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Two Culberson Professorships Established

Frank Culberson (’60) and his wife, Doris, have pledged $1 million over five years to establish two professorships in the Department of Chemical and Biomolecular Engineering. Their gift will be supplemented by contributions from the state’s Distinguished Professorship Endowment Trust Fund, bringing the total donation to $1.5 million. One professorship will help recruit or retain a senior faculty member, while the second could be filled by another established professor or a rising star in the field.

Frank is chairman and a director of Rimkus Consulting Group, a 400-person forensic consulting and engineering firm headquartered in Houston, Texas. Rimkus investigates energy and construction accidents and disputes; residential and commercial problems; product failures, including major equipment and machinery; motor vehicle and marine accidents; and industrial fires and explosions. In addition to his BS from our department, Frank earned an MBA from the University of Houston in 1966. Doris earned a bachelor’s degree in English and Education with a Texas Teaching Certificate from the University of Houston, and later taught at a Houston-area high school.

Frank also serves as president of the NC State Engineering Foundation, which works with alumni, friends and corporate partners to secure private financial support for the College. He was named a Distinguished Engineering Alumnus by the College in 2002. Frank spoke at the dedication of Engineering Building I on Centennial Campus in 2005 and also at the department’s 2007 commencement ceremony.

“My NC State engineering education contributed a great deal to where I am today,” Frank said. “We like to support things that are worthwhile, and this is a worthy program in which to be involved.”

The couple previously endowed the S. Frank and Doris Culberson Academic Enhancement Fund in Chemical Engineering.

Lisa G. Bullard Undergraduate Enhancement Fund

Endowments honoring a faculty member are almost always created upon their retirement or as a memorial with their passing. However, as we announce the establishment of the Dr. Lisa G. Bullard Undergraduate Enhancement Fund, we can thankfully state that she isn’t retiring any time soon, and her health is great!

Robert Bradley (’10) came up with the idea of creating a fund that Lisa could use to support undergraduate activities. He wanted to honor Lisa for all she does to help our undergraduate students. The list of what Lisa does for our students is long: she serves as the initial advisor for all of our students; writes letters of recommendation for awards, scholarships and graduate school; organizes the senior banquet and our commencement ceremony; and manages the scholarship program for our students among other tasks. She also teaches several undergraduate courses, including CHE 205, CHE 395, and CHE 451, so most students have her for one or more classes. Even after graduation, Lisa remains in contact with our graduates to assist with job placement, professional school recommendations, or simply providing guidance and advice.

The Lisa G. Bullard Undergraduate Enhancement Fund will be used to support activities in our department that “enhance the experience of undergraduate students as a whole.” Some examples of activities that could receive support are our annual senior banquet and freshman welcome dinner, educational and professional development materials, commencement ceremony photography, and mementos for our graduating seniors.

We are thrilled to report that contributions reached $31,200 at the end of 2011 counting matching gifts and pledges! Our thanks go out to all who have contributed to this endowment. We’d like the endowment to reach at least $50,000, and it’s not too late to make a contribution. Please go to the following web page for instructions on how to make a donation: http://www.che.ncsu.edu/giving/bullard-enhancement-fund.html.
More CBE Department Endowments

Dennis Carroll (MED ’68) and his wife, Melissa Speegle, established the C. Dennis Carroll Scholarship to provide merit based scholarships for undergraduate students. Preference is given to students who have graduated from a North Carolina high school. Dennis is retired from a 31 year career as a statistician for the federal government.

John Davis (’91) and Ana Piqueras Davis (’91) have established the John E. and Ana Piqueras Davis Scholarship to provide merit based scholarships for undergraduate students. John and Ana both work at Syngenta in Greensboro. John is Group Leader of Formulation Engineering Technology and Projects, and Ana is Head of Health, Safety, Environmental and Security for Syngenta’s North American operations.

Carlos Gutierrez (’60) and his wife, Barbara, have created the Carlos D. and Barbara Hoyle Gutierrez Scholarship which will provide merit based scholarships for undergraduate students. Carlos is president of URRC, a company that recovers silver and PET from x-ray film and also is president of NURRC, a joint venture with Coca-Cola that processes PET bottles so the raw material can be directly used to make new bottles.

Herb Hooper (’85) and his wife, Leila, have established the Herbert and Leila Hooper Scholarship which will provide need based scholarships for undergraduate students. Herbert is a managing partner at Ampersand Capital Partners in Wellesley, MA. Ampersand is a middle-market private equity firm focused on the healthcare and industrial sectors.

Randy Jester (’75, MS ’77) and his wife, Alice, donated a residential property valued at $99,000 to a unitrust he established in the NC State Engineering Foundation. The unitrust will provide an income stream to Randy and Alice for life and the remainder will fund the Randy D. Jester Scholarship, which will provide merit based scholarships for undergraduate students with junior or senior status. Randy is a Market Development Manager at TOPAS Advanced Polymers.

Dr. George Roberts has been honored with two endowments in his name: the Dr. George W. Roberts Memorial Fund and the Dr. George W. Roberts Memorial Scholarship. The Memorial Fund will provide support to our AIChE student chapter with a preference of providing assistance to students travelling to AIChE student conferences. The Memorial Scholarship will provide scholarships for undergraduate students based on merit, with need as a consideration.

Dr. Ed Schoenborn, under whose leadership our PhD program was established, was honored with an endowment in his name to benefit our graduate students: the Dr. Edward M. Schoenborn Graduate Student Fund. The endowment will support the graduate program and shall be used at the discretion of the department head. First preference is to provide support for the Schoenborn Graduate Student Awards.

Milt Williams (’61, PhD ’65) and his wife, Martha, established the Milt Williams Scholarship to provide merit based scholarships for undergraduate students. Milt was the recipient of a three-year Engineering Foundation Fellowship while working toward his PhD degree and would like to support other students who are pursuing degrees in our department. Milt retired from Freudenberg Nonwovens in 2005 and lives outside of Columbia, SC.

NC State CBE Department is Second Nationally in R&D

The October 4, 2010 edition of Chemical & Engineering News reports that our Department is ranked second nationally in spending on research and development for 2008 among all U.S. chemical engineering graduate programs. The article “Academic R&D Spending Trends” shows our department spent $22.5 million in 2008, more than all but one university.
Message from the Department Head

Dear Alumni and Friends of the Department,

Considerable activity and accomplishments have taken place since the Department published the last CBE Alumni Newsletter, and we are pleased to share news items with you in this issue. My objective as Department Head is to assure that resources are in place to provide CBE students a high-quality education that prepares them for a productive and rewarding career. Along this vein, some of my goals for the Department include maintaining vigorous support of the undergraduate program and our undergraduate students; hiring faculty members of excellence; increasing graduate student enrollment and degrees awarded; and expanding research-based funding. I am thrilled to report that progress has been made on all fronts.

Since 2008 the number of CBE faculty members increased from 22 to 26; graduate student enrollment rose from 119 to 147; contract and grant research expenditures grew from $6.74M to $7.21M, and the number of B.S., M.S., and Ph.D. degrees awarded increased, respectively, from 79 to 104, 20 to 28, and 12 to 15. These accomplishments result from a concerted effort by the Department’s talented and dedicated faculty, and the positive trends in these metrics are indicative of the vitality of your Department.

The Department’s undergraduate program was reviewed in the 2010-11 academic year by ABET, the accreditation agency for engineering programs. Alumni play an important role in the ABET review process by participating in the Alumni Survey administered by the University. Thanks for the feedback that you provide in the surveys — it is always informative and was helpful in preparing for the ABET review. I am proud to report that our undergraduate chemical engineering program received unqualified approval from ABET and remains in good standing until the next program review in 2016. With this latest ABET review, our chemical engineering program has been continually accredited since the initial review in 1948.

All new CBE faculty hires are teaching in the undergraduate program. As a consequence, although our undergraduate enrollment has increased from 351 (2008) to 491 (2011) and while we’ve endured substantial cuts to the Department’s permanent operating budget, we should be able to maintain class size at current levels and provide students a supportive learning environment. The Department’s unit operations lab course is a bottleneck in our ability to handle undergraduate enrollment increase. As a step to address this issue, the Department recently hired Dr. Matthew Cooper as a Lecturer to teach the course.

My faculty colleagues, Department staff, and I are proud of our alumni and what you have accomplished. In reading the Class Notes section of this Newsletter, you’ll find that our alumni have received prestigious national awards, have been named to corporate executive positions, have earned advanced degrees or professional certification, and have experienced significant life changes. We’d like to share your accomplishments with our alumni community, and I invite you to send news about yourself for the next issue. One noteworthy accomplishment by an alumnus that I am pleased to report is that our own Dr. Phil Westmoreland (‘73), who joined the CBE faculty in 2009, was elected this year as President Elect of the AIChE. Phil will assume the position of President in 2013 and will complete a three-year leadership role in the Institute by becoming the Past President in 2014.

Finally, several alumni have made exceptionally generous donations to fund scholarships, professorships, and discretionary spending for the Department. You’ll find in this issue news items about our new endowments. My faculty colleagues and I are deeply grateful for the generosity of our alumni. These gifts are extraordinarily valuable and provide an important and flexible means to further the growth and reputation of your Department. I hope that you will consider making a gift in the near future to support the Department’s programs.

If you attend the November 2012 meeting of the AIChE in Pittsburgh, I hope that you will drop by the NC State reception and say hello to the faculty. We’d love to speak with you and tell you about recent developments at your alma mater.

Best regards,

PSF

P.S. If you’d like to receive your future newsletters electronically rather than hardcopy, please let us know by sending a note to: che_alumni@ncsu.edu. Your message should include the email address where you’d like the copies to be sent.
Department Website

Our department’s website has been dramatically improved due to the efforts of Professor Wesley Henderson. He examined dozens of other websites, not only of chemical engineering departments but a variety of others, and took it upon himself to completely revamp our site. His goal was to provide extensive information for our alumni, our students and prospective students.

One of the most innovative additions to our website is the new Alumni Snapshots section (see URL below). From this page you can click on a class year and find LinkedIn profiles of that year’s grads. We’ve loaded photos on the class-year pages along with current job information and college degrees. If we’ve missed your LinkedIn page, please let us know (cbe-webmaster@ncsu.edu) or if you are profiled on any website, please send us the link.

Home: http://www.che.ncsu.edu
Alumni Snapshots: http://www.che.ncsu.edu/people/alumni-snapshots.html
BS Alumni: http://www.che.ncsu.edu/about/history/BandBSAlumni.pdf
MChE Alumni: http://www.che.ncsu.edu/about/history/MChEAlumni.pdf
MS Alumni: http://www.che.ncsu.edu/about/history/MSAlumni.pdf
PhD Alumni: http://www.che.ncsu.edu/about/history/PhDAumni.pdf
Historical Photos: http://www.che.ncsu.edu/about/historical-photos.html
History: http://www.che.ncsu.edu/about/history_milestones.html
Honors & Awards: http://www.che.ncsu.edu/about/honors-alumni.html
News & Events: http://www.che.ncsu.edu/home/news.html
Newsletters: http://www.che.ncsu.edu/about/documents.html

Finally, Wesley assembled links to an amazing number of electronic books that are accessible through the CBE site. The top URL is http://www.che.ncsu.edu/information/electronic-books.html and links to specific topical areas are available on that page. The electronic books link also appears on the “Information” sub-menu.

Wikipedia

We have been able to find five individuals with connections to our department who have Wikipedia articles written about them: Rich Felder, O. Max Gardner (IC 1903), Warren McCabe, Vivian Stannett and Max Thurman (’53). Max Thurman is the only one of these five individuals who received a chemical engineering degree from NC State. He became a four star general in the US Army. O. Max Gardner would have earned a ChE degree, but the curriculum was dropped his senior year and he ended up with an Industrial Chemistry degree. Of course O. Max Gardner became a governor of North Carolina.

Rich Felder, Warren McCabe and Vivian Stannett were all well-known professors in our department. The article on Warren McCabe is written in Portuguese – interestingly enough there is not an English version of this article.

Following are the URLs for their Wikipedia articles:
Max Thurman: http://en.wikipedia.org/wiki/Maxwell_R._Thurman

4 chemical and biomolecular engineering at nc state university
Department History and Alumni Featured on Our Electronic Display

In 2008, Danny Henderson ('79, MS '81) and Todd Wiggs ('88, MS '95) at Corning, Inc. arranged for the company to donate a Sharp Aquos® LCD-TV to the department. The LCD screen was made with Corning's Eagle XG™ glass and is the centerpiece of our digital sign display. Two popular slides on the display are the department History and Alumni.

The History slide displays photos and information assembled by Russ O’Dell which span from the earliest days of the department to life in the department in the mid 80’s. You can access the slide at http://www.che.ncsu.edu/display/pages/history_page.html. New images will randomly appear each time your computer browser is refreshed.

The Alumni slide displays a photo and brief information about each featured alumnus. Using our alumni as role models, the slide is intended to show our current students the wide range of career opportunities available to them. The web address is http://www.che.ncsu.edu/display/alumni/alumni.html, and as with the History slide, a new image appears each time the computer browser is refreshed.

We’re continually adding to the pool of Alumni slides, and we’re hoping folks who receive this newsletter will help us to do that. If that’s you, please send your photo and information to Hubert Winston at winston@ncsu.edu. If necessary, we may need to edit any information you send.

Dickey Group Pioneers New Technology

From radios and mobiles phones to wireless-networking gear and GPS devices, antennas are everywhere. Typically they’re made from rigid materials that can break easily. While thinking about this problem, Michael Dickey wondered if a more resilient alternative might be found. Not long afterwards, he assembled a team of electrical and chemical engineers, and together, they used an alloy of gallium and indium that has the electrical properties antennas need to function but is a liquid at room temperature.

Because the metal is a liquid, it can flow when deformed, and thus, the shape-shifting antennas can be flexed or stretched without losing electrical continuity. This property results in durable antennas that could be embedded into materials such as textiles, bandages and bendable displays to create a new generation of flexible devices. Michael thinks this flexibility might be exploited to make stress-detectors for civil engineering projects such as dams and bridges. If flexible antennas attached to small radio sets were placed inside a bridge, they would expand or contract along with the bridge, and engineers monitoring the bridge could scan them to determine its condition.

This work from the Dickey group has been highlighted by The Economist, MSNBC, Forbes, Wired, and many other popular news outlets worldwide, and two companies have licensed the technology from NC State. The work has been supported by the National Science Foundation and is being performed by a team of undergraduate and graduate students.

Online Masters Degree Program Is Thriving

In coordination with the Engineering Online program of the College of Engineering, the Department has offered an online non-thesis Master of Science in Chemical Engineering (MSChE) degree since Spring 2003. The program has the same course content and admissions requirements as the on-campus graduate program but allows off-campus individuals to obtain the MSChE in 3-5 years without having to visit the NC State campus. Courses for the program are delivered online, and students can take the courses individually or as part of the degree program.

Enrollments in the program have steadily increased from four during the 2004 Fall semester to 34 students from the U.S. and four foreign countries during Fall 2011. To date, 32 students have earned the degree. Information about the program is available at http://engineeringonline.ncsu.edu/EOL_DEGREES/MSCHE.pdf.
We Welcome Six New Faculty Members

Chase Beisel joined our department in August 2011 after completing a postdoctoral fellowship at the National Institutes of Health. He’s been awarded honors which include graduate research fellowships from the National Science Foundation and the Department of Defense, as well as an LSRF postdoctoral fellowship from the Gordon and Betty Moore Research Foundation.

Chase earned a BS in chemical engineering from Iowa State University in 2004 and a PhD from the California Institute of Technology in 2009. He taught CHE 205 during the Fall 2011 semester, and is starting his research group based in Partners II. His research focuses on understanding and controlling decision-making in bacteria. Many types of bacteria are responsible for debilitating illnesses worldwide, while other types contribute to proper digestion and a healthy immune system. Bacteria also perform complex metabolic reactions that can be harnessed for sustainable and inexpensive chemical production. By controlling how bacteria make decisions, the Beisel group seeks to develop novel treatment strategies in the fight against bacterial pathogens, foster the beneficial contributions of bacteria, and rework metabolic regulation to enhance industrial chemical synthesis.

Chase and his wife, Amy, have a delightful one-year-old daughter named Lucia and live near downtown Raleigh. When Chase isn’t playing with bacteria or his daughter, he can be found playing the drums, playing soccer, traveling the world, or enjoying the many microbreweries of North Carolina.

Matthew Cooper has been hired as a part-time Lecturer to work with PK Lim in the unit operations lab courses, CHE 330 and 331. Matt received his B.S. in chemical engineering from West Virginia University in 2002, then worked as an oilfield engineer with Schlumberger. He earned his graduate degrees (M.S. ’05/Ph.D. ’08) from Ohio University. His M.S. research focused on electrochemical production of hydrogen from ammonia for PEM fuel cell applications and led to the award and licensing of a U.S. Patent. For his Ph.D. research at the Ohio Coal Research Center, Matt developed novel catalysts for the efficient production of electricity by solid oxide fuel cells. After receiving his Ph.D., he moved to the Raleigh area to serve as a research chemical engineer for RTI International focusing on energy research. In his free time Matt enjoys hiking, sports and cooking.

Michael Flickinger earned a B.S. degree in microbial biochemistry (’73), and M.S. (’75) and Ph.D. degrees (’77) in pharmaceutical biochemistry, all at the University of Wisconsin, Madison. His graduate thesis research focused on microbial biotransformation of antibiotics, containment of multiple-drug-resistant microorganisms, and fermentations with oxygen-enriched aeration. His postdoctoral work was completed at the Laboratory for Renewable Resources Engineering (LORRE) in the School of Chemical Engineering at Purdue University.

In 1980, he accepted a position with the National Cancer Institute’s Frederick Cancer Research Center in the Fermentation Program where he later became Program Director. At NCI he supervised anti-tumor drug discovery and development, which included cGMP (current Good Manufacturing Practice) manufacturing of anticancer antibiotics, enzymes, biologics and tumor virus for fundamental studies, and pre-clinical and clinical trials.

In 1985, Michael became Founding Director of the University of Minnesota’s Institute for Advanced Studies in Biological Process Technology. He served as Director from 1985 to 1992 in addition to teaching and supervising graduate students as a Professor of Biochemistry, Molecular Biology and Biophysics. During his 22 year tenure at Minnesota he trained over 30 graduate students and was co-editor of the Encyclopedia of Bioprocess Technology: Fermentation, Biocatalysis and Bioseparation.

In 2007, Professor Flickinger moved to NC State as the Associate Director for Academic Programs at the Golden LEAF Biomanufacturing Training and Education Center (BTEC), with joint appointments in the Department of Microbiology and in our Department. His full-time appointment in Chemical and Biomolecular Engineering began in 2011. He is editor of the Encyclopedia of Industrial Biotechnology and was elected a Fellow of the American Chemical Society in 2009, becoming the first faculty member at NC State selected as an ACS Fellow.
Fanxing Li joined our department in August 2011 as an assistant professor. As a Ph.D. student and Post-Doctoral Researcher he worked in the lab of Professor Liang-Shih Fan at The Ohio State University. While working with Professor Fan, Fanxing and a group of graduate students developed a novel chemical looping gasification concept. A 250 kW pilot plant based on this concept is currently being constructed at the National Carbon Capture Center (NCCC) in Wilsonville, Alabama.

Born in the central part of China, Fanxing relocated with his parents to the northwestern border of China when he was three years old. He earned his B.S. and M.S. degrees in chemical engineering at Tsinghua University in Beijing and a Ph.D. in Chemical Engineering at Ohio State in 2009.

Fanxing has received several honors and awards including the American Institute of Chemists (AIC) Award for Outstanding Postdoctoral Researchers as well as the AIChE Particle Technology Forum (PTF) Best PhD in Particle Technology Award, and their Best Paper Award.

Fanxing taught CHE 205 during the fall 2011 semester. His research interests include biomass and fossil energy conversion, carbon dioxide capture, and particle technology. The ultimate goal of Fanxing’s research is to develop efficient, environmentally friendly, and cost-effective energy conversion technologies.

Fanxing and his wife, Ping Chen, have a daughter, Stella. His personal interests include video games, basketball, and billiards. Knowing nothing about American football before entering the US in 2004, Fanxing morphed into a Buckeye fan at Ohio State.

Greg Reeves joined our department in August 2010 as an assistant professor. After graduating from Princeton University with his Ph.D. in Chemical Engineering in 2008, he completed a post-doctoral assignment at the California Institute of Technology.

His academic honors include a Jane Coffin Childs Memorial Fellowship, an NSF Graduate Fellowship, and postgraduate fellowships from both the Southeastern Conference and the NCAA.

Greg earned B.S. degrees in chemical engineering and mathematics at the University of Florida in 2002. As an undergraduate, he was a varsity swimmer specializing in the butterfly and individual medley. In 2001, Greg was the SEC champion in the 400 yard individual medley; he placed fourth in the nation in this event, and he finished third in the nation in the 200 yard butterfly.

Greg’s research is focused on control of the cell-cell signaling events that direct cellular decisions, using the fruit fly embryo as a model system. In adults, cell-cell signaling events control the potency and decisions of adult stem cells, while improper signaling can lead to diseases such as cancer. Greg’s long-term goal in his research is to develop novel strategies for tissue engineering, and he plans to teach a specialty course on the dynamics of biological systems.

Greg and his wife, Baley, met as students at Princeton, and their first son, Cameron, was born in May 2011. Greg’s current interests include swimming, playing water polo, and reading. He’s the co-director of the local chapter of Ratio Christi, a student club focused on critical thinking, and he’s an active member in his church.

Phillip R. Westmoreland came to the department in August 2009 as a professor and as Executive Director of the NCSU Institute for Computational Science and Engineering. His research focuses on experimental and computational kinetics and reaction engineering. The main technology driver of his research is clean energy from fossil and biofuels, and he’s also been involved with developing fire-safe polymers, rocket fuels, and plasma processing of microelectronics.

Phil’s degrees are in chemical engineering from N.C. State (BS ’73), LSU (MS ’74), and MIT (PhD ’86). He was on the ChE faculty at the University of Massachusetts Amherst from 1986-2009, and he served as a Program Director at the NSF during 2006-2009. His professional accomplishments include being a Fellow of AIChE, a member of its Board of Directors, and past president of the educational nonprofit CACHE Corporation. He was the founding Chair of AIChE’s Computational Molecular Science and Engineering Forum (CoMSEF), and he has received the Gary Leach Award and the George Lappin Award of AIChE, and ASEE’s Corcoran Award.

Phil and his wife, Kathleen J. Beach M.D. of GlaxoSmithKline, have been enjoying re-learning about North Carolina, including hiking, canoeing, kayaking, and swing dancing. Their daughter Ariel is a junior in Technical Theater at Carnegie-Mellon, and their son Nate is newly employed with Booz-Allen Hamilton in Washington DC. Phil would be delighted to hear from his classmates from ChE ’73!
Faculty News

Faculty Awards and Honors – Due to the large number of faculty awards and honors, the following list is a partial compilation. For a complete list, please see the department’s web site at http://www.che.ncsu.edu/about/honors.html.

Lisa Bullard was promoted to the rank of Teaching Professor. In addition, she received the 2010 Raymond W. Fahien Award from the Chemical Engineering Division of the American Society for Engineering Education, was named an Alumni Distinguished Undergraduate Professor, and was one of fifty-three of “the nation’s most innovative young engineering educators” selected to participate in the National Academy of Engineering’s Frontiers of Engineering Education symposium in December 2010.

Joe DeSimone received the Harrison Howe Award (2010) from the Rochester, NY section of the ACS (forty percent of its recipients have been awarded the Nobel Prize in chemistry). In 2010 he also received the AAAS Mentor Award which recognizes AAAS members who have mentored significant numbers of students from underrepresented groups towards a Ph.D. In 2009, Joe received the North Carolina Award for Science, the highest civilian honor bestowed by the State of North Carolina, and in 2008 he was named the Tarheel of the Year by the Raleigh News & Observer.

Michael Dickey received a Faculty Early Career Development Award, which is one of the highest honors given by the National Science Foundation to early-career faculty in science and engineering, and in 2011 he received a Sigma Xi Young Researcher Award.

Peter Fedkiw was selected as one of two Alumni Distinguished Graduate Professors in 2009 by the NC State Graduate School. Peter’s selection was recognized at the NC State Honors Baccalaureate Celebration of Academic Excellence event.

Rich Felder won a 2010 Global Award for Excellence in Engineering Education from the International Federation of Engineering Education Societies. In 2008, “Elementary Principles of Chemical Processes”, co-written by Rich and former faculty member, Ronald Rousseau, was named one of thirty Groundbreaking Chemical Engineering Books by the AIChE.

Michael Flickinger was elected to the 2009 Class of Fellows of the American Chemical Society, which is the inaugural class of ACS fellows. Michael donated a first edition Encyclopedia of Industrial Biotechnology, a 7 volume set, of which he is editor, to the D.H. Hill Library.

Jan Genzer was named the Celanese Professor in Chemical and Biomolecular Engineering.

Christine Grant received the 2009 Council for Chemical Research (CCR) Diversity Award for her impact on the advancement of minorities, women and underrepresented groups within chemistry based-sciences and engineering, and was selected to receive the 2011 Winifred Burks-Houck Women’s Professional Leadership Award from the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE).

Keith Gubbins has been selected to receive the 2012 Foundations of Molecular Modeling and Simulation (FOMMS) Medal. He’s the second recipient of the Medal, which was first awarded in 2009. Keith is also the 24th recipient of the R. J. Reynolds Tobacco Company Award for Excellence in Teaching, Research, and Extension. He received the bi-annual 2012 Rossini Lectureship Award from the International Association of Chemical Thermodynamics, and he was awarded the Medal of Merit from Adam Mickiewicz University in Poznan, Poland.

Carol Hall delivered the 2009 Lacey Lectures in Chemical Engineering at the California Institute of Technology and the Kelly Lecture at Purdue University, and she was elected to the AIChE Board of Directors for a three year term, 2009-2012.

Jason Haugh was promoted to the rank of Professor.

Saad Khan is the 26th recipient of the R.J. Reynolds Tobacco Company Award for Excellence in Teaching, Research and Extension, and he was selected as an Alumni Outstanding Research Award recipient for 2008-2009. This award is one of the highest honors a faculty member can receive at NC State.

Greg Parsons was selected for an Outstanding Teacher Award and became a member of the Academy of Outstanding Teachers.

Rich Spontak was named a fellow of the American Physical Society in 2009 for his pioneering contributions in electron microscopy and electron microtomography of multiphase polymer systems. Also in 2009 he was selected to receive the Outstanding Mid-Career Teaching Award from the ASEE Southeast Section, and he was recognized with the Colwyn Medal from the Institute of Materials, Minerals and Mining during an October 2011 awards ceremony in the United Kingdom.
The institute awards the Colwyn Medal every two years for outstanding scientific, technical or engineering contributions to the rubber industry.

Orlin Velev has been named the INVISTA Professor in Chemical and Biomolecular Engineering. In addition, he was named a fellow of the American Chemical Society, was selected as a recipient of the Alumni Association Research Award for 2009-2010, and he received the 2010 Alcoa Foundation Distinguished Engineering Research Award.

Phil Westmoreland has been elected President of the American Institute of Chemical Engineers (AIChE) in this year’s vote of the membership. Phil will assume yearlong positions as President-Elect in January 2012, President in 2013, and Past President in 2014.

In 2008, the AIChE honored Keith Gubbins, Carol Hall and Joe DeSimone by selecting them as three of the “100 Engineers of the Modern Era.”

Ten engineering faculty members were recognized during the 2009 Innovation Showcase and Awards Ceremony hosted by the NC State Office of Technology Transfer and the Council for Entrepreneurial Development. CBE researchers recognized for patents issued during 2009 were Orlin Velev, Ruben Carbonell and George Roberts (deceased). Three faculty members were honored for their roles with start-up companies: Ruben Carbonell, Ligamar; and Peter Fedkiw and Saad Khan, Tec-Cel Inc.

Research Tidbits

After eight years of research, development and medical trials, the Advisory Committee for the Safety of Blood, Tissues and Organs (SaBTO) in the UK has publicly verified that the P-Capt® prion reduction filter that Ruben Carbonell and several of his graduate students helped to develop effectively reduces prion infectivity in blood. The filter, which ‘cleans’ blood prior to use, removes the prion responsible for variant Creutzfeldt-Jakob disease (widely known as “Mad Cow” disease), and is currently undergoing multi-centre evaluations (pre-adoption studies) by the National Blood Transfusion Services of the UK and Ireland.

Henry Lamb and Bill Roberts (MAE) are collaborating with researchers at Arizona State University to produce drop-in replacement jet fuel from fatty acids secreted by cyanobacteria (blue-green algae) grown in large-scale photobioreactors.

Rich Spontak, Jan Genzer and their student Evren Ozcam participated in a project that was nominated for the Innovative Product of the Year Award by the Institution of Chemical Engineers (IChemE) in an international competition. The project, “High-throughput/efficiency recycling and post-modification of PET: A success story in Adding Waste Value” was sponsored by United Resource Recovery Corporation, a company founded by CBE alumnus and member of the department’s Alumni Advisory Board, Carlos Gutierrez.

The U.S. Department of Energy has awarded our Department a $1.2 million grant to build and study nanostructures that can inexpensively convert sunlight or heat into electricity with little impact on the environment. Greg Parsons, who directs the NC State Nanotechnology Initiative, an interdisciplinary group that coordinates nanotechnology research across the university, is the lead researcher for the grant.

A research team led by Orlin Velev has shown that water-gel-based solar devices — “artificial leaves” — can act like solar cells to produce electricity. The findings prove the concept for making solar cells that more closely mimic nature. The work was published online in the Journal of Materials Chemistry and was highlighted in the October 4, 2010 issue of Chemical and Engineering News.

Joe DeSimone’s group is focused on applying lithography fabrication technologies from the computer industry for the design and synthesis of new medicines and vaccines. The group has developed a fabrication technology called PRINT. With PRINT, they are able to generate “calibration quality” nano-tools to define the geometric, surface, and deformability limitations associated with the delivery of drugs and vaccines using different dosage forms. DeSimone recently launched Liquidia Technologies, which employs 50 people in RTP and has raised over $60 million in venture financing, including the first ever equity investment by the Bill and Melinda Gates Foundation in a for-profit biotech company. Liquidia recently brought its first product, a seasonal influenza vaccine based on PRINT particles, into its first clinical trial.

Greg Parsons, Jesse Jur, assistant professor of textile engineering, chemistry and science, and post-doctoral researcher Christopher Oldham, were recipients of funding through the Chancellor’s Innovation Fund (CIF) to enhance the commercial value of their creation of nanoscale finishes that protect fabrics from UV radiation. CIF was established to address funding gaps between the lab and the marketplace, and to help in the development, protection and advancement of ideas and discoveries assigned to NC State.
Staff News

Kathleen Berding and Angela Efimenko joined the staff.

Diane Harper was selected for a Pride of the Wolf-pack Award. Diane was presented with a plaque with the framed Award and also a framed Award citation at a CBE staff meeting.

Sheila Hayes received the N.C. State Facilities Operations Building Liaison Golden Wrench Award. Sheila also received a 2009 College of Engineering Award for Excellence and was one of five NC State employees who were selected for a 2009 University Award for Excellence.

Gwen Johnson retired after nearly 20 years of service with the department, and 10 years of service with the Department of Animal Science.

Shirly Kow received a 2010 College of Engineering Award for Excellence.

Clarice Whitmarsh retired after 7 years of service with the department and after 22 years with the University.

Hubert Winston received a 2009 College of Engineering Award for Excellence.

Alumni Become Department Chairs

John Weidner (PhD ‘91) was named Chair of the Department of Chemical Engineering at the University of South Carolina and Heath Turner (PhD ‘02) was named Interim Chair of the Department of Chemical & Biological Engineering at the University of Alabama.

Other alumni who are currently department chairs include Karen Burg (’90) at Clemson, Bruce Locke (PhD ’89) at Florida State and Hal Monbouquette (PhD ’87) at UCLA. In the past Jim Ferrell (PhD ‘54) at NC State, Charlie Holland (’43) at Texas A&M, Charlie Littlejohn (MS ‘41) at Clemson, Don Martin (PhD ‘65) at NC State, Robert McAlister (’47) at Texas Tech, John McGee (PhD ’66) at Tennessee Tech, Don Paul (’61) at the University of Texas, Charlie Plank (’49) at the University of Louisville, Russ Rhinehart (PhD ’85) at Oklahoma State, and Phil Westmoreland (’73) at the University of Massachusetts have served as department chairs.

Candis Claiborn (PhD ’91) is Dean of Engineering and Architecture at Washington State University, and Karen Bur (’90) is Interim Vice Provost and Dean of the Graduate School at Clemson.

ChE Students Participate in the Engineering Entrepreneurs Program

Jodie Green, Brandon Moore, and Chip Reap (2011), designed a bath mat that changes colors as a function of temperature.

Since 2009, several ChE students have elected to participate in the Engineering Entrepreneurs Program (EEP) as a substitute for enrolling in the CHE 450/451 senior design sequence. The EEP is a College of Engineering umbrella program for students whose career interest is to create, or work for, a technology based start-up company. Students in the program participate on multi-disciplinary “eTeams,” which apply “engineering, mathematics, basic sciences, finance, and business to the design and development of prototype engineering products.”

Along the way, the eTeams conceptualize, fabricate and test product prototypes, then develop business and marketing plans for the start-up companies that would market the final product. In addition to being eTeam members, students participate in a “Toy Building Competition” where they form teams which design and build a toy for kindergarten students at the Fred A. Olds Elementary School. Former EEP participants include: Donald J. Barnes, the first employee of Red Hat software; student entrepreneurs Bill Nussey and Chris Evans who created DaVinci Systems, one of the world’s leading email products; Scot Wingo, who co-founded Stingray Software, then co-founded AuctionRover.com. Watch out Bill Gates, NC State eTeams are on your heels!
Student News – Graduate

Sumit Gangwal was awarded a 1st place poster award for his contribution “Induced-Charge Electrophoresis of Metallodielectric Janus Particles” presented at the AIChE 2009 annual meeting.

Jairus Kleinert won third place at the 2008 National AIChE Meeting in the Nanoscale Science and Engineering Forum Division with his poster, “Electric Field-Assisted Convective Assembly of Large-Domain Colloidal Crystals.”

Arjun Krishnan was selected for the first-place poster award in the Engineering Division of the 5th Annual Graduate Student Research Symposium (2010). Arjun’s poster was titled: “Selectively Solvated Block Copolymers upon (Electro) Mechanical Deformation.

Christina Tang was one of 22 graduates of Preparing the Professoriate who were honored by Provost Warwick Arden and Graduate School Dean Duane Larick for having completed the Preparing the Professoriate program in 2010. The program is designed for advanced doctoral students who are interested in a faculty career.

Charlotte Cooper won an Outstanding Student Poster Award at the 2010 American Society for Microbiology’s annual meeting in San Diego. Only 40 posters were selected as outstanding from over 3100 posters presented at the meeting. Charlotte’s poster was entitled: “Impact of VapBC Toxin-Antitoxin gene perturbations on microbial fitness of the extreme thermoacidophile Sulfolobus solfataricus during stress response.”

Sara Arvidson won a best paper award at the Nonwovens Cooperative Research Center Meeting in May 2010. And she won second place in oral presentation at the NC American Chemical Society Polymer Group, also in May 2010.

Ravish Malik won best poster at the NC American Chemical Society Polymer Group in May 2010.

Joshua McClure won second place in the student poster competition on October 11, 2010 at the Electrochemical Society Meeting. Josh’s poster, titled “Non-noble metal graphene as oxygen reduction catalyst in portable alkaline fuel cells,” was selected by a panel of judges from the 106 student posters submitted by U.S. and international research groups.

Mahmud Hussain received a best poster award at the 2011 annual program review of the Defense Threat Reduction Agency for his poster, “Engineering Hyperthermophilic Scaffolds for Biomolecular Recognition.”

Kristen Roskov won first place in the Engineering category and Mahmud Hussain won first place in the Life Sciences category at the Sixth Annual NC State University Graduate Student Research Symposium that was held March 21, 2011 at the McKimmon Center. There were 193 poster presentations representing research being conducted in 65 graduate programs from all colleges.

Schoenborn Award

Our senior graduate students compete annually for the Schoenborn Award by giving an oral presentation of their work to faculty and other graduate students. Congratulations to the most recent Schoenborn Award first place recipients, Vinayak Rastogi (2009), Salo Turgman (2010), and Chris Bonino (2011). A list of previous award winners can be found on our website at http://www.che.ncsu.edu/about/history/AIChEAwards.pdf.

CBE Alumni Advisory Board

The CBE Alumni Advisory Board meets annually to help promote our department. We thank the following board members for their service to the department:

John Chambard (’97), Norvin Clontz (’65), Ana Davis (’91), John Davis (’91), John Earnhardt (’63), Tommy Gibson (’74), Carlos Gutierrez (’60), Randy Jester (’75), Mike McLean (’74), Nate Miranda (PhD ’94), Russ O’Dell (’75), Ann Quillian (’86), Allen Tothill (’65), Alan Weinberg (’63), Tamie Wells (’92), Jim Williamson (’85) and Bill Willis (’76).

Engineering Foundation

The Board of Directors of the NC State Engineering Foundation has three members who are chemical engineering alumni. They are Frank Culberson (’60), Jeff Garwood (’84) and Carlos Gutierrez (’60). The board works with the Engineering Foundation to promote the College, to increase financial support for the College, and to advocate before the General Assembly.

Like us on Facebook

Stay connected with classmates, colleagues, job postings, and other relevant matters through our social media groups on LinkedIn and Facebook.
Jeff Garwood Creates Liberation Capital

Jeff Garwood (’84) is the Founder and Managing Member of Liberation Capital, a global private equity firm founded in 2010 and headquartered in Charlotte, NC. Liberation Capital specializes in providing project finance for “modular, repeatable, decentralized” CleanTech solutions such as alternative energy, wastewater treatment and water reuse. The private equity company focuses on small infrastructure projects with a preference for technologies and solutions that turn waste products into constituents of value. In June 2011 Liberation Capital completed a $55 million first round of funding – and is preparing to move toward a second capital raise. Jeff is formerly the President and CEO of GE Water & Process Technologies – a $2.5B global infrastructure business. Jeff began his career at DuPont and McKinsey & Co, and was COO at Commerx and Youcentric.

Carlos Gutierrez Named 2010 Distinguished Engineering Alumnus

Carlos Gutierrez (’60) has been named a 2010 Distinguished Engineering Alumnus at NC State. Carlos serves on our Alumni Advisory Board and also on the NC State Engineering Foundation Board. He and his wife, Barbara, have endowed the Carlos D. and Barbara Hoyle Gutierrez Scholarship in our department. Carlos and Barbara teamed up to create four companies: Unisphere Chemicals, which specialized in the development and manufacture of surfactants for the textile and cosmetics industries, G&H Industries, which managed several manufacturing plants for DuPont, URRC, which recovers silver and PET from x-ray films and NURRC, a joint venture with Coca-Cola that built the largest bottle-to-bottle polymer recycling plant in the world. Carlos is President and CEO of URRC.

Emmett Crawford Receives 2010 Gordon E. Moore Medal

Emmett Crawford (’93) won the 2010 Society of Chemical Industry Gordon E. Moore Medal for the invention of Eastman Tritan™ copolyester and leadership in the development and commercialization of this new family of engineering plastics. Tritan™ Copolyester is recognized for its extraordinary clarity, toughness, and heat and chemical resistance; it is used in several markets including sports water bottles, small appliances and consumer housewares, as well as medical devices and packaging. Emmett is a senior research associate at Eastman Chemical Company in Kingsport, TN.
Clyde Moore Receives Bryant Mather Award

Clyde Moore (‘50) was honored by ASTM International with the Bryant Mather Award in 2008 to "recognize the outstanding contribution to the cement industry by authoring the book Control of Portland Cement Quality." After distinguished service in the US Air Force, Clyde joined Lone Star Industries in 1963 as a chemist at their Norfolk, VA cement plant. He developed methods of analysis for cement and its raw materials and systems for on-line control of cement raw mix using x-ray emission instrumentation. He became plant manager of the calcium aluminate cement plant of Lone Star Lafarge, and returned to Lone Star where he retired from the position of Vice President of Production for the Pyrament® Division.

Russ O’Dell Receives 2010 AIChE Outstanding Chapter Advisor Award

Russ O’Dell (‘75, PhD ‘78) received the 2010 AIChE Outstanding Student Chapter Advisor Award. He has been advisor of our AIChE Student Chapter since 2007. The award was presented at the 2010 Annual Student Conference in Salt Lake City, UT and included a grant of $1,000 for the student chapter. The nomination cited a large increase in student membership, the number and variety of chapter activities, and the number of students attending the national and regional conferences, with many presenting papers and posters or leading workshops. Russ works in the NC State Engineering Foundation as Director of Development for our department.

Phil Westmoreland Elected President of AIChE

Phil Westmoreland (‘73) has been elected President of the American Institute of Chemical Engineers (AIChE) in this year’s vote of the membership. Phil will assume yearlong positions as President-Elect (2012), President (2013) and Past President (2014). He was named a Fellow of AIChE in 2005, and has been an active member for close to 40 years, dating back to when he was a ChE undergraduate in our department. Phil has served on the AIChE board of directors, and throughout his career he’s received numerous awards and recognitions from the AIChE, and has served in many of its leadership positions. Phil joined the faculty of our department in 2009 and serves as the Executive Director of the NCSU Institute for Computational Science and Engineering.
Alumni Notes

Clyde Moore ('50) was honored by ASTM International with the Bryant Mather Award. (See story on page 13).

Robin Gardner ('56, MS '58) received the 2009 Arthur Holly Compton Award from the American Nuclear Society. Robin is a professor of nuclear engineering at NC State.

Bill Moxley ('58) served as President of the Lions Club in Kinston in 2011. Bill is retired from DuPont and living in Kinston.

Frank Culberson ('60) received the 2011 Menscer Cup for his contributions to NC State University through outstanding philanthropy and fundraising leadership. Recipients are individuals who have set high standards for future leaders to follow, and who have provided creative enhancements to fundraising, endowment management, and alumni services. Frank is chairman and former chief executive of Rimkus Consulting Group in Houston.

Carlos Gutierrez ('60) has been named a 2010 Distinguished Engineering Alumnus at NC State. Carlos is President and CEO of United Resource Recovery Corporation, a PET recycling company, in Spartanburg, SC. (See story on page 12).

Don Paul ('61) received a 2008 AIChE Founders Award for Outstanding Contributions to the Field of Chemical Engineering at the Annual Meeting in Philadelphia. Don holds the Ernest Cockrell, Sr. Chair in Engineering at the University of Texas at Austin.

Dick Munday ('66) retired on September 1, 2011 after 33 years at 3M. He lives in Stillwater, MN.

Michael Overcash ('66) has been named the Sam Bloomfield Distinguished Chair and Professor in Sustainable Materials and Energy Systems at Wichita State University.

Jim Bray ('69) served as interim CEO of Natrix Separations and is now a member of their Scientific Advisory Board. Natrix Separations is a leading supplier of high performance chromatography products to the life science, food, beverage and water markets.

Joe Dyer ('69) was named to the Theta Tau Professional Engineering Fraternity’s Alumni Hall of Fame. Joe oversees day-to-day operations at iRobot as the Chief Operating Officer.

Hubert Winston ('70, PhD '75) received a 2009 College of Engineering Award for Excellence. Hubert works part-time for our department.

Ernie Alexander (PhD '72) has been named a 2010 Distinguished Natural Resources Alumnus at NC State. Ernie retired from MeadWestvaco in 2009 and is now Owner and Manager of B&E Consulting. He also works in the Development Office of the NC State College of Natural Resources.

Frank Louzek ('72) has taken a job with Det Norske Veritas Certification, in Atlanta, GA as their LEED(r) Certification Manager. LEED is the US Green Building Council’s “Leadership in Energy and Environmental Design” green building rating system.

Mack Bailey (PhD ’73) has retired from teaching chemistry and coaching the swim team at Rock Hill High School.

Phil Westmoreland ('73) has been elected President of the American Institute of Chemical Engineers (AIChE) in this year’s vote of the membership. (See story on page 13).

Russ O'Dell ('75, PhD '78) received the 2010 AIChE Outstanding Student Chapter Advisor Award. (See story on page 13).

Kent Hudson ('75) is the CEO and co-founder of SchoolDude.com, a company which provides on-demand software to educational institutions for facility, IT and business operations. SchoolDude.com won a 2009 Steve Award for being the “front-line customer service team of the year.”

Billy Willis ('76, PhD ‘81) was named Chief Technology Officer for Duke University Health System. Billy’s daughter, Liz, received second team All-American honors in Division II volleyball. As a four year setter at Wingate University, she finished her career with an overall record of 130-9, going 112-3 in regular season contests and 68-0 in conference matches. Liz was also named an Academic All-American.

Bentley Park ('81) has been appointed President of the Vertellus Agriculture and Nutrition business. Vertellus is a specialty chemicals company focused on the manufacture of ingredients used in pharmaceuticals, personal care, nutrition, agriculture, and a host of other market areas affected by trends favoring “green” technologies and chemistries.

Phil Cline ('82) was named Operations Manager for Innospec Active Chemicals in High Point, NC.
Ellis McGaughy ('82) was named Site Manager for the DuPont Fayetteville Works. Benny Freeman ('83) was named an AIChE Fellow in 2011. He received the 2008 AIChE Institute Award for Excellence in Industrial Gases Technology at the Annual Meeting in Philadelphia. Benny is the Kenneth A. Kobe and the Paul D. and Betty Robertson Meek & American Petrofina Foundation Centennial Professor of Chemical Engineering at the University of Texas at Austin. Kevin Hennings ('83) was named Executive Vice President of the J.S. Clark Company’s Mount Airy Division. Kevin also was named Vice President of Design, Inc of NC, Clark’s wholly owned subsidiary. Cliff Game ('84) was named 2010 Engineer of the Year by the US Navy - Naval Air Systems Command. The National Society of Professional Engineers also selected Cliff as a top ten finalist for 2010 Federal Engineer of the Year. Jeff Garwood ('84) is the Founder and Managing Member of Liberation Capital. (See story on page 12). Tracy (Proctor) Mustin ('84) was appointed Chief of Staff of the National Nuclear Security Administration. Tracy was awarded the 2007 Homeland Security Medal. Grace (Patton) Allen ('85) was named Plant Manager of Procter & Gamble’s Lima, OH facility in August 2009. Elin Gabriel ('85) was appointed COO of Alvogen in May 2010. Alvogen is a multinational pharmaceutical company focused on complex generic products. Elin is based at corporate headquarters in Parsippany, NJ. Steffanie (Burt) Easter ('85) received the Black Engineer of the Year Award for Professional Achievement in Government on February 20, 2010 at the 24th annual Black Engineer of the Year Gala in Baltimore, MD. Steffanie is the assistant deputy chief of naval operations for manpower, personnel, training and education. Greg Hatem ('85) will open a food processing facility in Halifax County called Empire Foods. The company will initially focus on selling large packages of fruits and vegetables to hotels, restaurants, school systems, the military and other institutions. Mike Rosendale ('85) graduated Magna Cum Laude with a BSN Nursing from Virginia Commonwealth University in December 2006 and is now employed as a Registered Nurse. Gary Gilleskie ('86) was named Associate Director of Operations for the Biomanufacturing Training and Education Center at NC State University. Theresa Snyder ('86) was promoted to Corporate Account Executive at Fisher HealthCare. She works out of their Houston, TX office. George Welsh ('87) was named Plant Manager of the Albemarle Corporation site in Pasadena, TX. Bruce Locke (PhD ’89) was named a Distinguished Research Professor at Florida State. Each recipient receives a one-time award of $10,000 along with a framed certificate. Karen Burg ('90) was appointed Interim Vice Provost and Dean of the Graduate School at Clemson University. She was elected president of the Society for Biomaterials, a professional society for scientists and engineers who study cells, tissues and organs. Janine Carlan ('90) was recognized by the National Diversity Council as one of the Most Powerful and Influential Women of 2010. Jeff Dugas ('90) served as an orthopaedic sports medicine consultant to the United States Olympic teams during the 2009 Summer Olympic Festival in Chula Vista, California. Jeff is an orthopaedic surgeon at Andrews Sports Medicine and Orthopaedic Center in Birmingham, AL. Ana (Piqueras) Davis ('91) was promoted to Head of Health, Safety, Environmental and Security for Syngenta’s North American operations. Mike Reece ('91) and his wife, Mary, have started a law practice in Smithfield, appropriately named Reece & Reece. Mike and Mary specialize in criminal and appellate law, respectively. Hari Mahadevan (PhD '91) is the managing partner of the healthcare vertical at Rosetta. He and his wife, Mina (PhD '89) live in Princeton, NJ. Hinesh Patel ('91) accepted a position as Vice President of Strategy & Business Development for Hillenbrand Inc. He will be relocating to the company headquarters in Batesville, IN with his wife Rita and two daughters, Maya and Mena. John Weidner (PhD '91) was named Chair of the Department of Chemical Engineering at the University of South Carolina. Stacy Agar ('92) earned a PhD in Microbiology and Immunology at the University of Texas Medical Branch in Galveston, TX.
Alumni Notes (continued)

Hank Ashbaugh ('92) is working hard to unravel the mystery of unstructured proteins in the human genome, and he's on a roll. An assistant professor of chemical and biomolecular engineering at Tulane, he has received a National Science Foundation CAREER Award and $431,000 in research funding for a five-year study.

Emmett Crawford ('93) won the 2010 SCI Gordon E Moore Medal for the invention of Eastman Tritan™ Copolyester and leadership in the development and commercialization of this new family of engineering plastics. Emmett is a research associate at Eastman Chemical Company in Kingsport, TN. (See story on page 12).

Tim Holbrook ('93) has moved to Atlanta, GA to be a Professor of Law at the Emory University School of Law.

Susan Bradley ('94) was named EMDC Safety Supervisor at ExxonMobil Development Company in Houston, TX. Susan just returned from a two year assignment in Australia.

Nick Clausi ('94) was named plant manager of the ExxonMobil Plastics Plant in Baton Rouge, LA.

Trent Carrier ('94) was appointed Executive Director, Business Strategy for Biologics Consulting Group in May 2011. Biologics Consulting Group is an international consulting firm whose consultants provide national and international regulatory and product development advice on the development and commercial production of biological, drug, and device products. Trent is based at corporate headquarters in Alexandria, VA. Trent obtained an MBA from the UVA Darden Graduate School of Business Administration in 2010.

Ryan Kudva ('94) was promoted to supervisor of the reservoir properties section at ExxonMobil Upstream Research Company in Houston, TX.

Rusty Cantrell (PhD '95) was awarded second place for Best Overall Paper at the 2011 BACUS Photomask Conference, in Monterey, CA, for the presentation of his article, “More than monitoring: Advanced lithographic process tuning”. Rusty is a senior process engineer at the Advanced Mask Technology Center in Dresden, Germany.

Tammy (Rhome) Wright ('95) was named executive director of Lakeland Vision, a non-profit whose goal is to create and implement a comprehensive, action-oriented plan for the future of the greater Lakeland, FL region.

Trey Robinson ('95) was named partner at Scott-Madden, a management consulting firm delivering customized solutions for clients in energy, clean tech and infrastructure, corporate and shared services, and the federal government. Trey works out of the Raleigh office.

Graham Snyder ('95) was recognized by the News and Observer as “Tarheel of the Week.” Graham is an emergency physician at WakeMed and medical director of the hospital’s Center for Innovative Learning, where doctors hone their skills using high-tech dummies and dramatic portrayals of clinical scenes. Graham noted that his chemical engineering training taught him to work through problems in a systematic way.

Kim (Lewis) Clark ('96) was named Vice President and Chief Customer Relations and Marketing Officer for AREVA. In this executive position Kim is responsible for North America customer relations and marketing activities for the entire AREVA product and services line.

Brian Caveness ('97) has transferred from Wilminton to be Engineering Manager at the Corning facility in midland, NC.

Sharon Chung ('97) was named Director of the Vasculitis Clinic at the University of California, San Francisco. She is also an Assistant Adjunct Professor at UC-San Francisco.

Matthew Morgan ('97) was awarded a Certificate in University Teaching and Teaching Portfolio from the University of Georgia.

Eric Shore ('97) was named plant manager for Performance Fibers in Salisbury, NC.

Benjamin Wilhite ('97) has been elected to the board of directors for the International Symposium on Chemical Reaction Engineering (ISCRE), the premier organization in the field of chemical reaction engineering. Benjamin is an associate professor in the Artie McFerrin Department of Chemical Engineering at Texas A&M University.

Brad Cozart ('98) earned an MBA at the University of Texas at Arlington in 2010. Brad is a maintenance manager at Coca-Cola in Grand Prairie, TX.

Chris McDowell (PhD '98) has assumed pilot plant supervisory responsibilities at Novozymes. He is a senior optimization engineer in their Franklinton facility.

Emily Martin ('99) was promoted to Executive Logistics Leader for GE Energy in Greenville, SC. Her responsibilities include leading the strategy and execution of the GE Energy’s global logistics operations, customs compliance and carrier sourcing.
Daniel Leach ('01) earned an MD from the Brody School of Medicine at ECU in 2009. He entered the Anesthesiology Residency Program at the University of Virginia Health System in Charlottesville, VA.

Tim LeCroy ('01) earned a Master of Divinity degree in 2006, and has begun Doctoral studies in Historical Theology at St. Louis University, majoring on the medieval period. He was ordained as a Pastor on August 23, 2009.

April (Morris) Kloxin ('01, MS '04) earned a PhD in chemical engineering from the University of Colorado – Boulder in 2009. April was hired as an assistant professor of chemical engineering at the University of Delaware in 2011.

Thorin Flynt ('01) has been promoted to Account Manager for Taminco, with responsibility for the Amines Business in Canada, the Midwest USA, and Puerto Rico.

Melody Scott (MS '01) obtained an MBA from Duke's Fuqua School of Business in 2009. Melody is a process engineer at Biogen Idec in RTP.

Amber (Taylor) Collins ('02) earned a PhD in Biomedical Engineering from UNC-CH in 2010.

Kyle Grant ('02) received a PhD in chemical engineering from the University of Pittsburgh and is a Career Development Fellow with the Medical Research Council Virology Unit in Glasgow, Scotland.

Chris Oldham ('02) earned a PhD in Materials Science from NC State in 2009. Chris is a post-doc researcher in the department with Professor Greg Parsons.

Lucas Revellon ('02) earned an MBA at the University of Delaware in 2010. Lucas is a technical sales manager at INTERCAT in Dallas, TX.

Kim (Goodwin) Roberts ('02) earned a PhD in Chemical Engineering from the University of Delaware in 2007. Kim took a position at NC State in academic affairs for the College of Engineering. She advises transfer students and teaches Engineering 101.

Steve Wallace ('02) earned a PhD in Biomedical Engineering from Duke University in 2008. Steve is doing a post-doc in Biomedical Engineering at Duke University in Durham.

Keith Ashcraft ('03) earned a PhD in Chemical Engineering from the University of Texas – Austin in 2008. He is working at Samsung Austin Semiconductor in Austin, TX.

Justin Bennett ('03) earned an MD from the Brody School of Medicine at ECU in 2009. Justin has entered the Emergency Medicine Residency Program at the University of Florida College of Medicine in Gainesville, FL.

Andy Thomasson ('03) earned an MBA at Harvard in 2010. Andy is a staff engineer at Merck in Durham.

Melissa (Travis) Thompson ('03) earned a PhD in Chemical Engineering from the Johns Hopkins University in 2008. She is on a post-doc fellowship at the University of Texas MD Anderson Cancer Center in Houston, TX.

Brooke (Williams) Anderson ('04) earned a PhD in Environmental Engineering from Yale in 2010. She will continue her work as a post-doc at Yale for another year.

Melanie Chin ('04) earned a PhD in Chemical Engineering from MIT in 2010. Melanie is a product development analyst for Reata Pharmaceuticals in Irving, TX.

Chris Foess ('04) received an MBA from Georgetown University in May 2009. He is working as a Senior Financial Strategy Analyst for American Airlines in Fort Worth, TX.

Somesh Peri ('04) earned a PhD in Polymer Science from the University of Akron in 2009.

Jessica (Sharp) Gardner ('04) earned an MD from the Brody School of Medicine at ECU in 2008. She completed a pediatrics residency at Eastern Virginia Medical School in 2011. She is practicing Gastroenterology, Hepatology & Nutrition medicine at Children's Hospital of the King's Daughters in Norfolk, VA.

Bryan Tracy ('04) earned a PhD in Chemical Engineering from Northwestern University in 2009. Bryan is CEO and Lead Scientist for Elcriton, a company he started with Dr. Terry Papoutsakis, his thesis advisor. Elcriton has received Small Business Innovation Research grants from NSF and DOE.

Brent Dixon ('05) earned a PhD in Chemistry from NC State, defending his thesis on August 17, 2009. Brent accepted a post-doc position at Pacific Northwest National Laboratory in the environmental and molecular sciences division.

Michael Marks ('05) earned a PhD in Chemical Engineering from Drexel University in 2011.

Jeff Millman ('05) earned a PhD in Chemical Engineering from MIT and has started a post-doc at Harvard University.
Alumni Notes (continued)

Elizabeth Parrish ('05) earned an MS in Chemical Engineering at Northwestern University in 2008. Elizabeth works for Cook Biotech in West Lafayette, IN.

MacKenzie Short ('05) earned an MD from the UNC School of Medicine in 2009. She has entered the Internal Medicine/Pediatrics Residency Program at the University of Maryland Medical Center in Baltimore, MD.

Sid Usry ('05) received an MS in Aeronautical Engineering from the Air Force Institute of Technology in 2011.

Don (PhD '06) and Kristen Comfort (PhD '07) have moved to Beavercreek, OH to teach at the University of Dayton: Don has joined the ChE faculty and Kristen has taken a part-time teaching position.

Chris Kloxin (PhD '06) was hired as an assistant professor of chemical engineering at the University of Delaware in 2011.

Ryan Nadel ('06) climbed Mt. Kilimanjaro. Ryan is a process engineer at Kimberly-Clark in Loudon, TN.

Elizabeth Nance ('06) was named Site Director of Dunbar High School – Johns Hopkins University Incentive Mentoring Program. The program works with at-risk students at Dunbar High School to help them graduate and go to college.

Jessica Stewart ('06) received an MD degree from Stanford on June 12, 2011.

Katie (Watlington) Burnett ('06) received a J.D. degree from the University of Virginia School of Law in May 2011.

Devdutta Warhadpande ('06) received an MS in Computational Biology/Bioinformatics from Northwestern University in 2009.

Dan Chamblee ('07) earned an MBA from the Poole College of Management at NC State on May 14, 2011. Dan is an Operations Research Analyst at Bank of America in Charlotte.

Shalini Gupta (PhD '07) was appointed assistant professor of chemical engineering at the India Institute of Technology in Delhi, India.

Tim Conaghan ('10) is a supervisor at Nan Ya Plastics Corporation.

Jodi White ('10) earned an MS in Chemical Engineering from Auburn in 2011. Jodi is a project engineer at Flatrock Engineering & Environmental in San Antonio, TX.

Marriages

Mack Bailey (PhD '73) and Shirley Holland, June 11, 2011. Mack retired in June 2011; he and Shirley live in Rock Hill, SC.

Theresa Parker ('85) and Dan Zook, September 25, 2010. Theresa is maintenance lead for Miller-Coors Brewing in Eden.

John Tilley ('86) and Trang Ta, August 6, 2011. John is a senior staff engineer in engineering services at Phillip Morris USA.

Allison Hardy ('97) and Scott Grainger, June 20, 2009. Allison is the Finance and HR Manager for Blue Ridge Bedding & Furniture in Brevard, NC.

Emily Martin ('99) and Kurt Ellis, December 28, 2009. Emily is the Executive Logistics Leader for GE Energy in Greenville, SC.

Dipa Shah ('01) and Brian Hutchinson, October 10, 2009. Dipa is a postdoctoral associate at MIT in the Teaching and Learning Lab.

Courtney Griffin ('02, MS '03) and Paul Change, November 5, 2011. Courtney works for United Therapeutics in RTP.

Brock Harris ('02) and Kira Brice, March 19, 2011. Brock is a pediatric clinical pharmacy specialist at Hemby Children’s Hospital in Charlotte, and Kira is a professor at Wingate University School of Pharmacy.

Billie-Jean Savage ('02) and Tim Ferguson, September 12, 2009. Billie-Jean has a sales role with Novozymes in Franklinton. Tim is a Black-hawk pilot stationed at Ft. Wainwright in Alaska, so they have a VERY long distance marriage.

Natasha Bingham ('03) and Dustin Sartin, April 2, 2011. Natasha is a technical sales representative at GE Water and Process Technology in Baton Rouge, LA.

Garett Franklin ('03) and Linsi McAfee, November 27, 2010. Garett is a medical student at the ECU Brody School of Medicine.

Terry Goss ('03) and Jennifer Delamar, June 26, 2010. Terry is a biosolids processing specialist at AECOM consulting in Philadelphia.

Ursula Papp ('03) and Jason Myrs Webb, November 1, 2008. Ursula is currently working part-time for Grifols Biotherapeutics in Clayton.
Karen Rackley (’03) and Richard Marsh, April 24, 2010. Karen is an associate engineer with Environmental Resources Management (ERM) in Raleigh.

Eric Blanchone (’04) and Sarah Dean, November 5, 2011. Eric is employed at Merck in Durham.

Matt Cain (’04) and Sarah Canterbury, September 18, 2010. Matt is an attorney with the Moore & Van Allen Law Firm in Charlotte, NC.

Melanie Chin (’04) and John Angelos, May 15, 2010. Melanie received a PhD in Chemical Engineering from MIT, and is now a product development analyst at Reata Pharmaceuticals in Irving, TX.

Tom Rajala (’04) and Heidi Perreault (SZO ’03, DVM ’07), May 16, 2009 on the island of St. Johns. Tom is a process engineer at NNE Pharmaplan in Morrisville.

Jebina Rajbhandari (’04) and Andrew Mills, October 3, 2009. Jebina is a senior process engineer at FMC Corporation in Pasadena, TX.

Brekke Scholtens (’04) and Robbie Coffman, May 3, 2008. Brekke is a cryogenics research engineer at NASA John F. Kennedy Space Center in Cape Canaveral, FL.

Joe Skipper (’04) and Stephanie Lewis, July 23, 2011. Joe is Director of Plant Operations at SCR-Tech/CoaLogix in Charlotte.

David Day (’05) and Becky Clark, July 16, 2011. David is a process engineer at SNF Floquip in Riceboro, GA.

Melissa Evans (’05) and Josh Copeland, December 13, 2008 in Beaufort, NC. Melissa is a regional account manager for Milliken & Company in Spartanburg, SC.

Chinlun Jou (’05) and James Huang, July 5, 2008. Chinlun is a process technical support specialist at Tosoh Bioscience.

Kate Schadel (’05) and Chris Shaul (’05), August 22, 2009 in Buffalo, NY. Kate will defend her PhD in chemical engineering at SUNY-Buffalo in November, 2011 and Chris works for DuPont in Columbus OH.

Brenda Sepulveda (’05) and Roberto Villarreal, December 30, 2010. Brenda is an engineering consultant in Dallas, TX.

Robbie Williams (’05) and Jessica Hunt, October 3, 2009. Robbie works for Hospira in Rocky Mount.

Paul Antalik (’06) and Amy Holleman, May 21, 2011. Paul is a process engineer with PetroAlgae in Melbourne, FL.

Jeff Brumbaugh (’06) and Sara Pierce, May 21, 2011. Jeff is a process control engineer with Valero in Port Arthur, TX.

Carl Cox (’06) and Allison Keese, November 22, 2009. Carl works for ExxonMobil in Mont Belvieu, TX.

Meredith Fulp (’06) and David Mackey, June 18, 2009. Meredith is working at DuPont in Parkersburg, WV.

Maryn Heerman (’06) and Matthew Hilkin, September 4, 2011. Maryn works for FPL Group in Cedar Rapids, IA.

Eric Hickman (’06) and Colleen Guenther, March 27, 2010. Eric is an Engineer II in Cell Culture Development at Biogen Idec in RTP.

Brian Lopatka (’06) and Sarah Elizabeth Canter, July 23, 2011. Brian is a department manager at Procter & Gamble in Greensboro.

Robby Moorefield (’06) and Anna Cunningham, June 19, 2010. Robby is a process engineer at AkzoNobel in Salisbury, NC.

Brian Prevo (PhD ’06) and Colleen Conway, October 16, 2010. Brian was promoted to senior scientist at Cabot Corporation in 2010.

Katie Watlington (’06) and Jamie Burnett, May 29, 2010. Katie is clerking in the Eastern District of Virginia for a federal judge.

Jessica Willems (’06) and Aaron Creech (Textiles ’06), May 30, 2009. Jessica received a pharmacy degree from UNC-CH in 2010 and is a pharmacist at CVS Pharmacy in Wake Forest.

Corey Allen (’07) and Jenny Hsu, October 10, 2010 (10/10/10). Both Corey and Jenny work for ExxonMobil in Baytown, TX.

Ravi Appalabhotla (’07) and Katherine Whitley, June 26, 2010. Ravi works at Novartis in Holly Springs.

Dan Chamblee (’07) and Ashton Saleeby (BIO ’08), August 23, 2008. Dan is an operations research analyst at Bank of America in Charlotte.

Ashley Forté (’07) and Nathan Miles, December 6, 2008. Ashley is a quality engineer at General Mills in Murfreesboro, TN.
Marriages (continued)

Alton Hare ('07) and Melanie Joseph (BIO '07), July 31, 2009. Alton is a law student at George Washington University.

Renee Nobles ('07) and Machon Gregory (CSC '04), April 11, 2009. Renee is a chemical engineer at ExxonMobil in Fairfax, VA.

Jason O’Neal ('07) and Courtney Agar, May 21, 2011. Jason earned a M.D. from the Wake Forest University School of Medicine in 2011 and is currently an anesthesiology resident at Beth Israel Deaconess Medical Center in Boston, MA.

John Rhoden ('07) and Julia Holliday, August 8, 2009. John is working on his PhD in chemical engineering at MIT.

Lauren Spencer ('07) and Smith Newnam (ID ‘08), October 4, 2008. Lauren is a shift supervisor at Corning in Wilmington.

Peter Stout ('07) and Blair Whitley (IAS ’05), September 27, 2008. Peter is a process engineer at Integrated Process Technologies in Cary.

Diana Bisbee ('07) and Kevin Brown ('08), September 19, 2009. Diana and Kevin both work at Biogen Idec in RTP.

Troy Gould ('07) and Sarah Trexler ('08), October 8, 2011. Troy and Sarah are both PhD students in Chemical Engineering at the University of Colorado-Boulder.

Mike Vergamini ('07) and Jessica Miller, May 30, 2009. Mike works for the North Carolina Department of Environmental and Natural Resources in Winston-Salem.

Laura Blackwell ('08) and David Mead (MAE ’08), August 15, 2009. Laura is a validation engineer at GSK in RTP.

Seth Carter ('08) and Sara Kilgore, June 18, 2011. Seth is an engineer at Procter & Gamble in Cincinnati, OH.

Rob Crews ('08) and Heather Ruby ('08), March 21, 2009. Both Rob and Heather work at Merck in Durham.

Abby Lithgo ('08) and Meade Willis (CE ’07), July 30, 2011. Abby is a process engineer at Procter & Gamble in Greensboro, NC.

Kendra Moreau ('08) and George Taylor, August 1, 2009. Kendra is a development engineer at Zeus Industrial Products in Orangeburg, SC.

Dmitri Moundous ('08) and Virginia Ball (PSY ’10), July 30, 2011. Dmitri is a process engineer at Progress Energy in Southport, NC.

Christie Reynolds ('08) and Chris Hagan, November 13, 2010. Christie is a nuclear plant health engineer at Progress Energy in Raleigh.

Elizabeth Vara ('08) and Brian Pierce, August 14, 2010. Elizabeth is an environmental engineer at Nucor in Hertford, NC.

Cindy Wang ('08) and Matt Hancy, April 17, 2010. Cindy is a consultant at Trinity Consultants in Raleigh.

Danielle Zimmerman ('08) and Jonathan Nelms, May 21, 2011. Danielle is a validation engineer at Hospira in Rocky Mount.

Tabatha Blaock ('09) and Chris Penny (CSC ’08), May 23, 2009. Tabatha is a patent examiner at the US Patent & Trademark Office in Alexandria, VA.

Kathryn Earley ('09) and Bryan Holland, October 2, 2010. Kathryn is a PhD candidate in the Department of Biochemistry at NC State.

Lindsey Jerrim (PhD ’09) and Joshua Stamm, October 25, 2008. Lindsey teaches engineering at the Gwinnett School of Mathematics, Science and Technology.

Ryan Kerns ('09) and Amanda Kilburn (BIO ’09), April 23, 2011. Ryan works for Procter & Gamble in Greensboro.

Matt Mahoney ('09) and Danielle Rade, November 6, 2011. Matt is a Coating Engineer at Pilkington Glass in Laurinburg.

Cori Rose ('09) and Luke Dary, June 2, 2010. Cory is in graduate school at the University of Florida. Cori is a research technician at Duke University Medical Center.

Kim Shearer ('09) and Lars Soltmann (MAE ’09), June 18, 2011. Kim is a scientific recruiter at Kelly Scientific Resources.

Andrew Wallace ('09) and Allie Rosenbaum, December 17, 2011. Andrew is a medical student at UNC-CH.

Christine Watson ('09) and David Link, May 16, 2009.

Ryan Abernathy ('10) and Elizabeth Dameron, August 20, 2011. Ryan is a production manager at CoaLogix in Charlotte.
Leigh-Ann Bender (‘10) and Harrison Dudley (ANS ’08), June 5, 2010. Leigh-Ann is attending graduate school in environmental engineering at NC State.

Steven Burgess (‘10) and Amanda Pervine, June 12, 2010. Steven is attending graduate school in chemical engineering at Georgia Tech.

Aaron Day (‘10) and Brittany Payne, September 24, 2011. Aaron is a process engineer at Procter & Gamble in Browns Summit, NC.

Christian Estes (‘10) and Sarah Stephens (ZO ’09), August 6, 2011. Christian is a process engineer with Veeco in Somerset, NJ.

Chris Hanson (‘10) and Jamie Solomon, April 16, 2011. Chris is employed by ExxonMobil in Baytown, TX.

Alex Hunt (‘10) and Danielle Baysden (BCH ’11), September 24, 2011. Alex is a process engineer at Potash Corporation (PCS Phosphate) in Aurora, NC.

Jordan Jernigan (‘10) and Nick Russell, May 29, 2010. Jordan works for ExxonMobil in Houston, TX.

Peter Jin (‘10) and Elizabeth Kirk (BME ’10), June 19, 2010. Peter is a graduate student in Forest Biomaterials at NC State.

Kris McCraw (‘10) and Amanda Kiefer, December 5, 2010. Alex is a graduate student in the NC State College of Textiles.

Andy Martin (‘10) and Courtney Jones (MED ’10), January 8, 2011. Andy is a process engineer at Packaging Corporation of America in Counce, TN.

Adam Melvin (PhD ’10) and Liz Lynch (MS ’08), June 6, 2009. Adam is a post-doctoral researcher in the Biomedical Engineering Department at UNC-CH, and Liz is completing her PhD degree under the direction of Professor Orlin Velev.

Autumn Place (‘10) and Bryce Bixler, May 22, 2011. Autumn is currently enrolled in PA school at Methodist University in Fayetteville.

Chelsea Bair (‘11) and Sean Kortovich (CE ’11), May 28, 2011. Chelsea is a technical support engineer at Merck in Durham.

Dasha Karelov (‘11) and Michael Kenlan, September 10, 2011. Dasha is a software engineer at the Prometheus Group in Raleigh.

Matt Hunsucker (‘11) and Rachel Morrison, June 5, 2011. Matt is attending medical school at UNC-Chapel Hill.

Births

Bob Looper (‘66) and his wife, Lorelei, announce the birth of twin grandsons, Ezra Adams Boland and Henry Atticus Boland, to their daughter, Cynthia, and her husband, Dan Boland, on May 11, 2011.

Mike Wood (‘73, MS ’75) and his wife, Joy, announce the birth of their first grandchild, Harper Ellis Wood, to their son, Eric Wood and his wife, Sunny, on January 17, 2010.

Russ O’Dell (‘75, PhD ’78) and his wife, Susie, announce the birth of their first grandchild, Emily Sarah Guy, to their daughter, Clara, and her husband, Jason Guy, on May 18, 2010.

Greg Hatem (‘85) and his wife, Samantha, announce the birth of a son, George Mitchell Hatem II on April 30, 2009, and a daughter, Salma Kate Hatem on December 27, 2010. Greg is managing partner of Empire Properties in Raleigh.

Emmett Crawford (‘93) and his wife, Amylyn, announce the birth of a daughter, Eloise Rose Crawford, on September 23, 2008. Emmett is a research associate at Eastman Chemical Company in Kingsport, TN and Amylyn is a physician at Rural Health Services.

Stephanie (Schwalm) Jacobs (‘93) and her husband, Larry, announce the birth of a son, Luke Andrew Jacobs, on June 8, 2011. Stephanie and Larry are both cardiologists with Cardiology Associates in Annapolis, MD.

Trent Carrier (‘94) and his wife, Melissa, announce the birth of a son, Alex Nathaniel Carrier, on October 27, 2010. Trent is the Executive Director of Business Strategy at Biologics Consulting Group in Alexandria, VA.

Ryan Kudva (‘94) and his wife, Denise, announce the birth of twins, Grace and Dylan Kudva, on December 20, 2007. Ryan is a supervisor for ExxonMobil in the Reservoir Properties Section.

Steve Humphrey (‘95) and his wife, Laura Beth, announce the birth of a son, Garrett Paul Humphrey, on June 1, 2010. Steve is a sixth grade social studies and reading teacher at Holston Middle School in Blountville, TN.

John Chambard (‘97) and his wife, Trisha, announce the birth of a daughter, Sydney Mae Chambard on July 28, 2009. John is a reliability specialist at ExxonMobil in Fairfax, VA.
Births (continued)

Tom Leach ('97) and his wife, Jennie, announce the births of two sons: Jake on December 17, 2007 and Luke on March 3, 2010. Tom is a Scientist at MedImmune in Gaithersburg, MD.

Julie (George) Pfund ('97) and her husband, Rob, announce the birth of a daughter, Sophie Grace Pfund, on July 16, 2008. Julie works for Community First Credit Union in Appleton, WI.

David Harmon ('98) and his wife, Kellye, announce the birth of a daughter, Morgan Lynn Harmon, on July 12, 2009. David is a manufacturing superintendent at Phosphate Corporation.

Steve Maygar ('98) and his wife, Jamie, announce the birth of twin girls, Brooke and Jenna, on February 18, 2010. Steve is a corporate real estate service advisor with CresaPartners in Cary.

Kathie (Moell) Sturgis ('98) and her husband, Jason, announce the birth of a son, Brett Daniel Sturgis, on August 31, 2009. Kathie works for ExxonMobil in Fairfax, VA.

Kevin Chamness ('99) and his wife, Sarah, announce the birth of a son, Collin Chamness, on March 6, 2009. Kevin is Director of Research at Adometry in Austin, TX.

Emily Martin ('99), and her husband, Kurt Ellis, announce the birth of a son, Chas Macdonald Ellis on December 20, 2010. Emily is the Executive Logistics Leader for GE Energy in Greenville, SC.

Michael Gerber ('01) and his wife, Adrea, announce the birth of a son, Benjamin Neil Gerber, on July 21, 2010. Michael works for Sun Chemical in Carlstadt, NJ.

Sharene Pierce ('01) and her husband, Tyrone, announce the birth of a daughter, Jada Pierce, on February 22, 2010. Sharene is a supervisor of meter engineering and support at Progress Energy in Raleigh.

Neal Grainger ('02) and his wife, Jessica, announce the birth of their second son, Logan Worth Grainger, on October 9, 2010. Neal was promoted to lead balance of plant system engineer at the Progress Energy Brunswick Nuclear Plant in Southport.

Bill Ketchie ('02) and his wife, Rebecca, announce the birth of a son, Christopher Daniel Ketchie, on May 18, 2010. Bill is a senior research chemical engineer at Eastman Chemical Company in Kingsport, TN.

Everett Minga ('02) and his wife, Maria, announce the birth of a daughter, Lusi Asantewaa Minga, on August 4, 2011. Everett is a petroleum surface production engineer for NATCO in Texas City, TX.

Josephine (Greenwood) Oldham ('02) and Chris Oldham ('02, PhD '09) announce the birth of a daughter, Eleanor “Nora” Ruby Oldham, on December 29, 2011. Josephine is President of SpecLine Consulting, Inc. and Chris is a post-doctoral research scholar in our department.

Mark Treece ('02, MS '03) and his wife, Ann (SZO '03) announce the birth of a daughter, Susanna Joy Treece, on January 13, 2010 and the birth of a son, Caleb Daniel Treece, on July 28, 2011. Mark is an advanced research engineer at Eastman Chemicals in Kingsport, TN.

Justin Bennett ('03) and his wife, Stephanie, announce the birth of a daughter, Amelia May Bennett, on November 28, 2008. Justin is a resident in Emergency Medicine at the University of Florida- Shands Hospital in Gainesville, FL.
Sharon Freeman (’03) announces the birth of a son, Jayden Marquise Edmond Branch, on August 3, 2010. Sharon is a chemical engineer at HCL CleanTech in Oxford.

Sarah (Guttu) Jones (’03) and her husband, R.D., announce the birth of a daughter, Ellison Gray Jones, on March 1, 2011. Sarah is a process design section supervisor with ExxonMobil in Baton Rouge, LA.

Ursula (Papp) Webb (’03) and her husband, Jason, announce the birth of a daughter, Addison Myrs Webb, on August 19, 2010. Ursula is currently working part-time as a process development engineer at Grifols Therapeutics in Clayton.

Karen (Rackley) Marsh (’03) and her husband, Richard, announce the birth of a son, Oliver Anthony Marsh, on March 30, 2011. Karen is an associate engineer with Environmental Resources Management (ERM) in Raleigh.

Andy Thomasson (’03) and his wife, Andrea, announce the birth of a daughter, Hillary Marie Thomasson, on July 17, 2011. Andy is a staff engineer at Merck in Durham.

Jonathan Wood (’03) and his wife, Susan, announce the birth of a son, Brayden Thomas Wood, on February 12, 2011. Jonathan is a project manager at PharmaE in Wilson.

Brooke (Williams) Anderson (’04) and her husband, Reeves, announce the birth of a son, Jesse Crawford (“Cord”) Anderson, on October 23, 2008. Brooke completed her PhD in Environmental Engineering from Yale in 2010.

Greg Brobst (’04) and his wife, Lindi Barton-Brost, announce the birth of a daughter, Caroline Barton Brobst, on May 20, 2009. Greg teaches chemistry at Susquehannock High School in Glen Rock, PA.

Josh Edmonds (’04) and his wife, Amy, announce the birth of a daughter, Madeline Grace Edmonds, on April 6, 2010 and a son, Joseph Alexander Edmonds, on November 6, 2011. Josh is a validation engineer at Merck in Durham.

Heather (Baker) Rose (’04) and her husband, Alby, announce the birth of a daughter, Mariah Diane Rose, on December 9, 2009. Heather is a process engineer at ExxonMobil in Baytown, TX.

Veronica (Brumbaugh) Safranski (’04) and her husband, Brad, announce the birth of a son, Arthur Joseph Safranski, on August 25, 2011.

Shelly (Heath) Helms (’05) and her husband, Matt Helms (ME ’05), announce the births of two sons: Grayson Blair Helms, on April 11, 2009 and Harrison Matthew Helms, on September 22, 2011. Shelly is an oil loss coordinator at ExxonMobil in Houston, TX.

Marc Mathews (’05) and his wife, Perri, announce the birth of a daughter, Sidney Grace Mathews, on April 1, 2009. Marc works for the US Army at the Natick Soldier Center on military protective clothing and equipment.

Andrew McAllister (’05) and his wife, Elizabeth, announce the birth of a son, Harrison James McAllister, on October 1, 2010. Andrew works at Procter & Gamble in Cincinnati, OH.

Randy Welch (’05) and his wife, Caryn (CHASS ’05), announce the birth of a daughter, Emily Starr Welch, on July 13, 2011. Randy is a process engineer at Ajinomoto AminoScience in Raleigh.

Robbie Williams (’05) and his wife, Jessica, announce the birth of a son, David Robert Williams, on June 15, 2011. Robbie is a process engineer at Hospira in Rocky Mount.
Births (continued)

Jessica (Willems) Creech ('06) and her husband, Aaron, announce the birth of a daughter, Harper Grace Creech, on July 9, 2011. Jessica received a pharmacy degree from UNC-CH in 2010 and is a pharmacist at CVS Pharmacy in Wake Forest.

Jennifer (Filipowski) Rasnake ('06) and her husband, Jason, announce the birth of a daughter, Skylar Marie Rasnake, born on July 17, 2011. Jennifer is a chemical engineer at Procter & Gamble in Greensboro.

Meredith (Fulp) Mackey ('06) and her husband, David, announce the birth of a son, Jackson David Mackey, on November 24, 2010. Meredith is working at DuPont in Parkersburg, WV.

Naiyl Rashid ('06) and his wife, Enas Atef Khader, announce the birth of a daughter, Aseel Rashid, on June 2, 2011. Naiyl is a chemical engineer at UOP in Des Plaines, IL.

Jeremy Schwartz ('06) and his wife, Limor, announce the birth of a daughter, Sivan Olivia Schwartz, on October 26, 2011. Jeremy is an Associate Developer at Atlantic BT, a website design, development and marketing firm in Raleigh, NC.

Madeha Baqai ('07) and her husband, Shahzad Shah, announce the birth of a daughter, Mariam Shahzad Shah, on November 21, 2009. Madeha works for ExxonMobil in Fairfax, VA.

Diana (Bisbee) Brown ('07) and Kevin Brown ('08) announce the birth of a daughter, Caitlynn Sophia Brown, on October 26, 2010. Both Diana and Kevin work at Biogen Idec in RTP.

Shalini Gupta ('07) and her husband, Ashish Bhatia, announce the birth of a daughter, Mira Bhatia, on June 9, 2011. Shalini is an assistant professor of Chemical Engineering at IIT-Delhi.

Tien Nguyen ('07) and his wife, Michelle, announce the birth of a son, Dylan Nguyen, on December 19, 2009. Tien is a process engineer at Savannah River Nuclear Solutions in Aiken, SC.

Christian Plautz ('07) and his wife, Mary, announce the birth of twins: a son, Max Plautz, and a daughter, Maggie Plautz, on March 20, 2011. Christian is an operations engineer at Biogen Idec in RTP.

Jeff Stowe ('07) and his wife, Kristen, announce the birth of a daughter, Ruby Eaton Stowe, on December 16, 2009. Jeff is a plant engineer at Novartis in Holly Springs.

Caryn Heldt (PhD '08) and her husband, Gary, announce the birth of a daughter, Lezley Eilene Heldt, on December 11, 2008 and a son, Jeptha Patrick Heldt, on September 27, 2011. Caryn is an assistant professor in Chemical Engineering at Michigan Tech in Houghton, MI.

Kevin Porch ('08) and his wife, Rebecca, announce the birth of a daughter, Addison Brynn Porch, on September 2, 2010. Kevin is a process engineer at Novartis in Holly Springs.

Kathryn (Earley) Holland ('09) and her husband, Bryan, announce the birth of a son, Easton Bryan Holland, on March 2, 2011. Kathryn is a PhD candidate in the Department of Biochemistry at NC State.

Justin Farmer ('09) and his wife, Stephanie, announce the birth of their daughter, Brynlee Linnette Farmer, on December 26, 2010. Justin is a chemical engineer at RTI in RTP.

Yun Long (MS '09) and his wife, Xiaozhen Liu, announce the birth of a son, Junlun Long, on January 3, 2011. Both Yun and Xiaozhen are working on their PhDs at NC State – Yun in CBE and Xiaozhen in CCEE.

Ben Donnalley ('10) and his wife, Lauren, announce the birth of their second son, Jackson Eli Donnalley, on November 14, 2011. Ben is employed at Ecolab in Raleigh.

Adam Melvin (PhD ’10) and Liz Melvin (MS ’08) announce the birth of a daughter, Abigail Margaret Melvin, on May 21, 2011. Adam is a post-doctoral researcher in the Biomedical Engineering Department at UNC-CH, and Liz is completing her PhD degree under the direction of Professor Orlin Velev.

Your Classmates Would Like to Hear From You

Please send your Alumni Notes to Russ O’Dell at russ_odell@ncsu.edu or Campus Box 7901, NC State University, Raleigh, NC 27695-7901.
Robert Bradley, Garrett Swindlehurst and Jake Vestal won poster awards at the 2008 National AIChE Student Conference in Philadelphia.

Jake Vestal received second place in the Session “A” Paper Competition at the 2009 Southern Regional AIChE Student Conference in Tuscaloosa. The title of his paper was “The Role of Cholesterol in Lung Surfactant for Design of a Synthetic Treatment for Acute Respiratory Distress Syndrome”.

Raleigh Davis, Jake Vestal and Garrett Swindlehurst received poster awards at the 18th Annual NC State University Undergraduate Research Symposium held in April 2009.

Stephen Morton was presented the Faculty Senior Scholarship Award for 2009-10 by Dr. Louis A. Martin-Vega at the September 2009 College of Engineering faculty meeting.

Courtney Fox won a poster award at the 2009 National AIChE Student Conference in Nashville.

Karen Achtyl and Megan Bittner were selected to be among the first women ever to serve on US submarines. They were informed on May 3, 2010 just 4 days after the Navy announced a policy change that allows women to serve on submarines, and just 12 days before they received their BS degrees.

Lara Jazmin was recognized as the 2010 Outstanding College Graduate of the Year by AATCC (the American Association of Textile Chemists and Colorists). Lara was a double major in Chemical Engineering and Polymer & Color Chemistry.

Lane Daley and Jordan Keith won Donald F. and Mildred Topp Othmer National Scholarship Awards: Lane was a 2010 recipient and Jordan was a 2011 recipient. The awards, presented on the basis of academic achievement and involvement in student chapter activities, provide $1,000 for student expenses.

Jamie Guthrie and Meghan McCann received Parenteral Drug Association (PDA) Student Awards: Jamie was the 2010 NC State recipient and Meghan was the recipient in 2011. The PDA provides scientific, technical and regulatory information on pharmaceutical and biopharmaceutical manufacturing and quality worldwide.

Matt Hudson and Eddie Osika were members of a team of NC State students who won the Taste of RMC Product Development Competition June 20-23, 2010 at the American Meat Science Association Reciprocal Meat Conference at Texas Tech University in Lubbock, Texas. The NC State entry, “The Q-tini,” featured layers of pulled pork barbecue and baked beans topped with creamy coleslaw served up in a martini glass.

Hannah Reese received an Astronaut Foundation Scholarship for 2011-2012, one of only 25 students selected. More than 80 astronauts have endowed the scholarships for students who exhibit motivation, imagination, and exceptional performance in science or engineering. Karen Uffalussy (‘03) previously was an Astronaut Scholar.

Jen Lewis, Evan Piephoff, Dayne Plemmons, Megan Smithmyer and Shu Zhu won poster awards at the 2011 National AIChE Student Conference in Minneapolis.

Karen Achtyl and Megan Bittner

Connect with us on LinkedIn:
Join our groups: NC State Chemical and Biomolecular Engineering and NCSU AIChE.
For more news and updates, visit www.che.ncsu.edu
Commencement

We have awarded the following ChE degrees over the past three academic years:

2008-09: 79 BS (48 with honors), 20 MS, 12 PhD
2009-10: 91 BS (57 with honors), 24 MS, 17 PhD
2010-11: 104 BS (54 with honors), 28 MS, 15 PhD

This brings the total number of ChE degrees awarded at NC State to 4,679 BS, 610 MS/MChE and 366 PhD as of May 14, 2011.

The alumni and student speakers at our recent department commencement ceremonies:

May 8, 2009: Carlos Gutierrez ('60) and Esmeralda Luna-Ramos ('09)
May 14, 2010: Quint Barefoot ('85) and Kendall Fitzgerald ('10)
May 13, 2011: Ana Davis ('91) and John Petitte ('11)

Golden Chain Honor Society

The Golden Chain Honor Society selects up to 12 of the most outstanding rising seniors each year from across the entire student body. The students are chosen on the basis of character, leadership, scholarship and service to the university. More chemical engineering students have been selected over the years than any other department, and four more were added in the past three years as follows:

2009: Kendall Fitzgerald
2010: Jennifer Gowen and Jamie Guthrie
2011: Sonja Jones

University Valedictorians

Our department continued its streak of having at least one university valedictorian (4.0 GPA) each year since 1992. No other department can match this feat. Congratulations to the following students on their outstanding accomplishment:

Spring 2009: William Barnes, Henryk Orlik, Peiwen Thor
Spring 2010: Elizabeth Butler, Raleigh Davis, Farshid Jafarpour, Lara Jazmin, Stephen Morton, Scott Peacock, Jeff Poley, Yashir Rashid, Jacob Thelen
Spring 2011: Dasha Karelav, Allie Landry, Jen Lewis, Douglas Mehlenbacher, Genevieve Pike
Summer 2011: Sindhu Sevala

CBE Outstanding Seniors

The following CBE Outstanding Seniors were nominated for College of Engineering Awards:

2008-09: Jonathon Harding (Scholarly Achievement), Robert Bradley & Garrett Swindlehurst (Leadership), Esmeralda Luna-Ramos (Citizenship & Service), Henryk Orlik (Humanities)
2009-10: Raleigh Davis (Scholarly Achievement), Kendall Fitzgerald (Leadership), Elizabeth Butler (Citizenship & Service), Lara Jazmin (Humanities)
2010-11: Sindhu Sevala (Scholarly Achievement), Lane Daley (Leadership), Jami Guthrie (Citizenship & Service), Gabrielle Cusimano (Humanities)
AIChE Student Chapter Officers

Our AIChE Student Chapter continues its tradition of strong leadership. Thanks to the following students for all their efforts: (shown as president, vice president of operations, vice president of finance, vice president of records, vice president of industry relations, respectively)

2009-10: Dominic Brown, Michaela Bennett, Michael Brown, Stephen Morton, Allie Landry and Justin McKenzie.

2010-11: Lane Daley, Jennie Leaf, Anirudh Kota/Isaac Kichak, Jordan Keith, Greg Riehle and Ian Njoroge.


A list of our AIChE Student Chapter officers going back to 1929 is posted on our history website at www.che.ncsu.edu/about/history/aicheofficers.pdf. Hopefully someone will be able to help us fill in the missing names of the treasurer and secretary for the 1970–71 academic year and the treasurer for the 1955–56 academic year.

AIChE Othmer Sophomore Academic Excellence Award

Congratulations to the most recent winners of the Donald F. Othmer Sophomore Academic Excellence Award: Allie Landry (2008-09), Jordan Keith (2009-10) and Brian Schuster (2010-11). This award is presented to the one AIChE student member in each student chapter who has attained the highest scholastic grade-point average during their freshman and sophomore years. Previous winners can be found on our website at http://www.che.ncsu.edu/history/AIChEAwards.pdf.

Most Active AIChE Member

The Most Active AIChE Member Award winners were:

2008-09: Andrew Boulton
2009-10: Courtney Fox
2010-11: Jodie Greene

Engineers’ Council

Jennifer Gowen served as vice president of the Engineers’ Council for the 2010–2011 academic year. Benton Riordan is serving as secretary of the Engineers’ Council for the 2011–2012 academic year.

Engineering Building I Walkway

A section of the brick walkway in front of EBI has been designated as the EBI Walkway. The header brick proclaims “EBI Walkway / Building a Pathway / To the Future.” We invite all of our alumni and friends to contribute $150 for an engraved brick. The proceeds from this campaign will be used to support our department. We hope that all of our ChE alumni will want to purchase a brick to express appreciation for the education they received. To date, a total of 117 personalized bricks have been ordered by our alumni and friends. Proofs of the bricks ordered so far can be found at www.che.ncsu.edu/giving/che_brick_proofs.pdf.

A brick order form is available online at www.che.ncsu.edu/giving/brick_order_form.pdf. Or we can fax or email the form to you if you send a request to Russ O’Dell at russ_odell@ncsu.edu or call the Engineering Foundation office at 1-866-316-4057. As you might well imagine, there are enough bricks in the walkway for all of our alumni.
We’d Like to Hear From You!

Please let us know if your contact information has changed: Send the following information to Russ O’Dell by email to russ_odell@ncsu.edu or by postal mail to Campus Box 7901, NC State University, Raleigh, NC 27695-7901.

Name _________________________________________ Degree and Class Year ________________

Home Street ___________________________________________________________________________

City ________________________________ State _____________ Zip ______________

Home E-Mail Address ________________________________________________________________

Home Phone ___________________________ Home Fax _________________________________

Cell Phone ___________________________________________________________________________

Company Name ______________________________________________________________________

Company Street ______________________________________________________________________

City ________________________________ State _____________ Zip ______________

Company E-Mail Address ______________________________________________________________

Company Phone ___________________________ Company Fax ______________________________

Chemical and Biomolecular Engineering Administrators

Department Head ............................................................. Peter Fedkiw

Associate Department Head ............................................ Jan Genzer

Associate Dean of Faculty Development ....................... Christine Grant

Director of Undergraduate Studies ............................... Lisa Bullard

Director of Graduate Program ..................................... Saad Khan

Director of Graduate Admissions ................................. Jason Haugh

Director of Biotechnology Program ........................... Bob Kelly

Director of Development ........................................... Russ O’Dell

Director of Golden LEAF Biomanufacturing Training and Education Center ................. Ruben Carbonell
Credits

Photography and Illustrations: Jimmy Allen, Lisa Bullard, Nate DeGraff, Marc Hall, Shirley Kow, Russ O’Dell, Ju-Hee So, NCSU Creative Services, and Self-Submitted.

North Carolina State University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on race, color, national origin, religion, sex, sexual orientation, age, or disability. NC State University commits itself to positive action to secure equal opportunity regardless of those characteristics.

4,600 copies of this document were printed at a cost of $4,260.