.D. in statistics from the University of South Carolina.

NEWS FROM FACULTY

Our faculty have been very professionally active this past year. They published 11 peer-reviewed articles many with undergraduate students and gave 16 presentations at local, regional and international conferences. Our faculty received three grants for summer fellowships and two reassigned time awards. Ten of our 16 full-time faculty members mentored 23 unique students in 49 semester hours of math, statistics or honors research.

Skip Allis is currently the chair of Elon's Committee on Committees and will become chair of Academic Council next academic year.

Chad Awtrey received \$6,250 from Brigham Young University/National Science Foundation for his ongoing work, *Degree 14 Extensions of the p-adic Numbers*. He has received a 2014 **Summer Research Fellowship** and a research equipment grant. He has given five presentations during the past academic year related to his research on degree 14 p-adic fields.

Jim Beuerle had articles in the *Indian Journal on of Science and Technology*, *International Journal Applied Mathematics and Statistics*, and *Journal Teknologi* about metacyclic p-groups.

Qie Le is the director of the actuary concentration. He helps students prepare for the P1 and FM2 actuarial exams. He is helping the Elon sustainability office analyze their data sets.

Todd Lee gave a presentation on fractals at Longwood University in February. **Jan Mays** serves as the secondary mathematics teaching licensure coordinator. She is working on the preparation for the NCAT visit in 2015.

MORE FACULTY NEWS

Jeff Clark published an article in the *New York State Mathematics Teachers' Journal* titled "Using Escher's Work to Demonstrate Symmetries of the Plane." He gave three presentations this year: "Honest Multivariable Calculus" at the Southeastern Section of the Mathematical Association of America in Tennessee, "Using Counterexamples of Calculus to Teach Real Analysis" at the Joint Mathematics Meetings in Baltimore and "Unit Acceleration Vectors" at MathFest in Hartford, Conn. He is serving on Academic Council.

Lisa Rosenberg was successful in securing a \$2,000 Sharply Focused grant through Elon's Writing Excellence Initiative to purchase 15 HP Tablets for classroom use. She presented a talk at NCCTM last October on how to use cell-phones in the classroom.

Alan Russell continues to serve as the Associate Director of the Center for the Advancement of Teaching and Learning. He has been holding workshops on sketch noting where students use doodles and simple drawings to process course content. He continues to give origami demonstrations at various conferences and events. He gave a talk at the International Society for the Scholarship of Teaching and Learning about how students understand standard deviation.

THANK YOU FOR YOUR DONATIONS!

Thank you so much for your donations to our department, which help us provide money for equipment and projects. We are so grateful for the following donors for school year 2013-14: **Jane H. Alexander, Steven and Cara Ashby '04, Chuck and Linda Borders '88, Mr. and Mrs. Thomas R. Donahue, Michael Dunlap and Meredith Webster '96, Amy E. Flower '04, Mr. and Mrs. Richard C. Flower, Salvatore P. Fratanduono '04, Angel and Abigail Baumann Garcia '11, Olga M. Griswold '80, Gains and Aileen Hopkins '67, Michelle N. Leibowitz '88, Charley and Jan Mays, Nakhila S. Mistry '14, Ralph O. Mueller '83, Scott and Tammy Newbern '94, Jeanette P. Olli '03, Mr. and Mrs. Michael D. Rapp, SAP, Ryan S. Schork '10, Randy and Lori See '85, Helen F. Walton, and Mr. and Mrs. Harold E. Williams '66.**

CHECK OUT OUR WEBSITE

We have updated our website this year. To learn about our majors, see our photos and get our contact information, visit our link at http://www.elon.edu/e-web/academics/elon_college/mathematics_statistics/. This newsletter is a production of the Department of Mathematics and Statistics at Elon University.

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