North Carolina State University
Chemical and Biomolecular Engineering

Class of 2018
Message From The Department Head

Dear alumni and friends of the department,

Your Department of Chemical and Biomolecular Engineering is doing well: Our students are receiving a first-class educational experience delivered by faculty who sincerely care about student success and professional growth; our newly minted graduates are actively sought by employers; undergraduate and graduate students are receiving national recognition from poster and oral presentation awards they receive at local, regional and national conferences; and faculty number and quality has grown since our last alumni newsletter. I highlight below several items: recognition of our graduates at our commencement ceremonies, recognition of alumni at our Distinguished Alumni celebration and recognition of our faculty through named professorships.

In my remarks at the departmental commencement ceremony, I begin by recognizing that our graduates are the product of our department. Faculty do what we do to serve that purpose. We celebrate alongside our students as they turn their tassel to signify earning the bachelor of science degree. Our faculty are proud of each and every graduate — they have worked hard to earn the right to call themselves NC State chemical engineers.

In 2016, your department established a Distinguished Alumni Awards program to recognize and celebrate exemplary contributions our alumni have made to their profession, community, and department, college or university. Each year, the department honors four alumni and one young alum. These award winners serve as role models and inspirations to our students. It is extremely rewarding to see what these graduates have accomplished over their careers. Their photos hang on the wall outside my office, and frequently I see our students stopping to read the citations accompanying these photos.

I am pleased to announce that seven of our professors have been appointed to professorships over the past three years: Michael Dickey - Alcoa Professor; Jan Genzer - S. Frank and Doris Culberson Distinguished Professor; Saad Khan - INVISTA Professor; David Ollis - University Distinguished Professor; Greg Parsons - Celanese Acetate Professor; Rich Spontak - Distinguished Professor; and Orlin Velev - a second S. Frank and Doris Culberson Distinguished Professor. These faculty, all members of the NC State Academy of Outstanding Teachers, are internationally known and respected for their scholarship and are well deserving of this honor and recognition.

Finally, I want to thank alumni and spouses who have made exceptionally generous donations and/or planned gifts to fund scholarships and professorships for the department: Tony and Linda Ambrosio, Billy Bardin and Linh D. Le, Robert Bradley, Bill Bulla, Ruben and Augie Carbonell, Nick and Becky Clausi, Tom and Karen Clausi, Elin Gabriel, Elizabeth Nance, Russ and Susie O’Dell, and Carl and Tessa Stutts. As funding from the state is reduced, funds from these donors will enable the department to continue to provide a world-class educational experience to our students.

Best regards,

Peter Fedkiw
Department Head
CBE Distinguished Alumni

The CBE Distinguished Alumni Award was established in 2016 to celebrate and recognize the exemplary contributions our outstanding graduates have made to their profession, their community, and their department, college or university. Just as important, the award winners will serve as an inspiration for current and future students. With more than 6,000 CBE alumni, we plan to induct four alumni each year for the foreseeable future, making this a noteworthy distinction.

Recipients are selected based on demonstrated exceptional professional, entrepreneurial and/or service achievements in their selected careers. Our alumni excel in many respects, so instead of rigid criteria, there are some general selection considerations. Not all of these need be met.

These considerations include:

- Professional Achievement
- Entrepreneurship
- Community and/or Public Service
- Service to the Engineering Profession
- Service to NC State and especially the CBE Department

Fifteen College of Engineering Distinguished Engineering Alumni were initially named as CBE Distinguished Alumni, and four new members were selected in 2016 and 2017.

Standing: Jeff Garwood, Frank Culberson, Alan Weinberg, Carlos Gutierrez, Joe Dyer
Seated: Norvin Clontz, Eric Paradise, Candis Claiborn, Mike Killian
COE DISTINGUISHED ENGINEERING ALUMNI

William E. Angelo 1942  Engineering Manager, Beecham Group
Norvin A. Clontz 1965  President, Milliken Chemicals
S. Frank Culberson 1960  President & CEO, Rimkus Consulting
Wayne T. Day 1965  President & CEO, John J. Kirlin Inc.
James K. Ferrell 1954  Chair, ChE NCSU, Associate Dean
Elin E. Gabriel 1985  VP of Global Operations, H.B. Fuller
Jeffrey R. Garwood 1984  President & CEO, GE Water & Process Technologies
William R. Garwood 1960  President, Tennessee Eastman
Carlos D. Gutierrez 1960  President, United Resource Recovery Corporation
Michael D. Killian 1968  VP & GM, Ashland Specialty Chemicals
Ross W. Lampe, Sr. 1951  President, Guy C. Lee Manufacturing
Arthur P. Moss 1932  VP of Production, Union Carbide
Donald R. Paul 1961  National Academy of Engineering; ChE Dept. Chair, University of Texas at Austin
Fred H. Ramseur, Jr. 1936  President, Cities Service Oil Company
F. Perry Wilson 1936  Chairman of the Board & CEO, Union Carbide

2016 DISTINGUISHED CBE ALUMNI

Candis S. Claiborn 1991  Dean, College of Engineering & Architecture, Washington State University
Joseph W. Dyer, Jr. 1969  Admiral, U.S. Navy; COO, iRobot Corporation
Carl S. Stutts, Jr. 1968  Chairman & CEO, Cyanco
Alan S. Weinberg 1963  Vice President of Global Technology, Sealed Air

2017 DISTINGUISHED CBE ALUMNI

Dominic T. Clausi 1994  Vice President, Global Chemicals Technology, ExxonMobil
Steffanie B. Easter 1985  Acting Assistant Secretary of the Army
Leland E. Garrett 1971  Cardiologist; Medical Director, Blue Cross Blue Shield
Kent O. Hudson 1975  CEO, Dude Solutions

Additionally, each year the department has selected a CBE Distinguished Young Alumni, someone who is within 15 years of graduating.

2016 DISTINGUISHED YOUNG CBE ALUMNI

Eric M. Paradise 2001  Senior Director, Partnering & Strategy Head for RIA

2017 DISTINGUISHED YOUNG CBE ALUMNI

Chisa K. Brookes 2002  Consultant, Sekoorb Consulting, LLC
Elin Gabriel Named COE Distinguished Engineering Alumna

Elin Gabriel (‘85) was selected by the College of Engineering as a 2015 Distinguished Engineering Alumna. She joins 14 other CBE alumni who have received this honor. The award was presented at the College’s Oct. 30, 2015 ceremony. Elin earned a B.S. degree in chemical engineering in 1985 and later earned an MBA from the College of William and Mary.

Following her graduation from NC State in 1985, Elin started as a manufacturing engineer at Advanced Micro Devices in Austin, Texas. In 1989, she moved back East to Honeywell International as a process engineer in the Chemical Intermediates Business, and she worked her way up to operations manager. She then took on operations management roles in Honeywell’s performance products and textile nylon businesses. In 1997 she was named plant manager of an engineered applications and solutions plant in Sparta, Tenn., and in 2001 was named plant manager of a performance fibers plant in Moncure.

Elin was named director of operations for performance products in 2003, which included responsibility for eight plants in the United States, Europe and Asia. She then took on a series of corporate leadership roles in several multinational companies: vice president of Global Supply Chain at Alpharma Pharmaceuticals (2004), executive vice president of U.S. and Western European operations for Actavis Group Pharmaceuticals (2006), senior vice president of European product supply for Teva Pharmaceuticals (2008) and chief operating officer for Alvogen (2010).

Elin was named vice president of global operations for H.B. Fuller in 2015. In this role she is an executive officer of the company, and she has direct responsibility for manufacturing plants in the U.S., Latin America, South America, Europe and Asia. H.B. Fuller is a $2.1 billion global corporation that focuses on adhesives, sealants and other similar specialty chemicals. The markets served by H.B. Fuller include packaging, hygiene, general assembly, electronic and assembly materials, paper converting, woodworking, construction, automotive and consumer businesses.
Ruben Carbonell has been selected to receive the O. Max Gardner Award, the most significant honor given to faculty by the 17-campus University of North Carolina System. The award is presented to the faculty member who has “made the greatest contribution to the welfare of the human race.” Ruben’s distinguished career at NC State includes significant contributions in research, entrepreneurism, administrative leadership and service to the university community and the general public. Ruben has more than 240 papers published in leading research journals and has been involved in the creation of three startup companies.

In March 2017, Ruben was a co-principal investigator in the proposal that led to the launch of the National Institute for Innovation in Manufacturing Biopharmaceuticals (NIIMBL). Made possible by a $70 million commitment from the National Institute of Standards and Technology over five years, NIIMBL is dedicated to accelerating innovation in biopharmaceutical manufacturing and developing a world-leading workforce to help drive the future of a vitally important industry to the U.S. economy and to patients suffering from chronic and deadly diseases throughout the world. Serving as chief technology officer for NIIMBL, Ruben drives the technology roadmap for NIIMBL and launches technical projects that address industry needs.

His main area of research is molecular recognition of biological molecules using ligands derived from combinatorial libraries, and their applications to separations, detection and pathogen removal. Ruben and colleagues published two landmark papers in the prestigious journals Transfusion and The Lancet, reporting for the very first time the removal of the infectious prion protein responsible for the transmission of mad cow disease in humans from whole blood. In addition, Ruben and his group created an innovative filter composed of nonwoven fabrics impregnated with resin particles containing a ligand that can be used to process human blood to remove prion proteins prior to transfusions into patients. This filter is now being manufactured by MacoPharma in Lille, France, and subject to successful completion of clinical safety trials, should be adopted by the United Kingdom.

In 2016, Ruben was elected a Fellow of the National Academy of Inventors in recognition of the breadth, range and quality of his patent portfolio, which includes nearly 40 U.S. patents and many more foreign counterparts. He is a member of the American Institute of Chemical Engineers and the American Chemical Society’s Industrial and Engineering Chemistry Division. He also received the 2007 Alexander Quarles Holladay Medal for Excellence, NC State’s highest faculty award.

As director of NC State’s Kenan Institute, Ruben established the Kenan Fellows Program for Teacher Leadership, an innovative program to nurture teacher-leaders through a yearlong mentorship with university faculty and industry partners aimed at developing novel curriculum tools to bring groundbreaking research to K-12 students. The National Science Foundation has recognized this as an excellent model for university outreach to schools, and several groups in other states are developing similar programs.
New Faculty Members

Milad Abolhasani joined our department in August 2016 as an assistant professor. Milad is a native of Iran, where he earned a B.S. degree in mechanical engineering at Sharif University of Technology in 2008. He did his graduate work in Canada, also in mechanical engineering, receiving a Master of Applied Science from the University of British Columbia in 2010 and a Ph.D. from the University of Toronto in 2014. Milad had a Natural Sciences and Energy Research Council postdoctoral fellowship under Dr. Klavs F. Jensen in the Department of Chemical Engineering at MIT.

His research interests include flow chemistry and microfluidics. His research group is focused on the development of microscale flow chemistry technologies tailored for (a) on-demand synthesis and characterization of colloidal quantum dots; (b) continuous green manufacturing of pharmaceutical compounds; and (c) rapid screening and process optimization of homogeneous catalytic reactions.

Milad’s wife, Dr. Shiva Hamidian Jahromi, is a senior scientist at Bioagilytix in RTP. His hobbies include playing volleyball and tennis and watching TV shows (The Walking Dead and Game of Thrones).

Nathan Crook joined our department in January 2018 as an assistant professor. Nathan earned a B.S. in chemical engineering at the California Institute of Technology in 2009 and a Ph.D. in chemical engineering from the University of Texas at Austin in 2014. His graduate work was supported in part with a Graduate Research Fellowship from the National Science Foundation. Nathan had a postdoctoral fellowship under Dr. Gautam Dantas in the School of Medicine at Washington University in Saint Louis.

Nathan is married to Jie Sun, who has a Ph.D. in biochemical engineering from East China University of Science and Technology. Jie is a visual arts specialist in Engineering Communications at NC State. Nathan and Jie’s daughter, Emily, was born on June 6, 2018. His hobbies include gardening, badminton and traveling with his family.

Lilian Hsiao joined our department in July 2016 as an assistant professor. Lilian was born in Hong Kong and lived in Singapore through her middle and high school years. She came to the United States in 2003 to study chemical engineering at the University of Wisconsin-Madison. After earning her B.S. degree in 2008, she was accepted into the chemical engineering graduate program at the University of Michigan and earned her Ph.D. in 2014 under the supervision of Dr. Michael Solomon. Lilian then conducted her postdoctoral work with Dr. Patrick Doyle in the Department of Chemical Engineering at MIT.

Her research focuses on soft materials and complex fluids — specifically on the use of shaped colloids, hydrogels and functionalized elastomers. Her group specializes in fundamental studies that incorporate microscopy and rheology to identify physical and chemical frameworks used to engineer the mechanical properties of soft materials.

Lilian’s hobbies include tennis, working out, traveling and unusual culinary projects. One of her current projects is the curing of charcuterie as eaten in different parts of the world, which is related to the classical chemical engineering problem of unsteady mass transfer.

Albert Keung joined our department as an assistant professor in January 2016.
Albert grew up in Wayland, MA. and studied chemical engineering at Stanford University, earning a B.S. degree in 2006. He received his Ph.D. in chemical engineering from the University of California at Berkeley in 2012 as a National Defense Science and Engineering Graduate and National Science Foundation Fellow. Albert was then an National Institutes of Health postdoctoral fellow in biomedical engineering under Dr. James Collins at MIT and Dr. Ahmad Khalil at Boston University.

His research focuses on synthetic biology, neural and stem cell engineering and bioengineering. His lab investigates molecular technologies to expand and unlock new ways to control, understand and harness chromatin. These technologies will enable researchers and engineers to manipulate features of chromatin, such as its biochemistry and three-dimensional structure, in highly defined and specific ways. These technologies can be used to reveal the mechanisms of developmental transitions and diseases. In addition, they can be exploited to create synthetic “biological circuits” useful in applications such as antibody production and cancer-killing cells.

Albert’s hobbies include music, tennis and ice cream.

Stefano Menegatti (Ph.D. ’13) joined our department in August 2015 as an assistant professor. Stefano is a native of Italy, where he earned B.S. and M.S. degrees in chemical engineering at the Università di Bologna in 2006 and 2008, respectively. In 2009, Stefano entered the chemical engineering graduate program at NC State, as a student in the group of Ruben Carbonell, earning a Ph.D. in 2013. He then joined the group of Dr. Mitragotri at the University of California at Santa Barbara, where he spent two years as a postdoctoral fellow. In 2017, he was awarded the NSF CAREER Award.

His research focuses on stimuli-responsive peptide ligands for purification of stem cells and labile therapeutic proteins, hydrogel systems for scheduled delivery of synergistic combinations of anticancer therapeutics, smart textiles with controlled permeability for drug delivery and water/vapor treatment, peptide mimetics to study the phase behavior of sequence-controlled polymers, and organometallic catalysis.

Stefano was born and grew up in rural Italy, so farming is still what he does in his spare time. If an extra hour is available, he either plays the harpsichord or studies medieval philosophy and theology. (doctorsubtilis.blogspot.com).

Adriana San Miguel Delgadillo joined our department in January 2016 as an assistant professor. Adriana is a native of México where she earned a B.S. in chemical engineering from Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in 2005. Prior to starting graduate school, she worked in the cement and water-treatment industries. She earned a Ph.D. in chemical engineering from the Georgia Institute of Technology in 2011, under the supervision of Dr. Sven Behrens. She then worked as a postdoctoral fellow with Dr. Hang Lu at the Georgia Institute of Technology. She also worked as a postdoctoral researcher with Dr. Marc Vidal at Dana-Farber Cancer Institute.

Her research focuses on systems biology, microfluidics, quantitative biology, and high-throughput experimental platforms. Her students use the nematode C. elegans as a model organism and are working on topics such as neuronal aging, synaptic plasticity, noise and stochasticity, genetic networks and buffering, among others. They incorporate tools that enable large-scale, high-content quantitative characterization of phenotypes at various scales: from the subcellular level all the way to whole-organism behavioral outputs.

Adriana’s husband, Fernando Garcia Menendez, is an assistant professor in NC State’s Department of Civil, Construction, and Environmental Engineering. Her hobbies include running, live music and watching baseball.

Qingshan Wei joined our department in January 2017 as an assistant professor. Qingshan is a native
New Faculty Members (continued)

of China where he earned B.S. and M.S. degrees in polymer materials and engineering from Zhejiang University in 2005 and 2007, respectively. He earned a Ph.D. in chemistry from Purdue University in 2012, followed by a postdoc in bioengineering and electrical engineering at the University of California at Los Angeles in 2016.

Qingshan’s research focuses on developing low-cost and miniature technologies to improve diagnostics of human and plant diseases in the point-of-care (POC) settings. His group seeks fundamentally new imaging and sensing architectures, molecular assay methods and nanotechnologies that can compensate for the lack of detection infrastructure to address the immediate needs for global health, telemedicine and precision agriculture.

Qingshan is married to Dr. Hangfei Qi, who is an investigator at GSK in RTP. His hobbies include traveling and photography.

Faculty Notes

Chase Beisel was promoted to associate professor with tenure effective August 16, 2017. He resigned on December 31, 2017 to accept a position as a leader of the RNA Synthetic Biology research group at the Helmholtz Institute for RNA-based infection research in Würzburg, Germany.

Chase Beisel was selected as a member of the 2015-16 University Faculty Scholars cohort. The University Faculty Scholars Program was established in 2012 by Chancellor Woodson to recognize and reward emerging academic leaders among NC State faculty. Each year, approximately 20 tenured or tenure-track faculty scholars receive this honor.

Ruben Carbonell was named a Fellow of the National Academy of Inventors in 2016. He is one of three NC State faculty members to have received this honor.

Ruben Carbonell was selected to receive the 2018 O. Max Gardner Award. The O. Max Gardner Award is made annually to a faculty member of the University of North Carolina System who, in the opinion of the Board of Governors Committee, “has made the greatest contribution to the welfare of the human race.”

Matt Cooper was selected to receive the 2016 ASEE Chemical Engineering Division’s Ray W. Fahien Award. The award is given annually to an educator who has shown evidence of vision and contribution to chemical engineering education. Nominees are evaluated based upon two equally weighted criteria: 1) outstanding teaching effectiveness and 2) educational scholarship.

Matt Cooper received the Joseph J. Martin Award from the Chemical Engineering Division for the best paper at the 2016 American Society for Engineering Education Annual Meeting. It is particularly noteworthy that this is the second time Matt has received the Martin Award.

Matt Cooper was promoted to teaching associate professor effective August 16, 2017.

Matt Cooper was elected chair of ASEE’s Chemical Engineering Division. This position has a three-year commitment to leadership in the division and its executive board.

Joe DeSimone was recognized by the White House with the National Medal of Technology and Innovation in 2015. The National Medal of Technology and Innovation was created by statute in 1980 and is administered for the White House by the U.S. Department of Commerce’s Patent and Trademark Office. This is our nation’s highest honor for achievement and leadership in advancing the fields of science and technology.

Joe DeSimone received the inaugural Kabiller Prize in Nanoscience and Nanomedicine from Northwestern University’s International Institute for Nanotechnology in 2015.

Joe DeSimone was selected to receive the 22nd Heinz Award in the category of
Technology, the Economy and Employment in 2017. The Heinz Awards program recognizes remarkable contributions in five areas of great importance to Senator John Heinz: arts and humanities; environment; human condition; public policy; and technology, the economy and employment.

Michael Dickey was selected to receive the ASEE 2016 Curtis W. McGraw Research Award. This award was established in 1957 to recognize outstanding early achievements by young engineering college research workers. This annual award is sponsored by the ASEE Engineering Research Council with the assistance of the McGraw-Hill Book Company.

Michael Dickey was selected to receive the 2017 Alcoa Foundation Distinguished Engineering Research Award from the College of Engineering. This highly competitive award is based on a record of outstanding research achievements over a period of at least five years.

Michael Dickey was appointed as Alcoa Professor of Chemical Engineering in 2018.

Rich Felder and his wife, Rebecca Brent, have authored a book, *Teaching and Learning STEM: A Practical Guide* (Jossey-Bass, 2016). It presents a “trove of practical research-based strategies for designing and teaching courses and assessing students’ learning.” Rich invites you to “check it out, or not.”

Michael Flickinger retired from the department in 2018.

Jan Genzer was selected as an Alumni Distinguished Undergraduate Professor in the 2015-16 cohort. The award recognizes his long-term, distinguished service in undergraduate teaching at NC State.

Jan Genzer was appointed as the S. Frank and Doris Culberson Distinguished Professor of Chemical Engineering in 2016.

Christine Grant received the 2015 AAAS Mentor Award. The award recognizes “an individual who has mentored and guided significant numbers of students from underrepresented groups to the completion of doctoral studies or who has impacted the climate of a department, college or institution to significantly increase the diversity of students pursuing and completing doctoral studies.”

Christine Grant received the inaugural Pioneers of Diversity Award from the AIChE Minority Affairs Committee in 2015. The award is in recognition of Christine’s “role as former MAC Chair, distinguished service to AIChE and for guidance in helping create a more inclusive institute and profession.”

Keith Gubbins was selected by the NC State Chapter of Sigma Xi as the 2016 recipient of the Sigma Xi Distinguished Leadership and Contributions to Scientific Research Award. The award recognizes his outstanding leadership and exceptional research contributions to the field of molecular science and engineering.

Carol Hall received the 2015 Founders Award for Outstanding Contributions to the Field of Chemical Engineering from the AIChE. “The award is presented to a member of AIChE who has had an important impact on chemical engineering and whose achievements, either specific or general, have advanced this profession in any of its aspects. The recipient should have a long and distinguished record of service to the profession, including both technical and professional activities.”

Jason Haugh was selected to receive the College of Engineering’s 2018 Alcoa Foundation Distinguished Engineering Research Award. The Alcoa Award is among the most prestigious awards provided by the College to recognize research achievements.

Bob Kelly received the 2018 DuPont Biosciences Award in Applied and Environmental Microbiology from the American Society for Microbiology.

Saad Khan was appointed the INVISTA Professor of Chemical and Biomolecular Engineering effective August 1, 2018.

Albert Keung received the 2017 Avenir Award for Genetics or Epigenetics of Substance Use Disorders from the National Institute on Drug Abuse, which is an agency within the National Institutes of Health. The award was established to support individuals “who have the potential to make extraordinary contributions to medical research.”
Fanxing Li received the 2015 SABIC Young Professional Award, given by the AIChE Particle Technology Forum. The award recognizes an individual for outstanding and internationally recognized contributions in particle technology within seven years of obtaining their last degree.

Fanxing Li was selected as a member of the 2015-16 University Faculty Scholars cohort. The University Faculty Scholars Program was established in 2012 by Chancellor Woodson to recognize and reward emerging academic leaders among NC State faculty. Each year, approximately 20 tenured or tenure-track faculty scholars receive this honor.

Fanxing Li was selected as an ASEE Early Riser, for professors under 40 years of age. He was one of 20 high-achieving researchers and educators who were announced in the summer 2018 issue of PRISM.

Stefano Menegatti received a 2017 CAREER Award for his proposal “CAREER: Light- and temperature-controlled peptide ligands for purifying blood factors and orphan enzyme drugs.” The National Science Foundation views a CAREER award among its “most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization.”

David Ollis was appointed a Distinguished University Professor in 2016.

Greg Parsons received the 2017 Alumni Distinguished Graduate Professorship Award. The award recognizes outstanding graduate teaching and mentoring.

Greg Parsons was selected as an inaugural member of the NC State University Research Leadership Academy in 2016. In addition to being selected for the RLA, Greg received the Alumni Association Outstanding Research Award, awarded to all RLA members.

Greg Parsons was appointed the Celanese Acetate Professor of Chemical Engineering in 2018.

Steve Peretti accepted a temporary appointment as program director of Biotechnology and Biochemical Engineering at NSF from 2017-19. It is a three-year commitment, which allows for frequent visits back to the department to monitor research in his lab.

Bala Rao was selected for the 2016-17 class of University Faculty Scholars. The recipients represent top early- and mid-career faculty members who are pursuing research to solve society’s most pressing problems. University Faculty Scholars carry their title for a five-year period and receive a $10,000 annual award for supplemental salary and benefits, or for programmatic support.

Rich Spontak was appointed as a Distinguished Professor of Chemical Engineering in 2016.

Rich Spontak won the NC State 2018 Outstanding Global Engagement Award.

Rich Spontak was elected a Fellow of The NANOSMAT Society (TNS) in the U.K. The Society is designed “to provide an effective and stimulating platform for international people to foster, develop and promote communication, education, networking, dissemination of knowledge, research and innovations in all aspects of nanoscience and nanotechnology.”

Orlin Velev was appointed the S. Frank and Doris Culberson Distinguished Professor of Chemical and Biomolecular Engineering effective August 1, 2018.

Orlin Velev was selected as a 2017 Fellow of the Materials Research Society. Candidates are selected “whose sustained and distinguished contributions to the advancement of materials research are internationally recognized.”

Orlin Velev received the 2017 Andreas Acrivos Award for Professional Progress in Chemical Engineering “for pioneering contributions in directed assembly of colloidal particles into sophisticated materials and devices, and development of novel functional structures from soft matter.” The award recognizes an individual’s outstanding accomplishments in fundamental or applied chemical engineering research.
Orlin Velev received the 2017 R.J. Reynolds Award for Excellence in Teaching, Research and Extension, which is the highest-level award the College provides.

Orlin Velev received a 2018 Langmuir Lecturer Award from the Division of Colloid and Surface Chemistry of the American Chemical Society.

Qingshan Wei is one of the inaugural winners of a Young Innovator Award in NanoBiotech from the journal Nano Research in 2018. The award is given to 45 outstanding young investigators under 45 in recognition of their distinguished accomplishments and/or potential to make substantial contribution to their fields.

Phil Westmoreland received the 2017 AIChE Institute Award for Excellence in Industrial Gases Technology “for quantitative and mechanistic insights into gas pyrolysis, combustion and industrial chemistry through measurement and modeling, especially of hydrofluorocarbons and aromatic pollutants.” The award is sponsored by Praxair, Inc., and it recognizes an individual’s sustained excellence in contributing to the advancement of technology in the production, distribution and application of industrial gases.

Phil Westmoreland was named a Leverhulme Trust Visiting Professor at Imperial College of Science and Technology in London during his 2015-16 sabbatical stay. This highly competitive award is made to U.K. institutions that wish to invite an eminent researcher from overseas to enhance the knowledge and skills of academic staff or the student body within the host institution. The overriding criteria for selection are first the academic standing and achievements of the visitor in terms of research and teaching, and secondly the ability of the receiving institution to benefit from the imported skills and expertise.

Phil Westmoreland was elected as a Fellow of the Combustion Institute in 2018. Fellows are institute members recognized by their peers as distinguished for their contributions to combustion research and technologies.

Staff Notes

Kathlene Berding retired from the department on March 30, 2018.

Christiana Boyle joined the department on August 17, 2015 as our university business officer. Christiana has 23 years of experience at NC State and joined CBE from the Department of Entomology.

Michelle Bunce joined the department on May 25, 2016 as an administrative support associate.

Paola Cavaliere joined the department on April 23, 2018 as a bookkeeper.

Dr. Kimberly Dickey joined the department in July 2015 as an instructor.

Saundra Doby retired from the department on August 31, 2017.

Jolie Kajioka joined the department on September 25, 2017 as an accounting technician. She was promoted to contracts and grants manager on March 30, 2018.

Mike Mantini was promoted to specialty trades technician on July 1, 2016.

María Moreno joined the department on May 9, 2016 as a university program associate.

Joan O’Sullivan received a College of Engineering Award for Excellence on June 8, 2017 for customer service.

Kit Yeung retired from the department on April 29, 2016.
Major Gifts / New Endowments

Tony Ambrosio (’70) and his wife, Linda, have made three planned gifts totaling $1,564,000 to create the Anthony and Linda Ambrosio Scholarship Endowment for undergraduate students enrolled in the CBE department. Tony started his career as a research engineer for Texaco in Port Arthur, Texas, and later moved into project engineering management positions, first with Stone & Webster, and later with Fluor Corporation.

Billy B. Bardin (’95) and his wife, Linh D. Le, created the Billy B. Bardin and Linh D. Le Scholarship Endowment for undergraduate students with financial need enrolled in the CBE department. Billy earned M.S. and Ph.D. degrees in chemical engineering at the University of Virginia in 1997 and 2000, respectively. He is the global operations technology director at Dow. Linh D. Le earned a B.S. in chemistry at Temple University and a Ph.D. in physical chemistry at Penn State University. She is the senior manager and technical leader for the analytical science R&D organization at Dow.

Robert Bradley IV (’09) created the Robert O. Bradley IV Scholarship Endowment for undergraduate students enrolled in the CBE department. Robert was hired by ExxonMobil as a reservoir engineer in Houston, Texas. He then took a position with XTO Energy in Fort Worth, Texas when they were acquired by ExxonMobil. Robert is now back with ExxonMobil in Houston. Robert also initiated the Lisa G. Bullard Undergraduate Enhancement Fund in 2010 and is a major contributor.

William D. (Bill) Bulla, Jr. (’60) was honored by his family, who established the William D. Bulla Jr. Scholarship Endowment. The endowment was funded in 2016 with a realized bequest of $50,000. Bill started his career with Phillips Petroleum in Bagly, Texas, but came back to Raleigh to work in research and development for Electric Storage Battery Company, which later was acquired by Exide. Later in his career, Bill went to work for Almay Cosmetics in Apex, where he worked in both production and research and development.

Ruben G. Carbonell, Frank Hawkins Kenan Distinguished Professor of Chemical and Biomolecular Engineering, and his wife, Augie, have created the Ruben and Augie Carbonell Scholarship Endowment for undergraduate students enrolled in the CBE department. Additionally, they have made a planned gift to create the Ruben and Augie Carbonell Distinguished Professorship in Chemical Engineering. Together with a 50 percent state match, this will create a $1 million endowment.

Nick Clausi (’94) and his father, Tom Clausi (’64) created the Clausi Family Scholarship Endowment for undergraduate students enrolled in the CBE department. Nick earned a Ph.D. in chemical engineering from University of Texas at Austin in 1998 and started his career with ExxonMobil Chemical Company in Baton Rouge, La.
Today he is a senior vice president of polymers at ExxonMobil Chemical Company in Houston, Texas. Tom started his career with Pittsburgh Plate & Glass in New Martinsville, W.Va. but spent most of his career with Novartis. He is retired and lives in Prairieville, La.

Elin Gabriel ('85) added $118,000 to her Elin Gabriel Scholarship Endowment, which will allow it to fund a third half-tuition scholarship in the CBE department. This scholarship is awarded to students who have a demonstrated financial need. Elin started her career as a manufacturing engineer with Advanced Micro Devices and moved into management at a series of companies: plant manager and director of operations for Honeywell, vice president of global supply chain at Alpharma Pharmaceuticals, executive vice president of U.S. and Western European operations for Actavis Group Pharmaceuticals, senior vice president of European product supply at Teva Pharmaceuticals, chief operating officer for Alvogen and most recently vice president of global operations for H.B. Fuller.

Russ O’Dell ('75) and his wife, Susie, have made a planned gift to create the Russ and Susie O’Dell Distinguished Professorship in Chemical Engineering. Russ worked for Hoechst Celanese, Hoechst North American and KoSa, becoming the global manager of technology for the polyester division. He took early retirement to work with the NC State Engineering Foundation and CBE as director of alumni relations. Together with a 50 percent state match, this planned gift will create a $1 million endowment.

Elizabeth Nance ('06) has created the Edna Loretta Nussman Scholarship for undergraduate students enrolled in the CBE department. The annually funded scholarship program was named in honor of Elizabeth’s grandmother who served as an inspiration. Elizabeth is the Clare Boothe Luce Assistant Professor of Chemical Engineering at the University of Washington. She earned a Ph.D. in chemical engineering at Johns Hopkins and then served as a postdoctoral fellow in anesthesiology and critical care medicine at Johns Hopkins.

Carl Stutts ('68) and his wife, Tessa, added $100,000 to the Stutts Scholarship Program in Chemical Engineering. Each year, three $6,000 Stutts Scholarships will be awarded to undergraduate students in CBE. Additionally, they made a planned gift of $1 million for scholarships, half for CBE and half for the College. Carl is the chairman of Cyanco, the leading global supplier of sodium cyanide, a critical chemical used in the extraction of gold and silver.
**CHEMICAL AND BIOMOLECULAR ENGINEERING**

**CBE Scholarships, Fellowships, Professorships and Programmatic Funds**

**SCHOLARSHIPS**
- Ernie and Beverly Alexander
- Anthony and Linda Ambrosio
- Ernest J. and Ethel H. Angelo Memorial (Bill Angelo)
- Anonymous
- Billy B. Bardin and Linh D. Le
- Robert M. Barefoot (Quint Barefoot)
- John K. Beasley
- Robert O. Bradley, IV
- Chisa Brookes
- William D. Bulla, Jr.
- Ruben and Augie Carbonell
- C. Dennis Carroll
- Michael B. Christie
- Class of 1966
- Clausi Family (Nick and Tom Clausi)
- John E. and Ana Piqueras Davis
- Van Delk
- William C. (Bill) Drake Family Caldwell
- William R. Edwards
- Theresa Mooney Freeman
- Elin Gabriel
- Garwood Family (Jeff and Bill Garwood)
- William Jackson Goodrum
- Carlos D. and Barbara Hoyle Gutierrez
- Theodore A. and Peggy B. Hardaway
- Herbert and Leila Hooper
- Randy D. Jester
- James M. and Laura B. Johnson
- Richard M. Jones
- Robin Barker Jones Memorial
- Rolf Kaufman
- Jerry G. Lewis
- Donald C. Martin
- Sidney F. Mauney Jr. Memorial
- Alan M. and Nancy D. McGee
- Forest O. Jr. and Sandra Mixon / BS&T Friends
- Forest O. Jr. and Sandra Mixon / RTI
- E. J. and Ruth Mogilnicki Deferred Gift Annuity
- Zach Nicholson
- Edna Loretta Nussman (Elizabeth Nance)
- Russ O’Dell
- Paving the Pathway Scholarship (Brick Walkway)
- Johnnie L. Pearson
- Richard and Mary Phillips Family Leadership Incentive
- Verna Strickland Ramsey (Ron Brown)
- George W. Roberts Memorial Scholarship

**FELLOWSHIP AWARDS**
- James K. Ferrell
- Edward M. Schoenborn
- Vivian T. Stannett

**PROFESSORSHIPS**
- Alcoa
- Ruben and Augie Carbonell
- Celanese Acetate Chemical Engineering
- Worley H. Clark Distinguished
- S. Frank and Doris Culberson (2)
- Camille and Henry Dreyfus Foundation
- INVISTA Professorship in Chemical Engineering
- Frank Hawkins Kenan Professorship
- William R. Kenan Jr. Chemical Engineering Research
- Russ and Susie O’Dell
- Alan and Ellen Weinberg
- James D. Yopp, Jr.

**OTHER FUNDS**
- Lisa G. Bullard Undergraduate Enhancement Fund
- Celanese Acetate Enhancement Fund
- Norvin A. Clontz / Milliken Grad Student Recruiting
- S. Frank and Doris Culberson Academic Enhancement Fund
- Wayne T. Day Family Graduate Student Fund
- James E. and Lois C. Deas Enhancement Fund
- Keith E. Gubbins Lecture Series
- Richard M. and Judith A. Minday Young Faculty Support Fund
- E.E. Randolph Memorial Fund (BE Lauer)
- George W. Roberts Memorial Fund (AIChE)
- A.W. and Katie Stafford Enhancement Fund
CBE Alumni Advisory Board

The CBE Alumni Advisory Board meets annually to help promote our department. Our current board members are: Billy Bardin (’95), Nick Clausi (’94), Ana Davis (’91), John Davis (’91), Danny Henderson (’79), Mark Hurley (’81), Thad Leister (’87), Yang Luo (Ph.D. ’94), Ellis McGaughy (’82), Nate Miranda (Ph.D. ’94), Tim Nolen (Ph.D. ’89), Russ O’Dell (’75, Ph.D. ’78), Ann Quillian (’85), Joe Royer (Ph.D. ’00), Billy Willis (’76, Ph.D. ’81) and Ron Zumstein (Ph.D. ’87).

Class Ring Missing For 42 Years

Moultrie Watts (’52) lost his class ring on Hatteras Island in 1974, where it stayed buried in the sand for 42 years until unearthed in 2016 by a treasure hunter with a metal detector. The ring was taken to Treasure Isle Jewelers in Cary by the woman who found it outside the cabin where she was staying. It was so caked in sand that it took 45 minutes before the jeweler, Steve Prutsman, could see that it was engraved on the inside: “Moultrie B. Watts, Raleigh.”

Steve Prutsman went online and found an obituary for Moultrie Watts which indicated that he had died in 2006, some ten years before his ring was found. However, the obituary listed his family, and the jeweler was able to reach his daughter, Deborah Watts Burdette. When he told her that he had something that might have belonged to her father, Deborah immediately replied that it must be his NC State class ring. The ring was lost on a family vacation when she was 14 or 15, and it stuck in her mind.

After 42 years buried in the sand of Hatteras Island, Moultrie Watts’ NC State class ring made its way back to his family. The jeweler, Steve Prutsman, would not accept any money from Deborah Burdette, indicating that the look on her face was payment enough.

The obituary tells us a little about Moultrie: he was a captain in the Strategic Air Command of the U.S. Air Force; he became a real estate appraiser and taught courses nationwide; and he was very active with the Town of Cary, serving on the board of adjustments and the planning and zoning board.
Alumni Highlights

Cameron Abrams (’95) was named department head of Chemical and Biological Engineering (CBE) at Drexel University in January 2017, becoming the seventh head of the department. Cameron earned a Ph.D. in chemical engineering from the University of California at Berkeley in 2000 and did two years of postdoctoral work at the Max-Planck-Institute for Polymer Research in Mainz, Germany. He then joined the CBE department at Drexel as an assistant professor in 2000 and was promoted to full professor in 2012. Cameron is the recipient of an NSF CAREER Award, an ONR Young Investigator Award, is a Fellow of the American Institute of Medical and Biological Engineering, and is the 2015 Impact Awardee in Computational Molecular Sciences and Engineering from the American Institute of Chemical Engineers. He has authored or co-authored approximately 90 original articles and has graduated eight Ph.D. students to date.

Billy Bardin (’95) was elected to the AIChE Board of Directors for 2017-19. Billy is the global operations technology director at Dow Chemical in Freeport, Texas. Billy received M.S. and Ph.D. degrees in chemical engineering at the University of Virginia in 1997 and 2000, respectively. He started his career as a senior research engineer with Union Carbide / the Dow Chemical Company in South Charleston, W.Va. While with Dow, he worked in Midland, Mich.; Horgen, Switzerland; and Terneuzen, Netherlands. In 2007, Billy was named leader for the North American Hydrocarbon Production Support Group in Freeport, Texas, and became R&D director for basic chemicals and technology licensing in 2008. He was subsequently named R&D director for the feedstocks, chemicals, energy and hydrocarbons businesses.

Lane Daley (’11) and Jeff Millman (’05) were selected for the inaugural AIChE 35 under 35 Award which recognizes 35 outstanding young professional AIChE members who have made significant contributions to the institute and to the chemical engineering profession. The winners exemplify the best our profession has to offer and represent the full breadth of early chemical engineering career paths. Each award winner was selected for their achievements in one of seven categories: bioengineering, chemicals, education, energy, innovation, leadership and safety.

After receiving a B.S. in chemical engineering from NC State in 2011, Lane started her career as a chemical engineer at Eastman Chemical Company in Kingsport, Tenn. She was promoted to project manager in 2015, leading new products to commercialization. In 2017, Lane took a project engineering position at Clif Bar & Company in Twin Falls, Idaho. She is responsible for engineering projects at the bakery in Twin Falls.

After receiving a B.S. in chemical engineering from NC State in 2005, Jeff was accepted at MIT and earned a Ph.D. in chemical engineering in 2011. He then worked as a postdoctoral research fellow at Harvard University for four years. In 2015 Jeff was named an assistant...
professor of medicine and biomedical engineering at Washington University in St. Louis. His lab is investigating diabetes with the ultimate goal of developing a transplantable cellular product consisting of insulin-producing cells.

Steffanie Easter (’85) was named director of Navy staff in June 2018. In her role as director, she serves as the senior chief of naval operations (OPNAV) civilian and has oversight of the entire OPNAV organization, as well as 29 Echelon II commands and their many flag officers and special assistants to synchronize their efforts to provide indispensable advice and support to the chief of naval operations and the secretary of the Navy. Furthermore, she is directly responsible for the seamless coordination and execution of all 3/4-Star and Navy flag officer and senior executive service symposiums, thereby synergizing and aligning more than 400 flag officers and senior executives with the chief of naval operations’ and secretary of the Navy’s vision for the U.S. Navy. Previously she served as the principal deputy to the assistant secretary of the Army for acquisition, logistics and technology.

Mary Katherine (Kathy) Lee (MS ’84) was elected to the AIChE Board of Directors for 2017-19. Kathy is a senior chemical engineer at ExxonMobil Corporate Strategic Research in Annandale, NJ. She earned a B.S. in chemical engineering at MIT in 1982, then attended NC State as a G.E.M. scholar, graduating in 1984 with an M.S. in chemical engineering and with a minor in science education. Kathy joined ExxonMobil in 1991 and has worked in separation science, designing and building new lab scale analytical units to make novel liquid and gas separation process measurements. She has served AIChE twice as chair of the Minority Affairs Committee, and more recently as chair of the MAC@25 celebration and as an active member of the Societal Impact Operating Council.

Hal Lawton (’96) was named president of Macy’s Inc. in September 2017. He is responsible for all aspects of the Macy’s brand, including merchandising, marketing, stores, operations, technology and consumer insights and analytics. Previously he served as senior vice president and head of eBay North America from April 2015 to August 2017, overseeing all aspects of eBay’s Americas business unit, including marketing, merchandising, operations, business selling, consumer selling and advertising, as well as global responsibility for shipping, payments, risk and trust. Prior to eBay, Hal spent 10 years in various leadership roles at The Home Depot including director of strategic development, vice president of finance and senior vice president of merchandising. Hal was responsible for starting The Home Depot’s internet business and building it to nearly $2 billion. He served as the president and senior vice president of online at The Home Depot, where he oversaw the strategy, sales and operations of online channels. Prior to The Home Depot, he served as an associate principal at McKinsey & Co. and a process engineer at Champion International Corp. He earned an MBA from the Darden Graduate School of Business at the University of Virginia in 2000.

Harry Sideris (’94) was named senior vice president and chief distribution officer at Duke Energy in 2018. Harry joined Progress Energy (formerly Carolina Power & Light) in 1996 and served in numerous operations, maintenance, technical and leadership roles across Progress Energy’s generation fleet in the Carolinas and Florida. In July 2012, following the merger of Duke Energy and Progress Energy, he became vice president of power generation for Duke Energy’s operations in the western portion of North Carolina and South Carolina, which included coal-fired, hydro and combustion turbine plants. In August 2014, Harry was named senior vice president of environmental, health and safety for Duke Energy, and in 2017 was named Duke Energy’s state president in Florida. As state president, Harry is responsible for the financial performance of Florida and manages state and local regulatory and government relations and community affairs.
Michael Overcash ('66) is co-leading a team whose goal is to fully map the environmental genome. They would create an open-source database and map of origin and development, in both time and place, of molecular building processes for the approximately 100,000 chemicals and materials used commercially to build nearly every product in current use by global society. For the first time, chemists, material scientists and others will be able to utilize — quickly and in detail — the properties and environmental impacts at each stage of manufacture from the earth’s resources through the resultant product or innovation they produce.

Phil Westmoreland ('73) received the 2017 AIChE Institute Award for Excellence in Industrial Gases Technology. The award is sponsored by Praxair, Inc., and it recognizes an individual’s sustained excellence in contributing to the advancement of technology in the production, distribution and application of industrial gases.

Kevin Pait ('79) received the Local Section Award for Shining Star at the AIChE National Meeting in San Francisco, Calif. Kevin started a consulting company in 2017 to serve the pharmaceutical and biotech industries in the areas of project management, operational excellence, maintenance and reliability. Previously he was director of engineering and site services at Catalent Pharma Solutions in Morrisville.

Charlie Gates ('82) was named executive vice president of power operations at Calpine Corporation in Houston, Texas effective April 1, 2016. Charlie previously served as Duke Energy Corporation’s senior vice president and chief fossil/hydro officer. He will report to Calpine’s president and chief executive officer.


Theresa (Parker) Zook ('85) took a job as reliability manager at Mars Petcare in Henderson. Theresa and her husband, Dan, live in Wake Forest.

David Johnson ('86) was named site manager for DuPont’s Spruance Site in Richmond, Va. It’s a multi-plant operation within the DuPont Safety & Construction business.

Joe Parker (M.S. ’86) was elected as a Fellow of the AIChE. He is a mass-transfer equipment specialist in the process engineering group of Eastman Chemical Co. He is also Eastman’s technical representative to Fractionation Research, Inc. where he is vice chair of the design practices committee.

Mike Payne ('87) was named director of packaging innovation at Georgia-Pacific in Atlanta, Ga.

Scott Warlick ('87) was named general manager, manufacturing for Insys Therapeutics at their Round Rock, Texas manufacturing facility. Previously he was senior director of manufacturing at Mylan Laboratories in Morgantown, W.Va.

Bruce Locke (Ph.D. ’89) was named a Fellow of the AIChE. He is associate vice president for academic affairs at Florida State University. Previously he served as chair of the Chemical and Biomedical Engineering Department.

Mark Shiflett ('89) received the 2016 AIChE Institute Award for Industrial Research & Development. He is Foundation Distinguished Professor of Chemical & Petroleum Engineering at the University of Kansas in Lawrence, Kan.

Scott Troutman ('89) was named executive director of the Frankie Lemmon School and Foundation. Scott and his wife, Roslyn, live in Raleigh.

Tim Wallace ('89) received the Local Section Award for Shining Star at the AIChE National Meeting in Minneapolis, Minn. Tim is a senior process engineer at Jedson Engineering in Cary.

Eleanor Cwirko (Ph.D. ’90) was named a fellow at Eastman Chemical Co. Eleanor and her husband, Ed, live in Kingsport, Tenn.

Ramesh Hariharan (M.S. ’92) was named vice president of marketing and medical education at Natera, Inc. on March 16, 2016. Previously he
worked at BioTheranostics, McKinsey, Novartis, Abbott and GE.

Matt Young (’92) was promoted to pipeline integrity assurance manager at ExxonMobil in Houston, Texas.

Stewart McNaull (’93) was named senior vice president of business development at KBI Biopharma in Durham. Stewart heads business development for mammalian, microbial and cell therapy development and manufacturing offerings.

Trent Carrier (’94) was named CEO of CytoSen Therapeutics. Trent and his wife, Melissa, live in Raleigh.

Scott Danner (’94) was named chief operating officer for RestorePoint in Alpharetta, Ga.

Dave Sehgal (’94, M.S. ’99, Ph.D. ’02) was named vice president of process development operations at Fujifilm Diosynth Biotechnologies in Morrisville.

Sheryl Bauer (Ph.D. ’95) was named executive director, program management at Akcea Therapeutics. She and her husband, Michael Bauer (Ph.D. ’98), live in Newtonville, Mass.

Dinesh Matthew (’95) was named operations manager at Intel Corporation in Portland, Ore.

Kimberly (Lewis) Clark (’96) was named vice president, strategic markets at Babcock & Wilcox. She supports growth of the corporate portfolio, in both existing and new markets, with a strategic focus on renewables expansion globally, via energy from waste technology based out of Denmark.

Brad Cozart (’98) was named vice president of supply chain at Red River Tea Company. He and his wife, Heather, live just outside Dallas, Texas.

Chris McDowell (Ph.D. ’98) was named head of operations and site lead for Novozymes Biologicals in Salem, Va.

Shannon Russell (’98) was named executive vice president of operations at Atticus, LLC. Previously Shannon served as founder and CEO of Proventis LifeScience. Shannon and his wife, Le, live in Raleigh.

Emily Martin (’99) was named chief commercial officer at GE Hitachi Nuclear Energy. In this position she has leadership of GE Hitachi sales, marketing and commercial operations.

Michelle (Staben) Wobker (’99) was promoted to senior scientific program manager at Humacyte in RTP.

Carnley Norman (Ph.D. ’00) was named vice president of manufacturing operations at KBI Biopharma in Durham.

Conchita Jimenez-Gonzalez (Ph.D. ’01) earned an MBA from the NC State Poole College of Management.

Neal Robbins (’01) was selected by the Triangle Business Journal for a 40 Under 40 Leadership Award. The 40 Under 40 Awards were established to “recognize outstanding professionals under the age of 40 for their contributions to their organizations and to the community.”

Kim Roberts (’02) was promoted to director of recruiting, enrollment management and educational partnerships for the College of Engineering at NC State. In addition to Kim’s work in academic affairs, she is the chapter advisor to the AIChE Student Chapter.

Garett Franklin (’03) completed his fellowship in sports medicine at Wake Forest in June 2016. He is joining Raleigh Medical Associates in Cary. He is one of the team doctors for NC State’s athletic program.

Sarah (Guttu) Jones (’03) was promoted to Americas basestocks and specialties product manager for ExxonMobil. She and her husband, Roger, live in Humble, Texas.

Yvonne Ledford (’03) is working in Switzerland as an automation engineer in a dual role as project manager and system owner for the new Biogen facility.

Mara (Ondeck) Bishop (’04) was named North America sales group manager for Kordsa Global. She and her husband, Brandon, live outside Chattanooga, Tenn.

Nick Williams (’04) earned an MBA from Duke University in May 2017. Nick is working for Bank
Alumni Notes (continued)

of America in their Consumer Bank Leadership Development Program in Charlotte.

**Jason Bruce** (M.S. ’05) was named associate director, operations planning & analytics at Gilead Sciences. He lives in San Mateo, Calif.

**Melissa (Evans) Copeland** (’05) was named global business director at Gulbrandsen Chemical in Orangeburg, S.C. Melissa and her husband, Josh, live in Greenville, S.C.

**Chris Shaul** (’05) was named plant manager at the DuPont site in Dayton, Ohio. The plant makes electronic grade polymers for the manufacture of advanced photoresists. Chris and his wife, Katherine Schadel-Shaul (’05), live in Springboro, Ohio.

**Rebecca (Robertson) Williams** (’05) earned an M.S. in chemistry from UNC Wilmington in December 2016. Rebecca teaches chemistry at Nash Community College in Rocky Mount.

**Robby Moorefield** (’06) was named plant manager at CJB Industries in Valdosta, Ga.

**Elizabeth Nance** (’06) was named the Clare Boothe Luce Assistant Professor of Chemical Engineering at the University of Washington in 2015. Elizabeth and her husband, Tommy, live in Seattle, Wash.

**Shannadora (Hollis) Barnes** (’07) earned an M.S. in molecular medicine in May 2013 from the University of Maryland, Baltimore. She is an instructor at Sylvan Learning Center in Greenville where she conducts ACT / SAT workshops and robotics and coding camps.

**Melissa Bebb** (’07) earned an MBA from Duke’s Fuqua School of Business in May 2017. Melissa is a management consultant in PwC’s pharmaceutical/life sciences practice in Chicago, Ill.

**Kristen Comfort** (Ph.D. ’07) won a five-year, $542,000 National Science Foundation CAREER award to support her quest to build a cellular model that acts more like a human body, allowing for a better understanding and visualization of human-drug interactions. Kristen is an Associate Professor at the University of Dayton.

**Brandon Fincher** (’07) was named director, business & marketing operations at Avista Pharma Solutions in April 2017.

**Kendall Foster** (’07) earned an MBA from Harvard Business School in May 2016. Kendall is at Boston Consulting Group in Washington, DC.

**Tien Nguyen** (’07) earned an M.S. in mechanical engineering from NC State in May 2018. Tien is an engineer at the Naval Surface Warfare Center near Washington, DC.

**Lisa Saxon** (’07) was promoted to associate director, process optimization & effectiveness and manufacturing technical operations at Biogen in January 2018.

**John Thompson** (’07) earned a Ph.D. in chemical engineering from UCLA in April 2017. John is a research engineer at NL Chemical Technology in Mt. Prospect, IL.

**Willie Barton** (’08) earned an MBA from Rice University in May 2018. Willie is a commercial account manager.

**Vanessa Blalock** (’08) earned an MBA at Georgetown University in May 2015. Vanessa is global strategy and operations lead at Google in Mountain View, Calif.

**Sara (Trexler) Gould** (’08) was promoted to senior scientist I at Novozymes.

**Taylor Kirkland** (’08) earned an MBA from Xavier University in July 2016. Taylor is an integrated business planning lead at Albemarle Corporation in Charlotte.

**Cliff Tse** (’08) earned a Master of Healthcare Administration degree at UNC-Chapel Hill in August 2015. Cliff is a revenue operations manager at Guangzhou United Family Health Care in Beijing, China.

**Stephanie (Goss) Yonce** (’08) was promoted to product manager at KaVo Kerr. Stephanie and her husband, Kyle, live in Charlotte.

**Aria Behrouzi** (’09) earned a D.O. from Edward Via College of Osteopathic Medicine in Spartanburg, S.C. in May 2018. Aria is a family
Steven Gray (Ph.D. ’09) was named regulatory coordinator at Duke Cancer Institute in Durham.

Dane Grismer (’09) earned a Ph.D. in chemical engineering at Notre Dame in August, 2015. Dane is completing a post-doctoral position with Dr. Orlin Velev at NC State.

Sara Perrin (’09) earned an M.S. in engineering management from Duke University in May 2016. Sara is a continuous improvement specialist with the Kellogg Company in Omaha, Neb.

Nicky (Seabrook) Steinhauer (’09) was promoted to global production manager at Biogen in March 2017. Nicky earned an MBA from NC State University in December 2017.

Trent Tovar (’09) earned a Ph.D. in chemical engineering from Vanderbilt University in March 2016.

Sarah Tweed (’09) earned an MBA from the University of South Carolina’s Darla Moore School of Business in December 2015. She is currently in sales as an account manager for Milliken Chemical in Spartanburg, S.C.

Jake Vestal (’09) founded Vestal Consulting in August 2016 which specializes in systems solutions at the interface of data and business problems.

Steven Burgess (’10) earned a Ph.D. in chemical engineering from the Georgia Institute of Technology in 2015. He is a process development engineer at BASF in Charlotte.

Raleigh Davis (’10) earned a Ph.D. in chemical engineering from Princeton in October 2015. He is a researcher at Solvay in Alpharetta, Ga.

Matt Gebbie (’10) earned a Ph.D. in materials science from the University of California at Santa Barbara in December 2015. Matt is a post-doctoral researcher at Stanford University in the Department of Materials Science. He was awarded one of two 2016-18 Geballe Laboratory for Advanced Materials (GLAM) Postdoctoral Fellowships at Stanford.

Lara Jazmin (’10) earned a Ph.D. in chemical engineering at Vanderbilt University in September 2015. Lara co-founded a biotech startup company, Metalytics, with her former advisor doing metabolism studies with other biotech / pharma companies and is located in RTP where she is a project manager at Catalent Pharma Solutions.

Brandon Jones (’10) earned a Ph.D. in forest biomaterials from NC State in July 2017. Brandon is a senior chemist at Novozymes in Franklinton.

Arouna Liloudini (’10) earned an MBA from Texas A&M in December 2017. Arouna is a chemicals maintenance manager at Flint Hills Resources in Corpus Christi, Texas.

Peter McAnulty (’10) earned an MBA at James Madison University in May 2017. Peter is a senior scientist at Merck in West Point, PA.

Daniel McIlmoyle (’10) earned an M.S. in brewing and beverage technology from the Technical University of Berlin in December 2016. Daniel is the lead brewer at Hyde Brewing in Charlotte.

Jacob Thelen (’10) earned a Ph.D. in chemical engineering from the University of California at Berkeley in December 2016. Jacob is a National Research Center postdoctoral fellow at the National Institute of Standards and Technology in Gaithersburg, Md.

Mariah Woodroof (’10) earned a Ph.D. in chemical engineering from the University of Delaware in August 2016. She is an environmental health and safety specialist at Tulane University in New Orleans, La.

Jennifer Gowen Biggs (’11) earned an MBA from UNC-Chapel Hill in October 2016. Jennifer is director of customer success at Ampogee in Greensboro.

Alexander (Zan) Haywood (’11) earned a Ph.D. in chemical engineering from Auburn University in July 2016. Zan is a process development engineer in the innovations department at Orion Engineered Carbons in Houston, Texas.

Charles Jones (’11) earned a Ph.D. in chemical and biological engineering from the University at Buffalo (SUNY-Buffalo) in August 2015. He founded Abcombi Biosciences, a spinoff company based on his Ph.D. work and serves as
Allie Landry (‘11) earned a Ph.D. in chemical engineering from the University of California at Berkeley in May 2016. Allie is a lecturer in chemical engineering at the University of California at Berkeley.

Jen Lewis (‘11) earned a Ph.D. in chemical engineering from MIT in June 2017. Jen is a scientist at Vertex Pharmaceuticals in Boston, Mass.

Tim Moore (‘11) earned a Ph.D. in chemical engineering at Vanderbilt University in 2017. Tim is a postdoctoral fellow in the Department of Chemical Engineering at the University of Michigan in Ann Arbor, Mich.

Ian Njoroge (‘11) earned a Ph.D. in chemical engineering from Vanderbilt University in August 2017. Ian is a process engineer at Intel in Rio Rancho, N.M.

Jonathan Peters (‘11) earned a Ph.D. in chemical engineering from the University of Texas at Austin in December 2015. Jonathan is the assistant director and a research fellow at the Institute for Biomaterials, Drug Delivery and Regenerative Medicine at the University of Texas at Austin.

Sindu Sevala (‘11) earned an M.S. in cancer biology from Duke University in May 2015 and an M.S. in analytics from NC State in May 2017. Sindu is an engineer at SAS in Cary.

Rebekah Sickler (‘11) earned an MBA with a focus on supply chain management from East Carolina University in May 2018. Rebekah is a manufacturing team lead at Biogen in RTP.

Dominic Brown (‘12) was named global product manager for Albemarle’s Bromine Business. Dominic and his wife, Katherine, live in Charlotte.

Kelly Fitzwater (‘12) earned an M.S. in materials science and engineering at NC State in May 2018. Kelly is an executive manager in the corporate audit staff at GE in Phoenix, Ariz.

Brittany Glatz (‘12) earned a Ph.D. in chemical engineering from Clemson in May 2018.

Ben Huffman (‘12) returned to the Raleigh area to take a job as a process engineer with Novo Nordisk in Clayton.

Louie Kachulis (‘12) earned a J.D. degree from the University of Southern California in Los Angeles, Calif. in May 2017. Louie is an in-house attorney for LegalZoom.com in Glendale, Calif.

Amir Lyall (‘12) earned an M.S. in analytics from NC State in May 2017. Amir is a senior associate solution consultant at SAS in Cary.

Declan Nishiyama (‘12) earned an MBA from the Georgia Institute of Technology in May 2018. Declan is a senior product manager at Amazon in Seattle, Wash.

Therese Nguyen (‘12) earned a Doctor of Pharmacy degree from Wingate University in May 2016. Therese is a pharmacist at Target in the Greensboro/Winston Salem area.

Janie Olsen (‘12) earned an M.D. degree from Quinnipiac University. She is completing her residency at Yale in New Haven, Conn.

Matt Ostrowski (‘12) earned a Ph.D. in chemical engineering from Stanford University in June 2017. Matt is a postdoctoral researcher at the University of Michigan Medical School in Ann Arbor, Mich.

Dayne Plemmmons (‘12) earned a Ph.D. in chemical engineering at the University of Minnesota in August 2017. Dayne is an optical research scientist at Det-Tronics in Minneapolis, Minn.

Megan Smithmyer (‘12) earned a Ph.D. in chemical engineering from the University of Delaware in May 2018. Megan is a postdoctoral fellow working with UNC-Chapel Hill and the University of Zambia in Lusaka.

Christina Tang (Ph.D. ‘12) was selected to receive a five-year, $500,000 National Science Foundation CAREER Award. Christina is an assistant professor in the Department of Chemical and Life Sciences Engineering at Virginia Commonwealth University.

Andrew Tibbits (‘12) earned a Ph.D. in chemical engineering from the University of
Delaware in May 2017. Andrew is a research scientist at the Air Force Research Lab in Dayton, Ohio.

Edward Tomlinson (’12) earned a Ph.D. in chemical engineering from Purdue University in 2017. Edward is a research chemist at Bostik in Milwaukee, Wis.

Nick Venuti (’12) earned an M.S. in data science from the University of Virginia in May 2016. Nick is a machine learning engineer at Morgan Stanley in New York City.

Shu Zhu (’12) earned a Ph.D. in chemical engineering at the University of Pennsylvania in Philadelphia, Pa. in May 2017. Shu is a postdoctoral researcher at Columbia University in New York City.

Lauren Cagley (’13) was promoted to business analysis supervisor at the ExxonMobil refinery in Beaumont, Texas.

Alex Covington (’13) earned a J.D. degree from the UNC-Chapel Hill School of Law in May 2016. Alex is a patent attorney with Sterne Kessler Goldstein & Fox in Washington, DC.

Bassil El-Zaatari (’13) earned a Ph.D. in chemical engineering from the University of Delaware.

Ida Githu (’13) earned an M.S. in water science, policy and management from Oxford University, England in November 2015. Ida is working with Energy, Environment and Development Advisory, a consulting firm in Kenya that addresses water and sanitation access for rural and urban areas.

Isaac Kichak (’13) returned to the Raleigh area as a process engineer with IPS-Integrated Project Services in Morrisville.

Stefano Menegatti (Ph.D. ’13) was selected to receive a five-year National Science Foundation CAREER Award for his proposal “CAREER: Light- and temperature-controlled peptide ligands for purifying blood factors and orphan enzyme drugs.” Stefano is an assistant professor in CBE at NC State.

Garrett Pengelly (’13) earned an MBA from UNC-Chapel Hill in May 2018. Garrett is an investment banking associate at Bank of America Merrill Lynch in New York City.

Brian Schuster (’13) earned an MBA from Stanford in June 2017. Brian is an operations manager for Verado Extraction Systems in Los Angeles, Calif.

Ashwin Srikrishna (’13) earned a Ph.D. in nuclear engineering at the University of Tennessee Knoxville in May 2018. Ashwin is a space environment engineer for the Harris Corporation in Rochester, N.Y.

Chase Stamey (’13) earned a Ph.D. in chemical engineering from the University of Florida in May 2018.

Kevin Ward (’13) earned a Ph.D. in chemical engineering from the University of Florida in May 2018. Kevin is a research scientist at W.L. Gore and Associates in Pike Creek, Del.

Robert Wayland (’13) earned a J.D. degree from Campbell Law School in May 2016. Robert is an attorney at Womble Bond Dickinson in RTP.

Ezinne Achinivu (Ph.D. ’14) was selected as a Fulbright Scholar. Achinivu was selected to work in Reims, France, as the region has a need for Ph.D.-level engineers in the field of biotechnology and bioprocessing.

Elsie Bjarnason (’14) earned an M.S. in international science and technology policy from George Washington University in May 2017. Elsie is a researcher at Lawrence Livermore National Lab in Livermore, Calif.

Tim Brantley (’14) earned an M.S. in biomanufacturing from NC State in May 2018. Tim is an engineer at Biogen in RTP.

Cathy Fromen (Ph.D. ’14) joined the faculty in the Department of Chemical & Biomolecular Engineering at the University of Delaware in 2017 as a tenure-track assistant professor.

Andi Huffman (’14) returned to the Raleigh area as a production engineer with Mallinckrodt Pharmaceuticals.

Andy Lee (’14) earned an M.S. in food science from NC State in August 2016. Andy is a manufacturing systems scientist at Daisy Brand in Garland, Texas.
Alumni Notes (continued)

Neil Quinn (’14) was named operations manager at Gulfstream Aerospace in Savannah, Ga. He and his wife, Brittany, live in Savannah, Ga.

Kornkanok Sintavanon (’14) received her U.S. citizenship on April 10, 2015. She officially changed her name to Kate Tong to reflect her marriage in 2011 and her new citizenship. Kate is a process engineer at Merck in Elkton, Va.

David Williams (’14) earned an M.S. in chemical engineering from Iowa State in November 2016. David is a researcher at the Environmental Protection Agency in RTP.

Hayden Brochu (’15) earned an M.S. in bioinformatics from NC State in May 2018 and is working toward a Ph.D. in bioinformatics.

Stacey Kelly (’15) earned an M.S. in materials engineering from Purdue University in West Lafayette, Ind. in July 2017. Stacey is a graduate student in engineering education at Virginia Tech in Blacksburg, Va.

Kasey Koballa (’15) earned a J.D. degree from the College of William and Mary in May 2018. Kasey is a patent litigation attorney at Kilpatrick Townsend in Washington, D.C.

Graham Mossinghoff (’15) earned an MBA from the College of William and Mary in May 2018.

Laura Sandtner (’15) was named business development manager at Alcami Corporation in Nashville, Tenn.

Sawyer Walters (’15) earned an M.S. in environmental engineering from NC State in December 2017. Sawyer is an engineer at Dewberry in Raleigh.

Kenny Mineart (Ph.D. ’16) joined the chemical engineering faculty at Bucknell University. Kenny has 14 publications accepted/in print from NC State (seven first-authored), eight more planned for submission this year and four journal covers.

Hannah Taylor (’16) earned an M.R. in biomanufacturing from NC State in May 2018. Hannah is an engineer at Pfizer in Sanford.

Connor Thompson (’16) earned an M.R. in biomanufacturing from NC State in May 2018. Connor is an engineer at Pfizer in Sanford.

Trey Wright (’16) earned an M.S. in chemical engineering from Michigan State in May 2018. Trey is a law school student at the University of Notre Dame.

Marriages

Christine Lin (’01) and Laurance Johnson on July 16, 2016. Christine is an oncologist at Providence St. Vincent Medical Center in Portland, Ore.

Tyler Sharkey (’01) and Leslie Talbott on February 20, 2018. Tyler is an associate director of chemical engineering at Asymchem Group in Morrisville.

Leslie Pezzullo (’02) and Matt Grogg on October 7, 2017. Leslie is a technology manager at the U.S. Department of Energy in Washington, DC.

Valerie Tse (’02) and Ben Chou on June 27, 2015. Valerie is an engineer at ExxonMobil in Los Angeles, Calif.

Glenn Auman (’03) and Blair Scott on April 23, 2016. Glenn works at Pfizer in Sanford.

Josh McCall (’03) and Lauren Perdue on April 23, 2016. Josh is a process development engineer at Humacyte in Durham.

Sara St. Vincent (’03) and Crane Sorensen on July 5, 2016. Sara is solvents supply manager at Shell Chemical Company and executive director of the nonprofit organization Catapult in Houston, Texas.

Merrick Miles (’04) and Freeman Jones on April 29, 2017. Merrick is an assistant professor of anesthesiology at Vanderbilt University Medical Center in Nashville, Tenn.
Sid Usry (‘05) and Amy Davidson on April 16, 2016. Sid is an experimental flight test engineer in the U.S. Air Force.

Patrick Cleary (‘06) and Marjorie Palmer on June 17, 2017. Patrick is a product liability attorney at Bowman and Brooke in Columbia, S.C.

Elizabeth Nance (‘06) and Tommy Wood on May 26, 2018. Elizabeth is the Clare Boothe Luce Assistant Professor of Chemical Engineering at the University of Washington in Seattle, Wash.

Doug Way (‘06) and Michele Lehtma on October 10, 2015. Doug is the southeast technical application manager at Aikawa Fiber Technologies in Savannah, Ga.

Julian Willoughby (‘06) and Tara Usher on September 26, 2015. Julian is a physician at Carolinas Healthcare System in Charlotte.

Gabe Anderson (‘07) and Caroline Schwechlen on July 7, 2018. Gabe is a drug product expert at Sandoz Global in Basel, Switzerland.

Chris Broda (‘07) and Jackie Guarino on June 12, 2015. Chris is a resident pediatric physician at Texas Children’s Hospital in Houston, Texas.

Leighton Burton (‘07) and Gavin Fairbairn on August 27, 2016. Leighton is an engineering manager at Marathon Oil in Malabo, Equatorial Guinea.

Hunter Morris (‘07) and Mason Truluck on September 10, 2016. Hunter is a manager at International Paper in Riegelwood.

Wes Overton (‘07) and Kristen Engberg on June 25, 2016. Wes is a biomedical scientist at Lawrence Livermore National Laboratory in San Francisco, Calif.

Joel Ortiz Prieto (‘07) and Sabrina Chike on May 29, 2017. Joel is a validation manager at MedImmune in Philadelphia, Pa.

Vanessa Blalock (‘08) and Brian Olion on November 24, 2015. Vanessa is a global strategy and operations lead at Google in Mountain View, Calif.

Lauren Crumpler (‘08) and Dayne Murray, September 26, 2015. Lauren is a process expert at Seqirus in Singapore.

Stephanie Goss (‘08) and Kyle Younce on December 12, 2016. Stephanie is an associate product manager at KaVo USA in Charlotte.

Christie Hagan (‘08) and David DeVane on June 3, 2017. Christie is a system engineer at Duke Energy in Southport.

Derek Hernandez (‘08) and Narisa Rattananinad on February 24, 2018. Derek is a research scientist at TeVido BioDevices in Austin, Texas.

Taylor Loftis (‘08) and Maureen Doran on May 14, 2016. Taylor is a senior consultant with Trinity Consultants in Charlotte.

Matt Markland (‘08) and Melissa Henry on May 21, 2016. Matt is a production engineer at Ashland, Inc. in Hopewell, Va.

Wran Metzler (‘08) and Marnie Silverstein on September 6, 2015. Wran is an engineer at 3A Composites in Winston-Salem.

Erika White (‘08) and Will Lindsey on July 13, 2017. Erika is a project manager with IPS in Morrisville.

Jamie Forbis (‘09) and John Jackson on October 1, 2017. Jamie is an engineer at Biogen in RTP.

Zach Nicholson (‘09) and Callie Archer on May 29, 2016. Zach is an engineer at ExxonMobil in Tyler, Texas.

Henryk Orlik (‘09) and Britton Noble on October 21, 2017. Henryk is a wastewater engineer at Shell in Houston, Texas.

Metts Potter (‘09) and Kelly Kaiserin on September 10, 2016. Metts is a department manager at Procter & Gamble in Greensboro.

Nicky Seabrook (‘09) and Andrew Steinhauser (‘09) on October 29, 2016. Nicky is a global production planner at Biogen, and Andrew is a manager of downstream production at Ajinomoto.

Garrett Swindlehurst (‘09) and Anna Haugen on August 20, 2016. Garrett is a development specialist at Praxair in Buffalo, N.Y.

Peiwen Thor (‘09) and Larry Whysall on July 31, 2015. Peiwen is an engineer at GE in Wilmington.
BJ Ward (’09) and Matt Grau on August 16, 2015. BJ is a researcher at ETH in Zurich, Switzerland.

Chris Austin (’10) and Jennifer Devaney on October 14, 2017. Chris is an engineer at KBI Biopharma in Durham.

Michaela Bennett (’10) and Justin McKenzie (’10) on October 10, 2015. Michaela is a water and wastewater environmental consultant with DuPont; Justin is a process section supervisor at the ExxonMobil refinery in Beaumont, Texas.

Travis Bernard (’10) and Hillary Morgan on January 14, 2017. Travis is a process engineer with Georgia-Pacific in Charlotte.

Juan Castano (’10) and Gina Neugebauer on October 29, 2016. Juan is a process development scientist at EMD Millipore.

Raleigh Davis (’10) and Mary Burroughs (’12) on November 4, 2017. Raleigh is a researcher at Solvay in Alpharetta, Ga. and Mary is completing a Ph.D. in chemical engineering at Princeton University.

Divine Edem (’10) and Chukwuemeka El-Dad Onuorah on March 4, 2017. Divine is an engineer at Commissioning Agents Inc. in Raleigh.

Courtney Fox (’10) and Josh Converse on May 13, 2017. Courtney is a research scientist at Carbon3D Inc. in Redwood City, Calif.

Brandon Jones (’10) and Katherine Thomas on October 10, 2015. Brandon is a senior chemist at Novozymes in Franklinton.

Emily Lattimer (’10) and Justin Bastarrechea, on July 22, 2017. Emily is a lead manufacturing associate at Biogen in RTP.

Patrick Parr (’10) and Chelsea Crenshaw on April 6, 2018. Patrick is an engineer at Prysmian Group in Greenville, S.C.

Jeff Poley (’10) and Lindsey Spitz on October 24, 2015. Jeffrey is a product innovation engineer at Celgard LLC in Charlotte.

Brad Reese (’10) and Amanda Evans on June 27, 2015. Brad is a plant engineer and maintenance manager at Shurtape in Hickory.

Ben Roberts (’10) and Emily Mackie on July 1, 2017. Ben is a process engineer at Jedson Engineering in Cary.

Lauren Stanulis (’10) and Justin Hartley on May 13, 2017. Lauren is a chemical engineer at ERG in Morrisville.

Peter Venema (’10) and Brandi Melvin on June 28, 2015. Peter is an engineer at Skyware Global in Smithfield.

Amanda Vorenkamp (’10) and Andy Scott on April 30, 2016. Amanda is an innovation project manager at Henkel in East Granby, Conn.

Mariah Woodroof (’10) and Nick Sandoval on August 5, 2017. Mariah is an environmental health and safety specialist at Tulane University in New Orleans, La.

Blake Clayton (’11) and Rachel Parks on October 14, 2017. Blake is a process engineer at Ryan Design Consulting in RTP.

Robert Deedrick (’11) and Erin Catzen on October 10, 2015. Robert is a process engineer at Corning Cable Systems in Hickory.

Jeff Fadool (’11) and Erica Winner on November 4, 2017. Jeff is an MPS specialist at Merck in Durham.

Colleen Fesler (’11) and Andrew Hagopian on April 13, 2018. Colleen is a technical analyst with Time Warner Cable in Charlotte.

Sydne Folger (’11) and Ryan Stone on April 8, 2017. Sydney is an audit consultant at Duke Energy in Charlotte.

Brian Gensch (’11) and Allison Brooke on June 25, 2016. Brian is a consulting engineer at CRB in Cary.

Jennifer Gowen (’11) and Mason Biggs on November 7, 2015. Jennifer is director of customer success at Ampogee in Greensboro.

Colton Hightower (’11) and Amber Harrison on September 10, 2016. Colton is an engineer at Frito-Lay in Perry, Ga.

Charles Jones (’11) and Laylee Kekki on May
29, 2016. Charles is the CEO of Abcombi Biosciences in Buffalo, N.Y.

Allie Landry ('11) and Stanley Herrmann on April 1, 2017. Allie is a lecturer in chemical engineering at the University of California at Berkeley.

Alex Markiewicz (M.S. '11) and Adam Hebert on September 12, 2015. Alex is a manufacturing engineer at Eastman in Springfield, Mass.

Matt Lemieux ('11) and Jessica Yescas on April 4, 2015. Matt is a graduate student in chemical engineering at the University of Utah in Salt Lake City, Utah.

Doug Mehlenbacher ('11) and Taylor Voyles on November 14, 2015. Doug is a process engineer at Rayonier.

Dhaval Mistry ('11) and Bhumi Mistry on December 27, 2015. Dhaval is a process engineer at Merck in Durham.

Ryan Oliver ('11) and Susanna Roberts on September 17, 2016. Ryan is an engineer at Sonoco in Hartsville, S.C.

Mason Pedzwater ('11) and Ashley Hunter on March 25, 2017. Mason is a process engineer at Corning Incorporated in Charlotte.

Genevieve Pike ('11) and Mark Flatgard on January 15, 2017. Genevieve is an enlisted math division director in the U.S. Navy in Goose Creek, S.C.

Richard Pridgen ('11) and Megan Loughran on March 18, 2017. Richard is an advanced manufacturing engineer at BorgWarner Inc. at Bellwood, Ill.

Ahsan Raina ('11) and Waseem Ahmed on August 15, 2015. Ahsan is completing a residency in pediatric dentistry.

Chip Reap ('11) and Brooke Griff on June 11, 2016. Chip is employed at Tate and Lyle in Knoxville, Tenn.

Kristen Roskov (Ph.D. '11) and Mike Dobslaw (MBA '06), June 18, 2016. Kristen is a field sales representative for BASF.

Justin Zickler ('11) and Courtney Magiera on September 10, 2016. Justin is a project engineer at Professional Project Services in Raleigh.


Marshall Bowden ('12) and Christine Burdett ('13) on August 22, 2015. Marshall is an engineer at Maverick Biofuels in RTP, and Christine is an associate automation engineer at Merck in Durham.

Billie Jo Bowen ('12) and Cole Shields on September 3, 2016. Billie Jo is a junior application engineer at Busch Vacuum Pumps and Systems in Virginia Beach, Va.

LeAnne Brozovsky ('12) and Chris Adkins on September 25, 2016. LeAnne is a manufacturing associate at Seqirus in Holly Springs.

David Brower ('12) and Brittany Lang on May 28, 2016. David is employed at Ambitech, an engineering consulting firm in Chicago, Ill.

Amanda Cox ('12) and Michael Inks on June 11, 2016. Amanda is an engineer at Seqirus in Holly Springs.

Brenton Daino ('12) and Casey Helms on May 21, 2016. Brenton is an automation engineer at NNE Pharmaplan in Morrisville.

Deidra Dunn ('12) and Darrel Person on June 7, 2018. Deidra is a training manager at Revlon in Oxford.

Brian Fanning ('12) and Sarah Lynch on March 25, 2017. Brian is a team leader at Domtar in Port Huron, Mich.

Andrea Gill ('12) and Matt Green on May 9, 2015. Andrea is a process engineer at Novozymes in Franklin.

Elijah Gore ('12) and Jasmine Broadnax on September 5, 2015. Elijah is a process engineer at Kapstone Paper in Roanoke Rapids, Va.

Chris Helms ('12) and Kaitlin Brown on June 11, 2016. Chris is a process engineer at NNE Pharmaplan in Morrisville.

Ben Huffman ('12) and Andi Hawsley ('14) on October 17, 2015. Ben is a process engineer...
Marriages (continued)

at Novo Nordisk in Clayton, and Andi is senior EHS engineer at Mallinckrodt Pharmaceuticals in Raleigh.

David Jackson (’12) and Sarah Jennings on October 7, 2017. David is a maintenance supervisor and process engineer at Hexion Inc. in Brady, Texas.

Brennan Johnson (’12) and Kelly Erexson on March 24, 2018. Brennan is an engineer at Seqirus in Holly Springs.

Louie Kachulis (’12) and Brittany Dunton on April 28, 2018. Louie is an in-house attorney for LegalZoom.com in Glendale, Calif.

Kate Leonik (’12) and Matthew Shinkwin on October 8, 2017. Kate is a real estate broker at Berkshire Hathaway near Southern Pines.

Amy Madden (’12) and Andrew Dimmette on August 15, 2015. Amy is an engineer with Merck in Durham.

Vincent Malikasim (’12) and Katie Pajerowski on May 26, 2018. Vincent is an engineer at Biogen in RTP.

Amanda Mercer (’12) and Jon Bernardina on September 26, 2015. Amanda is an analyst at Cirrus Pharmaceuticals in Morrisville.

Andrew Mills (’12) and Emily Sanderson on March 19, 2016. Andrew is a validation technician at BD Rx in Wilson.

Declan Nishiyama (’12) and Christine Fleming on September 3, 2016. Declan is a senior project manager at Amazon in Seattle, Wash.

Lacey Raschke (’12) and Chris Tinkle on October 21, 2017. Lacey is a surface warfare officer in the U.S. Navy.

Nicole Santos (’12) and Langston Swan on September 24, 2016. Nicole is an engineer at Unifi in Yadkinville.

Brooke Smith (’12) and Isaac Biddle on April 8, 2017. Brooke is operations maintenance coordinator at International Paper in Maysville, Ky.

Kevin Ventura (’12) and Kathleen Cline on October 14, 2017. Kevin is a process engineer at CRB in Cary.

Stephen White (’12) and Justine Braunger on March 3, 2018. Stephen is a graduate student in molecular biophysics and structural biology at the University of Pittsburgh in Pittsburgh, Pa.

Shu Zhu (’12) and Yichen Lu on December 24, 2016. Shu is a postdoctoral researcher at Columbia University in New York City.

Jason Baker (’13) and Rachel Levy on September 24, 2016. Michael is employed at Kinemax Engineers in Gastonia.

Eric Blake (’13) and Cathy Robinson on September 6, 2015. Eric is an engineer with ExxonMobil in Baytown, Texas.

Walker Burnette (’13) and Paige Mattina on September 6, 2015. Walker is an engineer with the Linde Group in Stewartsville, NJ.

Ahmad Busaileh (’13) and Samar Belaid on December 29, 2015. Ahmad is pursuing an M.D. at Ross University School of Medicine in Chicago, Ill.

Oswaldo Chavez (’13) and Emily Saylor on April 2, 2016. Oswaldo works at Hospira in Rocky Mount.

Kevin Daniel (’13) and Ann Sautter on June 18, 2016. Kevin is an engineer at Sonoco in Hartsville, S.C.

Matt Gates (’13) and Samantha McDonald on June 3, 2017. Matt is an estimator at Gates Construction Company in Mooresville.

Jonas Gilbert (’13) and Missy Zinter September 16, 2017. Jonas is an engineer at Air Pollution Control in Cary.

Laura Hardesty (’13) and John Thompson on August 12, 2017. Laura is a process engineer at Novo Nordisk in Clayton.
Adrien Hauswald ('13) and Powers Gatlin on May 28, 2016. Adrien is PSI & global operations process leader at GE Power & Water in Schenectady, N.Y.

Mitchell Lancaster ('13) and Abby Weagraff on August 12, 2017. Mitchell is an engineer at Schneider Electric in Raleigh.

Marguerite LaRonde ('13) and Andrew Birch on August 18, 2017. Marguerite is a process engineer at CRB in Cary.

Sarah Long ('13) and Samuel Fatool on July 3, 2016. Sarah is a graduate of Ben Gurian University’s medical school in Israel.

Brinda Monian ('13) and Gokul Subramanian on September 4, 2016. Brinda is a Ph.D. student in chemical engineering at MIT in Boston, Mass.

Jack Nugent ('13) and Amanda Harris on October 10, 2015. Jack is an engineer at Goodyear in Fayetteville.

Thomas Osteen ('13) and Mallory Moran ('14) on December 31, 2016. Thomas is a process engineer at International Paper in Eastover, S.C. and Mallory is a monomers production engineer at DAK Americas in Columbia, S.C.

Matt Parham ('13) and Kelley McGill on August 26, 2017. Matt is utilities area reliability leader at Georgia-Pacific in New Augusta, Miss.

Tyson Pickard ('13) and Lauren Wells on May 26, 2018. Tyson is a process manager at International Paper in Texarkana, AR.

Jessa Ren ('13) and Michael Spaxman on May 20, 2017. Jessa is an engineer at SpecLine Consulting in Raleigh.

Jeremy Roberts ('13) and Hannah Dagenhart on October 10, 2015. Jeremy is an engineer at OSIsoft in Johnson City, Tenn.

Johnathan Roesch ('13) and Rachel Lyszczyk on February 10, 2018. Jonathan is a pulp mill superintendent at KapStone in Charleston, S.C.

Ross Smith ('13) and Gabrielle Revette on August 29, 2015. Ross is an account manager with Haldor Topsoe in Houston, Texas.

Rachel Snyder ('13) and Jeremy Hodges on July 8, 2017. Rachel is an SVP aseptic filling supervisor at Hospira in Rocky Mount.

Yui Terada ('13) and Ryo Kashihara on February 11, 2018. Yui is an engineer at JGC in Yokohama, Japan.

Austin Uzzell ('13) and Amber Knight on October 1, 2016. Austin is a process engineer with UNILIN in Thomasville.

Spencer Vaughn ('13) and Chelsea Rawson on October 3, 2015. Spencer is employed at RoviSys in Apex.

Kevin Ward ('13) and Kimberly Marshburn on September 31, 2015. Kevin is a research scientist at W.L. Gore and Associates in Pike Creek, Del.

Alex Woodrow ('13) and Liselotte Ross on March 24, 2018. Alex is a process engineer at CertainTeed in Durham.

Sean Auffinger ('14) and Caitlin Kerr on September 15, 2017. Sean is a materials, process and physics engineer at Boeing Company in Charleston, S.C.

Trent Blevins ('14) and Faith Beammon on October 17, 2015. Trent is an instrumentation and controls engineer at Hipp Engineering in Raleigh.

Geoff Bogner ('14) and Eva Frantz on October 28, 2017. Geoff is a process engineer at Kimberly Clark in Beech Island, S.C.

Zachary Culberson ('14) and Katy Gragnani on June 16, 2018. Zach is an engineer at Robert E. Mason in Richmond, Va.

Jesse Dean ('14) and Catherine Darragh on October 14, 2017. Jesse is a mechatronics engineer at Delta Five in Raleigh.

Sawyer Hubbard ('14) and Shelby Gabello on September 23, 2017. Sawyer is a product development engineer with Reynolds American in Winston-Salem.

Kendre Kesler ('14) and Scott Burnett on May 20, 2017. Kendre is an engineer at Kimberly Clark in Beech Island, S.C.

Branson Kinsey ('14) and Molly Lewis on January 21, 2017. Branson is an engineer at Highland Industries in Kernersville.
Marriages (continued)

Jon Lewis (‘14) and Alicia Bullerwell on August 9, 2015. Jon is a validation engineer at CAI Consulting in Boston, Mass.

Nate Madison (‘14) and Ginger Taro on September 17, 2016. Nate is a technology engineer at Goodyear Tire and Rubber in Fayetteville.

Bendon Riordan (‘14) and Kelsey Boykin (‘14) on September 12, 2015. Benton is a product engineer at Lord Corporation in Cary, and Kelsey is a process engineer at GSK in Zebulon.

Ethan Smith (‘14) and Carolyn Baxter on October 20, 2017. Ethan is a technical professional at Wood Group Mustang in Greenville, S.C.

Teresa Smith (‘14) and Michael Nasrallah on April 8, 2017. Teresa is an engineer at Unifi in Yadkinville.

Scott Compton (‘15) and Sierra Swann on April 15, 2018. Scott is in Pfizer’s Global Supply Rotational Development Program in Rocky Mount.

Megan Creech (‘15) and Craig Dye on July 15, 2017. Megan is an engineer at Resco Products in Greensboro.

Caiti Cremer (‘15) and Zach Fitzgerald (BUS ’16) on August 12, 2017. Caiti is a process engineer at Biogen in RTP.

Jessica Gibby (‘15) and John Sullivan on June 3, 2017. Jessica is an engineer at PPG in Shelby.

Cathy Gomes (‘15) and Brendan Michaelsen on December 2, 2017. Cathy is the founder of the startup company 700 Rivers, a luxury, ethical and sustainable fashion company in RTP.

Taylor Grassi (‘15) and Ashley Acuff on November 11, 2017. Taylor is a process engineer and assistant production manager at Harper Love in Charlotte.

Kevin Heyer (‘15) and Samantha Goodwin on July 23, 2016. Kevin is an automation engineer at RoviSys in Apex.

Reagan Howard (‘15) and Travis Tippens on November 4, 2017. Reagan is an engineer at Avid Solutions in Atlanta, Ga.

Ben Knosby (‘15) and Ashlyn Ledford on August 6, 2016. Ben is an engineer at Merck in Durham.

Patrick Leasure (‘15) and Alexis Beachum on November 4, 2017. Patrick is an engineer at International Paper in Augusta, Ga.

Salvatore Luiso (M.S. ’15) and Angela D’Orio, July 1, 2016. Salvatore is working on his Ph.D. under the guidance of Drs. Peter Fedkiw, Benham Pourdeyhimi and Rich Spontak.

Morgan Malick (‘15) and Kathryn Bush on August 12, 2017. Morgan is a process engineer at CRB Consulting in Cary.
Christina Miller ('15) and Jeremy Ricks on April 21, 2018. Christina is a manufacturing scientist at Pfizer in Sanford.

Logan Nguyen ('15) and Nguyen Thien Nhu on January 8, 2018. Logan is a validation engineer at Ofni Systems in Raleigh.

Chase Pfendler ('15) and Kristie Buchanan on October 8, 2016. Chase is an engineer at Celanese Chemical in Narrows, Va.

Seth Pierce ('15) and Cameron Coughlin on September 4, 2016. Seth is a process development associate at Regeneron Pharmaceuticals in Charlotte.

Amy Allen ('15) and Alex Pomeroy ('15) on February 10, 2018. Amy is a graduate student in bioinformatics and computational biology at UNC-Chapel Hill and Alex is a process development associate at KBI Biopharma in Raleigh.

Ashley Quick ('15) and John Rusnak on September 24, 2016. Ashley is an engineer at International Paper in Savannah, Ga.

Al Rashid ('15) and Nevin Masa on August 21, 2016. Al is a manufacturing lead at Biogen in RTP.

Erik Rehm ('15) and Kristen Anderson on November 5, 2016. Erik is an engineer at Novo Nordisk in Clayton.

Austin Rose ('15) and Leanne Stoltzfus on July 9, 2016. Austin is an engineer at BestCo in Mooresville.

Jared Saintsing ('15) and Meredith Norris on September 20, 2015. Jared is an engineer at Evergreen Paper in Canton.

Beth Shively ('15) and David Oliveros on October 3, 2015. Beth is a sales engineer for Elasto Proxy Inc. in Montreal, Canada.

Donald Smart ('15) and Paige Kennedy on May 28, 2016. Donald is a process engineer at Seqirus in Holly Springs.

Ethan Smith ('15) and Sarah Snow on May 28, 2016. Ethan is a Ph.D. student in chemical engineering at Virginia Tech in Blacksburg, Va.

Mick Williams ('15) and Elizabeth Schlieper on October 29, 2016. Mick is a Ph.D. student in chemical engineering at Virginia Tech in Blacksburg, Va.

Kimberly Abrams ('16) and Alan DeOre on October 7, 2017.

Mitchell Ballinger ('16) and Heather Cash on May 4, 2017. Mitchell is a data analyst with Credit Suisse in Durham.

Matthew Carlson ('16) and Wilson Story on June 18, 2016. Matthew is an engineer at Highland Industries in Kernersville.

Christianna Carter ('16) and Tim Neal on April 28, 2018. Christianna is a software implementation specialist at AppTio in Cary.

Andrew Chatelaine ('16) and Rachel Coffman on July 15, 2017. Andrew is an engineer at International Paper in Riegelwood.

Dana Dale ('16) and Bill Hollon on October 28, 2017. Dana is an engineer at International Paper in Augusta, Ga.

Kristen Goodman ('16) and Daniel Southard on May 19, 2018. Kristen is a manufacturing scientist at Biogen in RTP.

Rohail Hada ('16) and Marina Rafiq on August 13, 2016. Rohail is an area sales representative at Buckman in Charlotte.

Will Holland ('16) and Micah Khater on October 9, 2015. Will is a co-founder of Compa in New Haven, Conn.

Dylan Jaramillo ('16) and Brianna Henson on April 29, 2017. Dylan is an engineer at Proctor & Gamble in Greensboro.

Grant Krueger ('16) and Abigail Wood on July 9, 2017. Grant is an engineer at Storaenso in Danville, Va.

Lauren Lee ('16) and Josh Mitchell on October 7, 2017. Lauren is an engineer at CESCO in Charlotte.

Emily McGuinness ('16) and Ronald Smith on July 1, 2017. Emily is a Ph.D. student in materials science and engineering at the Georgia Institute of Technology in Atlanta, Ga.
Marriages (continued)

Lauren Moody (‘16) and Michael Glander on October 7, 2017. Lauren is an engineer at Nestle Purina in Bloomfield, Mo.

Bobby Oglesby (‘16) and Brianne Perry on July 22, 2017. Bobby is an engineer at WestRock in West Point, Va.

Thomas Parker (‘16) and Bekah Charlier on July 2, 2016. Thomas is a process development specialist at EMD Millipore in Raleigh.

Joshua Pippin (‘16) and Jasmyn Rae on July 15, 2017. Joshua is an engineer at Westrock in Winston-Salem.

Sam Porter (‘16) and Ashley Turner on July 22, 2017. Sam is a systems engineer at RoviSys in Apex.

Emily Price (‘16) and Thomas Powell on May 21, 2016. Emily is an engineer at Eastman Chemical Company in Kingsport, Tenn.

Alex Spach (‘16) and Hannah Chandler on June 5, 2016. Alex is a nuclear engineer at NAVSEA in Portsmouth, Va.

Stephanie Smith (‘16) and Eric Hayes on September 30, 2017. Stephanie is an industrial process specialist at Medicago in Durham.

Andrew Steffan (‘16) and Jackie Tierney on August 12, 2017. Andrew is a process engineer at Eastman Chemical Company in Kingsport, Tenn.

Connor Thompson (‘16) and Lindsey Kurtz on August 5, 2017. Connor is an engineer at Pfizer in Sanford.

Nick Weidle (‘16) and Kristine Huynh on October 8, 2016. Nick is a project engineer at Sequence in Raleigh.

Christopher Westerbeck (‘16) and Rachel Norris on June 10, 2017. Christopher is an engineer at WestRock in Dublin, Ga.

Dylan Wright (‘16) and Hannah Jenkins on June 3, 2017. Dylan is an engineer at the City of Asheboro’s wastewater treatment plant in Asheboro.

Colden Beert (‘17) and Paige Esguerra on March 3, 2018. Colden is an engineer at Revlon in Oxford.

Shanthan Citineni (‘17) and Sneha Korukanti on March 4, 2018. Shanthan is employed at the NC State Employees Credit Union in Raleigh.

Cody Garaas (‘17) and Kenzie McLean on May 27, 2017. Cody is an engineer at Bostik in Middleton, Mass.

Cameron Hartley (‘17) and Krysta Wagner on May 18, 2018. Cameron is a REACH engineer at International Paper in Savannah, Ga.

Clayton Sapp (‘17) and Jessie Rinker on May 19, 2018. Clayton is a production supervisor with the Kraft Heinz Company in Lowville, N.Y.

Jeff Wiltgen (‘17) and Alix Robbins on November 18, 2017. Jeff is a validation engineer with Commissioning Agents in Raleigh.

Births

Emily Martin (‘99) and her husband, Kurt, announce the birth of a son, Luther Levi Martin, on December 22, 2017. Emily is a global supply chain executive with GE Hitachi in Wilmington.

Christine Lin Johnson (‘01) and her husband, Laurance, announce the birth of a son, Leoden Sylvan Johnson, on September 6, 2017. Christine is a physician at Providence Cancer Center in Portland, Ore.

April Morris Kloxin (‘01, M.S. ‘04) and Chris Kloxin (Ph.D. ‘06) announce the birth of a son, Luke James Kloxin, on April 29, 2016. April and Chris are assistant professors in the Department of Chemical Engineering at the University of Delaware.

Mark Laney (‘01) and his wife, Amanda, announce the birth of a son, Parker William Laney, on February 16, 2016. Mark is the director
of customer solutions at Merge Healthcare in Raleigh.

**Neal Robbins** (’01) and his wife, Beth, announce the birth of a son, James McKinley Robbins, on September 6, 2015. Neal is publisher of the North State Journal and an attorney with Nexsen Pruet.

**James Wright** (’01) and his wife, Jaclyn, announce the birth of a daughter, Scarlett Belle Wright, on July 9, 2015. James is a principal global engineer at Biogen in RTP.

**Kevin Anderson** (’02) and his wife, Kellie, announce the birth of a daughter, Taylor Victoria Anderson, on January 7, 2017. Kevin is the director for global strategic marketing for BASF in Mannheim, Germany.

**Jenny Brown-Chin** (’02) and her husband, Justin, announce the birth of a daughter, Megan Amelia Chin, on October 25, 2016. Jenny is an adjunct faculty member at Meredith College.

**Tomas Carbonell** (’02) and his wife, Caitlin Boon, announce the birth of a son, Javier Elias Carbonell-Boon on August 16, 2016. Tomas is an associate at Van Ness Feldman law firm in Washington, D.C.

**Billie-Jean Savage Ferguson** (’02) and her husband, Avery Rose Ferguson, on April 12, 2016. Billie-Jean is a strategic account manager at Novozymes in Franklinton.

**Mike Foote** (’02) and **Katie Wright Foote** (’03) announce the birth of a son, William Michael Foote, on May 7, 2016. Mike is an engineering manager at AkzoNobel in Salisbury, and Katie is a process engineer at LCI Corporation in Charlotte.

**Everett Minga** (’02) and his wife, Maria Warille, announce the birth of a son, Minga Kamandala Minga, on June 7, 2016. Everett is an operations & development manager II at Oil and Gas Kenya in Nairobi, Kenya.

**Kim Goodwin Roberts** (’02) and her husband, Brad, announce the birth of their daughters, Austen Hope Roberts on July 7, 2015 and Lera Faye Roberts on February 1, 2018. Kim is the director of recruiting, enrollment management & educational partnerships in the College of Engineering at NC State and is the chapter advisor of NC State’s AIChE student chapter.

**Valerie Tse** (’02) and her husband, Ben Chou, announce the birth of a son, Alexander Xian-Feng Chou, on July 14, 2017. Valerie is an engineer at ExxonMobil in Los Angeles, Calif.

**Rob Ashcraft** (’03) and **Amanda Burris Ashcraft** (’04) announce the birth of a daughter, Isabelle Evelyn Ashcraft, on April 8, 2017. Rob is a staff engineer/manager in the open innovation group at Samsung Research America, and Amanda is associate director of purification and analytical operations at Sanofi-Genzyme in the Boston, Mass. area.

**Steven Clark** (’03) and his wife, Lindsey, announce the birth of a son, William Steven Clark, on January 26, 2016 and a daughter, Macie Evelyn Clark, on June 13, 2018. Steven is an operations manager at Eastman Chemical Company in St. Louis, Mo.

**Garett Franklin** (’03) and his wife, Linsi, announce the birth of a daughter, Adaline Grace Franklin, on August 2, 2017. Garrett is a sports medicine physician at Raleigh Medical Associates in Cary.

**Karen Lu-Hunter** (’03) and her husband, Tyler, announce the birth of a son, Wyatt Nolan Hunter, on February 4, 2017. Karen is a senior quality engineer at Abbott in Columbus, Ohio.

**Orisa Bentick Mathieu** (’03) and her husband, Paul, announce the birth of a daughter, Phinelie Zephaniah Mathieu, on March 4, 2016. Orisa is a staff engineer at Merck in Durham.

**Vann Pearce** (’03) and his wife, Emily, announce the birth of a daughter, Annabelle Lindsey Pearce, on August 24, 2015. Vann is a law partner at Orrick, Herrington & Sutcliffe in Arlington, Va.

**Sara St. Vincent** (’03) and her husband, Crane Sorensen, announce the birth of a daughter, Briar Evelyn Sorenson, on April 13, 2017. Sara is solvents supply manager at Shell Chemical Company and executive director of the nonprofit organization Catapult in Houston, Texas.

**Mara Ondeck Bishop** (’04) and her husband, Brandon, announce the birth of twins, daughter Evva Taylor Bishop and son Reed Hartig Bishop, on January 13, 2014. Mara is North American sales group manager at Kordsa Global in Chattanooga, Tenn.
Births (continued)

Cliff Bynum (’04) and his wife, Jenna, announce the birth of a son, John William Bynum, on June 22, 2016. Cliff is a development manager at Milliken Chemicals in Greenville, S.C.

Andrea Allgood Carter (’04) and her husband, Jay, announce the birth of a daughter, Maya Florence Carter, on April 29, 2017. Andrea is an assistant professor of chemistry at Meredith College in Raleigh.

Eston Herring (’04) and his wife, Katie, announce the birth of a daughter, Ruby Kate Herring, on October 7, 2017. Eston is the superintendent for chemical operations at PotashCorp in Aurora.

Wes Hudson (’04) and his wife, Mingchun, announce the birth of a son, Zachary Alexander Hudson, on September 2, 2016. Wes is a project manager for Dominion Resources in Richmond, Va.

Matt Kain (’04) and his wife, Sarah, announce the birth of a son, Andrew Robert Kain, on August 7, 2017. Matt is an attorney at Moore & Van Allen in Charlotte.

Lauren Killough Kirkpatrick (’04) and her husband, Garin, announce the birth of a son, Connor Cidny Kirkpatrick, on May 10, 2016.

Joseph Skipper (’04) and his wife, Stephanie, announce the birth of a son, Brody Andrew Skipper, on May 30, 2018. Joseph is an engineer at Cormetech in Lumberton.

Bryan Tracy (’04) and his wife, Melissa, announce the birth of a daughter, Deirdre Oona Tracy, on March 5, 2015 and a son, Gabriel Patrick Tracy, on March 9, 2017. Bryan is the CEO and co-founder of White Dog Labs, Inc. in Wilmington, Del.

Shelly Heath Helms (’05) and her husband, Matt, announce the birth of a son, Branson Isaiah Helms, on November 20, 2015. Shelly enjoys home schooling their two older sons, Grayson and Harrison.

Cindy Hendren (’05) and her husband, Nathan Miller, announce the birth of a son, Charles David Miller, on December 22, 2016. Cindy is a manager of manufacturing excellence at International Paper in Prattville, AL.

Jonathan Leerkes (’05) and his wife, Jennifer, announce the birth of twins, son Hendrik and daughter Wilhelmina, on February 15, 2016. Jonathan is a manager at ITG Brands, LLC in Greensboro.

Jeff Millman (’05) and his wife, Lily, announce the birth of a daughter, Charlotte Jeng Millman, on December 7, 2016. Jeff is an assistant professor in the Division of Endocrinology, Metabolism and Lipid Research at the Washington University School of Medicine in St. Louis, Mo.

Allison Wagner Schiller (’05) and her husband, Doug, announce the birth of a son, Cameron Everett Schiller, on March 14, 2018. Allison is an emergency medicine specialist in Winterville and a clinical assistant professor in the Department of Emergency Medicine at ECU.

Mackenzie Short (’05) and her husband, Chris End, announce the birth of a daughter, Madeleine Lee End, on November 30, 2015. Mackenzie is a pediatrician at Cone Health in Greensboro.

Ashley Amstutz Weber (’05) and her husband, Kevin announce the birth of a son, Dean Patrick Weber, on February 27, 2016. Ashley is a territory business manager at Zoetis in Stamford, Conn.

Rebecca Robertson Williams (’05) and her husband, Anthony, announce the birth of a son, Marshall Lee Williams, on July 4, 2015 and a daughter, Caroline Elizabeth Williams, on June 28, 2017. Rebecca teaches chemistry at Nash Community College in Rocky Mount.

Robbie Williams (’05) and his wife, Jessica, announce the birth of a son, Dakota Zachary Williams, on March 27, 2018. Robbie is a process engineer at Hospira in Rocky Mount.

Sara Welter Abbe (’06) and her husband, Joshua, announce the birth of a daughter, Rose Marie Abbe, on October 8, 2016. Sara is a process engineer at BWXT in Lynchburg, Va.

Jessica Willems Creech (’06) and her husband, Aaron, announce the birth of a son, Everett Porter Creech, on June 11, 2017. Jessica is a pharmacist at Wake Forest Drug in Wake Forest.

Mary Andrews Hamrick (’06) and her husband, Geoff (ME ’07), announce the birth of a son, Lucas Andrew Hamrick, on July 25, 2017. Mary is a stay-at-home mom to her three handsome boys.
Brett Howell ('06) and his wife, Michele, announce the birth of a daughter, Morgan Elise Howell, on September 8, 2016. Brett is the CEO of DILIsym Services, Inc. in RTP.

Sabil Huda ('06) and his wife, Afnan, announce the birth of a son, Sarhan Huda, on October 26, 2016. Sarhan is an engineer at ASML in Albany, N.Y.

Katherine Watlington Johnson ('06) and her husband, Kendall, announce the birth of a son, Hugo James Murfree Johnson, on May 23, 2017. Katherine is an associate at Latham and Watkins in Singapore.

Robby Moorefield ('06) and his wife, Ann, announce the birth of a son, Daniel Thomas Moorefield, on June 3, 2015. Robby is a plant manager at CJB Industries in Valdosta, Ga.

Jennifer Filipowski Rasnake ('06) and her husband, Jason, announce the birth of a daughter, Quinn Emerson Rasnake, on May 25, 2017. Jenn is the owner/travel agent with Take 5 Worldwide LLC in Boiling Springs, S.C.

Erin Bass Stradley ('06) and her husband, Dylan, announce the birth of a son, Grayson Lee Stradley, on November 25, 2015 and the birth of a son, Cillian Arend Stradley, on October 24, 2017. Erin is a product engineer at Cree Inc. in Durham.

Reid Todd ('06) and his wife, Brittany, announce the birth of a son, Roy Foster Todd, on July 31, 2015. Reid is a process engineer at O’Brien & Gere in Winston-Salem.

Trent Watts ('06) and his wife, Andrea, announce the birth of a son, Waylan Joel Watts, on June 26, 2018. Trent is an engineer at Corning Inc. in Wilmington.

Julian Willoughby ('06) and his wife, Tara, announce the birth of a son, Lincoln David Willoughby, on September 5, 2017. Julian is a physician at Carolinas Healthcare System in Charlotte.

Corey Allen ('07) and his wife, Jenny, announce the birth of a son, Zachary Yongxing Allen, on October 31, 2016. Corey is a technology and innovation manager at ExxonMobil in Houston, Texas.

Linda Bruner Armitage ('07) and her husband, Adam, announce the birth of a daughter, Emma Charlotte Armitage, on July 25, 2015. Linda is an engineer at Arkema, Inc. in Cary.

Daniel Chamblee ('07) and his wife, Ashton, announce the birth of a son, Austin Mitchell Chamblee, on March 28, 2016. Daniel is a vice president and business control manager at Bank of America in Charlotte.

Kendall Foster ('07) and his wife, Tacy, announce the birth of a daughter, Adalyn Jean Foster, on March 11, 2017. Kendall is senior director and site head at Stallergenes Greer in Hickory.

George Ghally ('07) and his wife, Maureen, announce the birth of a daughter, Amelia Marie Ghally, on November 9, 2017. George is an engineer at Duke Energy in Charlotte.

Renee Nobles Gregory ('07) and her husband, Machon (CSC '03), announce the birth of a son, Solomon Henry Gregory, on December 15, 2014 and a daughter, Lillian Grace Gregory, on December 11, 2016. Renee is a stay-at-home mom in Silver Springs, Md.

Jeremy Haddock ('07) and his wife, Anne, announce the birth of a son, Benjamin Shepherd Haddock, on July 2, 2016. Jeremy is a process control engineer at International Paper in Leland.

Justin Harris ('07) and his wife, Liz, announce the birth of a son, Jack Thomas Harris, on June 24, 2017. Justin is a lead research scientist at NanoHybrids in Austin, Texas.

Anthony Howard ('07) and his wife, Sarah, announce the birth of a son, Ethan Charles Howard, on February 7, 2017. Anthony is a process engineer at CRB Consulting Engineers in San Ramon, Calif.
Katie Kennedy Hullet (’07) and her husband, Darren, announce the birth of a son, Jackson Myles Hullet, on February 6, 2017. Katie is engineer at ExxonMobil in Alice Springs, Australia.

Zeke Johnston (’07) and his wife, Kat, announce the birth of a son, Sawyer, Kent Johnston, on July 5, 2016. Zeke is a manager of external manufacturing at AMAG Pharmaceuticals in Lexington, Mass.

Thomas Medlin (’07) and his wife, Edith, welcome Aiden Ray Medlin, Vanessa Isabella Medlin and Jocelyn Elizabeth Medlin into their family by adoption in May 2018. Thomas is the TFPP team lead at Syngenta in Greensboro.

Erik Santiso (Ph.D. ’07) and his wife, Anna Andrzejewska-Santiso, announce the birth of a daughter, Alice Victoria Santiso, on January 11, 2017. Erik is an assistant professor in our department.

Thomas Sinodis (’07) and his wife, Blair, announce the birth of a daughter, Gretchen Virginia Stout, on March 8, 2017. Peter is the director of validation and compliance at Whitley Logistics in RTP.

Kyle Watts (’07) and his wife, Elizabeth, announce the birth of a son, David Luke Watts, on February 8, 2018. Kyle is a process engineer at Jedson Engineering in Raleigh.

Kathy Fraley Weiger (’07) and her husband, Michael Weiger (Ph.D. ’08), announce the birth of a daughter, Jane Gwyneth Weiger, on November 24, 2017. Kathy is a specialties and process services technical second line supervisor at ExxonMobil in Houston, Texas and Michael is an instructor at the MD Anderson Cancer Center, also in Houston, Texas.

Michael Akerman (’08) and his wife, Jessie, announce the birth of a daughter, Eloise June Akerman, on January 18, 2017. Michael is a senior research associate at Novozymes in Franklinton.

Seth Carter (’08) and his wife, Sara, announce the birth of a daughter, Selia Grace Carter, on August 14, 2015 and a second daughter, Lydia Hope Carter, on May 14, 2018. Seth is an engineer at Procter & Gamble in Baton Rouge, La.

Heather Ruby Crews (’08) and Robert Crews (’08) announce the birth of a son, Robert Winston Crews III, on October 21, 2017. Heather and Robert both work as engineers at Merck in Durham.

Christie Reynolds DeVane (’08) and her husband, David, announce the birth of a son, Colton Kroy DeVane, on December 6, 2017. Christie is a system engineer at Duke Energy in Southport.

Eric Hodgden (’08) and his wife, Kelly, announce the birth of a son, James Gilford Hodgden, on September 4, 2017. Eric is the owner and DJ at All Around Raleigh DJ Company in Raleigh.

Taylor Kirkland (’08) and his wife, Megan, announce the birth of a son, Waylon Thomas Kirkland, on April 12, 2017. Taylor is the integrated business planning lead at Albemarle Corporation in Charlotte.

Taylor Loftis (’08) and his wife, Maureen, announce the birth of a daughter, Florence Lydia Loftis, on February 15, 2018. Taylor is a senior consultant with Trinity Consultants in Charlotte.

Wran Metzler (’08) and his wife, Marnie, announce the birth of a son, Ryan Isaac Metzler, on April 21, 2018. Wran is a process engineer at 3A Composites in Iron Station.

Dmitri Moundous (’08) and his wife, Virginia, announce the birth of a daughter, Maya Rae Moundous, on December 3, 2018. Dmitri is an engineer at Black & Veatch in Cary.

Danielle Zimmerman Nelms (’08) and her husband, Jonathan, announce the birth of a son, Brantley Wade Nelms, on January 1, 2016 and a daughter, Carly Jane Nelms, on June 22, 2018. Danielle is a validation engineer at Hospira in Rocky Mount.
Michael Perkins (’08) and his wife, Emily, announce the birth of a son, Andrew Kent Perkins, on November 21, 2015 and a daughter, Julia Perkins, on January 6, 2018. Michael is a process engineer at Biogen in RTP.

Liam Royce (’08) and his wife, Gwen, announce the birth of a son, Finn Hy Royce, on September 26, 2014 and second son, Cale Hui Royce, on November 29, 2016. Liam is a patent examiner for the U.S. Patent and Trademark Office, and works from a home office in Raleigh.

Chris (Topher) Smith (’08) and his wife, Marcia, announce the birth of a son, Nathaniel Luke Smith, on November 16, 2016. Topher is an engineer at Mustang Engineering in Houston, Texas.

Rachel Babson Steffen (’08) and her husband, Sam, announce the birth of a son, Cooper Boone Steffan, on June 15, 2018. Rachel is an engineer at ExxonMobil in Beaumont, Texas.

Sid Subramanian (’08) and his wife, Tanisha, announce the birth of a daughter, Jiya Palvia Subramanian, on December 23, 2017. Sid is at JPMorgan Chase in New York City.

Akin Wale (’08) and his wife, Toma, announce the birth of a daughter, Grace Tamilore Omotokovie on July 4, 2015 and a daughter Celeste Omotokovie on September 15, 2017. Akin is an engineer at ExxonMobil in Houston, TX.

Abby Lithgo Willis (’08) and her husband, Meade, announce the birth of a daughter, Lucy Mae Willis, on July 27, 2016. Abby is an integrated work systems leader at P&G in Greensboro.

William Barnes (’09) and his wife, Ashley, announce the birth of a son, Beckett Barnes, on May 28, 2017. William is an engineer with ExxonMobil in Houston, Texas.

Meagan Stewart Browett (’09) and her husband, Oliver, announce the birth of a son, Sterling William Browett, on February 7, 2017. Meagan earned a certificate in Feldenkrais (mind-body education) in Pune, Maharashtra, India.

Susan Short Buenaventura (’09) and her husband Patrick Buenaventura (’11) announce the birth of a daughter, McKenna Alicia Buenaventura, on June 26, 2018. Susan is a pulp mill technical assistant and Patrick is an operations maintenance coordinator at International Paper in Pine Hill, AL.

Catherine Currence Conner (’09) and her husband, Travis, announce the birth of a daughter, Zoe James Conner, on November 14, 2016. Catherine is a stay-at-home mom enjoying her three daughters.

Dacie Edwards (’09) and her husband, Jess, announce the birth of a daughter, Leah Rose Edwards, on August 24, 2016. Dacie is a project engineer at Patheon in Greenville.

Kathryn Earley Holland (’09) and her husband, Bryan, announce the birth of a son, Bostic Griffin Holland, on February 22, 2017. Kathryn is a manufacturing supervisor at Baxter Healthcare in Rutherfordton.

Owen Jacobs (’09) and his wife, Michelle, announce the birth of a son, Wesley George Jacobs, on June 30, 2017. Owen is a senior process design engineer at ExxonMobil in Joliet, IL.

Tabatha Penny (’09) and her husband, Christopher, announce the birth of a son, Oliver Charles Penny, on September 11, 2015. Tabatha is a patent examiner at the U.S. Patent and Trademark Office and works from a home office in Greensboro.

Elizabeth Nieman Redfern (’09) and her husband, Andrew, announce the birth of a daughter, Madeline Elizabeth Redfern, on February 19, 2016 and the birth of a son, Nash Edward Redfern, on July 21, 2017. Elizabeth is an engineer at Merck in Durham.

Garrett Swindlehurst (’09) and his wife, Anna, announce the birth of a son, Maxwell Clark Swindlehurst, on May 10, 2018. Garrett is a development specialist at Praxair in Buffalo, N.Y.

Trent Tovar (’09) and his wife, Anne, announce the birth of a son, Elliot Tovar, in July 2015.

Tim Wuthenow (’09) and his wife, Jess, announce the birth of twin daughters, Ruby...
Births (continued)

Wuthenow and Adalind Rose Wuthenow, on January 10, 2017. Tim is an IT specialist at IBM in Raleigh.

Peiwen Thor Whysall (’09) and her husband, Larry, announce the birth of a son, Arthur Kaiyi Whysall, on November 13, 2017. Peiwen is an engineer at GE in Wilmington.

Ryan Abernathy (’10) and his wife, Elizabeth, announce the birth of a daughter, Avery Lucille Abernathy, on May 8, 2018. Ryan is the director of operations at CoaLogix in Charlotte.

Autumn Place Bixler (’10) and her husband, Bryce, announce the birth of a son, Sullivan Lawrence Bixler, on October 10, 2017.

Jodi Ellis (’10) and her husband, Aaron, announce the birth of a daughter, Zoe Olivia Ellis, on July 8, 2015. Jodi is a senior project manager at Flatrock Engineering and Environmental in Victoria, Texas.

Christian Estes (’10) and his wife, Sarah, announce the birth of a son, Lukas Nathanael Estes, on April 4, 2017. Christian is a process engineer at Integrated Project Services in Morrisville.

Kyle Ford (’10) and his wife, Michelle, announce the birth of a daughter, Anna Kate Hunt, on April 19, 2017. Alex is a production superintendent at Potash Corporation in Aurora.

Nick King (’10) and his wife, Vanessa, announce the birth of a daughter, Natalie Anna King, on November 21, 2015 and a son, Alexander King, on March 27, 2016. Nick is an engineer at Procter & Gamble in Cincinnati, Ohio.

Daniel Lawson (’10) and his wife, Meg, announce the birth of a son, William Parker Lawson, on September 16, 2016. Daniel is a process engineer at Kimberly Clark in Graniteville, S.C.

Alex Majeska (’10) and his wife, Amanda, announce the birth of a son, Gideon Thomas Majeska, on November 12, 2015 and a daughter, Kennedy Anne Majeska, on October 26, 2017. Alex is a manufacturing process engineer at Becton Dickenson in Durham.

Andy Martin (’10) and his wife, Courtney, announce the birth of two daughters, Emma Grace Martin on August 24, 2015 and Annabelle James Martin on September 30, 2017. Andy is a front line leader at International Paper in Franklin, Va.

Zach McDowell (’10) and his wife, Ame, announce the birth of two daughters, Sadie Dare McDowell on August 23, 2015 and Evelyn Paige McDowell on January 17, 2017. Zach is an engineer at Merck in Durham.

Adam Melvin (Ph.D. ’10) and Liz Melvin (Ph.D. ’12) announce the birth of a son, Zachary Theodore Melvin, on January 12, 2017. Adam is an assistant professor of chemical engineering at Louisiana State University, and Liz is the director of academic affairs for the College of Engineering at Louisiana State University.

Jordan Jernigan Russell (’10) and her husband, Andy, announce the birth of a daughter, McKayla Rose Scott, on May 6, 2018. Amanda is an innovation project manager at Henkel in East Granby, Conn.

Amanda Vorenkamp Scott (’10) and her husband, Andy, announce the birth of a daughter, McKayla Rose Scott, on May 6, 2018. Amanda is an innovation project manager at Henkel in East Granby, Conn.

Cynthia Warren Sorrell (’10) and her husband, Christopher, announce the birth of a daughter, Samantha Renee Sorrell, on July 27, 2017. Cynthia is an engineer at Merck in Durham.

Natalie Soto (’10) and her husband announce the birth of a son, Mason Oliver Soto, on April 25, 2017.

Emma Sebeey Achu (’11) and her husband, Fongong, announce the birth of a daughter, Formo Fri Achu, on September 16, 2015 and a son, Mark Sebeey Mofor Achu, on August 13, 2017. Emma is the CEO and founder of F&E Real Estate Services in Columbia, S.C.

Jennifer Gowen Biggs (’11) and her husband, Mason, announce the birth of a son, Richard Mason (Tripp) Biggs III, on September 19, 2017. Jennifer is director of customer success at Ampogee in Greensboro.
Andrew Boggs ('11) and his wife, Kiley, announce the birth of a daughter, Hallie Morgan Boggs, on June 5, 2016. Andrew is an engineer at RoviSys in Apex.

Patrick Buenaventura ('11) and his wife, Susan Short Buenaventura ('09), announce the birth of a daughter, McKenna Alicia Buenaventura, on June 26, 2018. Patrick is an operations maintenance coordinator, and Susan is a pulp mill technical assistant at International Paper in Pine Hill, AL.

Robert Deedrick ('11) and his wife, Erin Catzen, announce the birth of a son, Penn Gamble Deedrick on June 6, 2018. Robert is a process engineer at Corning Cable Systems in Hickory.

Steven Doligalski ('11) and his wife, Meghan, announce the birth of a son, Owen Coats Doligalski, on September 4, 2016. Steven is a process engineer at CRB Consulting Engineers in Cary.

Sam Fipps ('11) and his wife, Cassie, announce the birth of a son, Everett Isaac Fipps, on March 15, 2018. Sam is a shift supervisor at Arizona Chemical in Savannah, Ga.

Mary Knox Dickson Henkes ('11) and her husband, Ryan, announce the birth of a son, William Hunter Henkes, on July 14, 2015 and a daughter, Lillian Kate Henkes, on April 19, 2017. Mary is a process engineer at Jacobs Engineering in Cary.

Matt Hunsucker ('11) and his wife, Rachel, announce the birth of a daughter, Eleanor Grace Hunsucker, on August 16, 2017. Matt is a physician at UNC Hospitals in Chapel Hill.

Matt Lemieux ('11) and his wife, Jessica, announce the birth of a daughter, Kimberly Rose Lemieux, on October 1, 2015. Matt is a graduate student in chemical engineering at the University of Utah in Salt Lake City, Utah.

Kevin Miller ('11) and his wife, Hannah, announce the birth of a daughter, Ava Marie Miller, on May 9, 2018. Kevin is a process engineer at CB&I in Baton Rouge, La.

Tim Moore ('11) and his wife, Meredith, announce the birth of a son, Reid Henry Moore, on September 10, 2016. Tim is a Ph.D. student in chemical engineering at Vanderbilt University in Nashville, Tenn.

Emma Klaus Pearsall ('11) and her husband, Stephen, announce the birth of a son, John Herman Pearsall, on December 9, 2015 and a son, Nicholas Stephen Pearsall, on November 18, 2017. Emma is a project development engineer at Academy Energy Group in Dallas, Texas.

Richard Pridgen ('11) and his wife, Megan Loughran, announce the birth of a daughter, Róisín Frances Pridgen, on May 4, 2018. Richard is an advanced manufacturing engineer at BorgWarner Inc. in Bellwood, Ill.

Brandon Shannonhouse ('11) and his wife, Leah, announce the birth of a son, Max Parker Shannonhouse, on September 20, 2017. Brandon is an associate manager at Ajinomoto North America in Raleigh.

Ben Bayless ('12) and his wife, Taylor, announce the birth of a daughter, Charlie Grace Bayless, on November 17, 2015 and the birth of another daughter, Andie Mae Bayless, on June 7, 2018. Ben is an engineer at Corning in Wilmington.

Ben Bell ('12) and his wife, Allee, announce the birth of a son, Benson Philip Bell, on February 9, 2017. Ben is quality control manager at Lumite Inc. in Gainesville, Ga.

Amanda Mercer Bernadina ('12) and her husband, Jon, announce the birth of a daughter, Hazel Marie Bernadine, on February 15, 2018. Amanda is a senior chemist at Recipharm in Wake Forest.

Dominic Brown ('12) and his wife, Katherine, announce the birth of a daughter, Elise Madeline Brown, on July 28, 2015. Dominic is a global bromine product manager with Albemarle Corporation in Charlotte.

Brenton Daino ('12) and his wife, Casey Helms, announce the birth of a son, Parker Lee Daino, on April 27, 2017. Brenton is an automation engineer at NNE Pharmaplan in Morrisville.

David Froggatt ('12) and his wife, Monica, announce the birth of a daughter, Layla Claire Froggatt, on March 13, 2016. David is a production maintenance coordinator at International Paper in Wilmington.

Andrea Gill Green ('12) and her husband, Matt, announce the birth of a son, Mason Krugh
Green, on January 1, 2018. Andrea is a process engineer at Novozymes in Franklinton.

**Ryan Hart** (’12) and his wife, Denyelle, announce the birth of a daughter, Devin Lily Hart, on June 7, 2017. Ryan is a quality engineer with GE Aviation in Newark, Del.

**Greg Hollis** (’12) and his wife, Katie, announce the birth of a daughter, Poppy Evelyn Hollis, on April 9, 2018. Greg is an engineer at Verso Paper in Luke, Md.

**Neil Kern** (’12) and his wife, Maggie, announce the birth of a son, Lincoln Taylor Kern, on March 26, 2017. Neil is an engineer with Progress Energy in Charlotte.

**Kate Leonik Shinkwin** (’12) and her husband, Matthew, announce the birth of a son, Jameson Matthew Shinkwin, on February 10, 2017. Kate is a real estate broker at Berkshire Hathaway near Southern Pines.

**Sarah McGee** (’12) and her husband, Kacey, announce the birth of a son, Charlie McGee, on October 3, 2015 and the birth of a son, Theodore McGee, on May 3, 2018.

**Andrew Mills** (’12) his wife, Emily, announce the birth of a son, Andrew David Mills, on December 7, 2017. Andrew is a validation technician II at BD Rx in Wilson.

**Evan Parrish** (’12) and his wife, Maria, announce the birth of a daughter, Ana Lucia Parrish-Vazquez, on August 30, 2017. Evan is an ensign in the U.S. Navy based in Charleston, S.C.

**Kimberly Williams Ross** (’12) and her husband, Tyler, announce the birth of a daughter, Annaleigh Diane Ross, on July 25, 2016. Kimberly is a process engineer at Quality Chemical Laboratories in Wilmington.

**David Shaner** (’12) and his wife, Stephanie, announce the birth of a son, Jackson Duke Shaner, on May 28, 2017. David is the founder and CEO of Offline Media in Raleigh.

**Billie Jo Bowen Shields** (’12) and her husband, Cole, announce the birth of a son, Jackson Tice Shields, on January 29, 2018. Billie Jo is a junior application engineer at Busch LLC in Virginia Beach, Va.

**Joe Slepitza** (’12) and his wife, Cade (FS ’11), announce the birth of twin boys, Alexander Thorne Slepitza and William Joseph Slepitza, on April 26, 2018. Joe is an engineer at ExxonMobil at Baytown, Texas.

**Mark Treece** (’12) and his wife, Ann, announce the birth of a son, Samuel Zachariah Treece, on January 3, 2017. Mark is a senior chemical engineer at Eastman Chemical Company in Kingsport, Tenn.

**Joseph Andolsen** (’13) and his wife, Jessica (CHEM ’11), announce the birth of a son, Borden Ray Andolsen, on January 19, 2018. Joseph is a polymer engineer at Palziv North America in Wendell.

**Eric Blake** (’13) and his wife, Cathy Robinson, announce the birth of a son, Avery James Blake, on August 3, 2017. Eric is an engineer with ExxonMobil in Baytown, Texas.

**Mick Doriani** (’13) and his wife, Natalia, announce the birth of a daughter, Charlie Victoria Doriani, on December 27, 2015. Mick is an engineer with ExxonMobil in Houston, Texas.

**Sarah Long Fatool** (’13) and her husband, Samuel, announce the birth of a son, Michael Fatool, in November 2017. Sarah is a graduate of Ben Gurian University’s medical school in Israel.

**Dale Garrison** (’13) and **Peyton Lambeth Garrison** (’14) announce the birth of a daughter, Ella Lauris Garrison, on December 28, 2016. Dale is a process engineer at Pfizer in Rocky Mount, and Peyton is an engineer at Duke Energy in Raleigh.

**Matt Gates** (’13) and his wife, Samantha, announce the birth of a daughter, Holly Ann Gates, on August 6, 2016. Matt is an asset manager at Gates Construction Company in Sherrills Ford.

**Ashley Overcash Hardee** (’13) and her husband, Tanner (ABM ’12), announce the birth of a son, Bennett Jefferson Hardee, on June 4, 2018. Ashley is an engineering specialist in technical operations at Merck in Durham.
Jamie Johnson Harford (’13) and her husband, Josh (BME ’13), announce the birth of a daughter, Julianna Harford, on April 7, 2018. Jamie is an engineer at Seqirus in Holly Springs.

Keith Keller (’13) and his wife, Amy, announce the birth of a son, Max Keller, on April 19, 2017. Keith is a glassmaking supervisor at Pilkington in Laurinburg.

Alex Lane (’13) and his wife, Alexandra, announce the birth of a son, Charles Ezra Lane, on December 7, 2015. Alex is an engineer at RoviSys in Apex.

Johnathan Roesch (’13) and his wife, Rachel, announce the birth of a daughter, Lacie Rae Roesch, on June 23, 2018. Jonathan is pulp mill superintendent at KapStone in Charleston, S.C.

Daniel Dudley (’14) and his wife, Allison, announce the birth of a son, Philip Wane Dudley, on August 15, 2016. Daniel is a systems engineer at RoviSys in Apex.

Josh Kirbo (’14) and his wife, Katie, announce the birth of a daughter, Natalie Marie Kirbo, on September 22, 2015 and a son, Benjamin Wayne Kirbo, on May 22, 2017. Josh is a process engineer at Kimberly-Clark Corporation in Beech Island, S.C.

Neil Quinn (’14) and his wife, Brittany, announce the birth of a son, Everett James Quinn, on November 27, 2015. Neil is an operations manager at Gulfstream Aerospace in Savannah, Ga.

Brandi Shaw (’14) and her husband, Jake, announce the birth of a daughter, Penelope Susan Shaw, on February 11, 2017. Brandi is a quality engineer at McMurray Fabrics Inc. in Fayetteville.

Laketa Akers (’15) and her wife, Beth, announce the birth of a daughter, Amelia Quinn Akers, on February 28, 2018. Laketa is a process engineer at Ajinomoto Aminoscience in Raleigh.

Taliman Afroz (Ph.D. ’15) and her husband, Rashed, announce the birth of a son, Ahyan Nevin Khan, on July 19, 2016. Taliman is currently a postdoctoral fellow in the University of Utah Health.
Graduate Student News

Schoenborn Graduate Student Oral Presentation Award

Our senior graduate students compete annually for the Schoenborn Award by giving an oral presentation of their work to faculty, other graduate students and guests. Dr. Edward M. Schoenborn was department head when our Ph.D. program was established. Congratulations to the Schoenborn Award recipients:

2016: Ahmed Gomaa (1st), Junjie Zhao (2nd), Steven Benner and Sophie Carrell (tie 3rd)

2017: Gilbert Castillo (1st), Jonathan Conway (2nd), Russel Mailen (3rd)

2018: David Chang (1st), Koohee Han (2nd), Dishit Parekh (3rd)

Schoenborn Graduate Student Poster Presentation Award

Our junior graduate students compete annually for the Schoenborn Poster Award.

2016: Michelle Luo (1st), Amber Hubbard (2nd), Amit Mishra (3rd)

2017: Ishan Joshipura (1st), Sabina Islam (2nd), Amber Hubbard and Dishit Parekh (tie 3rd)

2018: Bharadwaja S.T.P. (1st), Sabina Islam (2nd), Arnab Bose (3rd)

Stannett Fellow Award

The Vivian T. Stannett Fellow Award recognizes research excellence, initiative, focus and tenacity during the early career of Ph.D. candidates in the department. The award is named in memory of Professor Vivian T. Stannett, a CBE faculty member who was an internationally renowned polymer scientist, research leader and National Academy of Engineering member. The award was first presented in 2014, with the winners being announced at the Schoenborn luncheon. Congratulations to the Stannett Fellow Award recipients:

2016: Yiliang Lin (1st), Dishit Parekh (2nd)

2017: Ryan Leenay (1st), Ishan Joshipura (2nd)

2018: Dennis Lee (1st), Vasudev Haribal (2nd)

Ferrell Outstanding Ph.D. Graduate Award

The James K. Ferrell Outstanding Ph.D. Graduate Award recognizes an outstanding graduate of our Ph.D. program who distinguishes him/herself in (1) scholarship: publications, research-based honors, presentations; and (2) service: teaching/TA performance, graduate student recruiting, GSA service, mentorship of peers and undergraduate researchers. Candidates for the award are nominated by their advisor(s) and are drawn from Ph.D. graduates each calendar year. The award is named in memory of Dr. James K. Ferrell who was the first Ph.D. graduate from NC State’s chemical engineering program, a CBE faculty member, our department head from 1966 through 1980 and a 1992 College of Engineering Distinguished Engineering Alumnus Award recipient.

2017: Nathan Galinsky (advised by F. Li)

2018: Jonathan M. Conway (advised by R. Kelly)

Praxair Exceptional Teaching Assistant Award Recipients

Thanks to Praxair for their annual support of these awards.

The Praxair Exceptional Teaching Assistant Award recognizes instructional effectiveness and management skills of Ph.D. candidates who serve as exemplary teaching assistants in CHE courses. The award recipient goes above and beyond the call of duty and provides students with tireless and selfless attention to high-quality instruction and professionalism. The Praxair Exceptional Teaching Assistant Award recipient is chosen by a faculty committee from
GSA Student Chapter Officers:

Our GSA Student Chapter continues its tradition of strong leadership. Thanks to the following students for all their efforts: (listed in order of president, vice president, treasurer, secretary, social chair, webmaster and VP external, respectively)

2016-17: Ryan Dudek, Heather Barton, Matt Mansell, Kaitlyn Bacon, Dilara Sen, Taylor Neumann, Emily Facchine

Ahmed A. Mahmoud Gomaa received the first-place award in the engineering category at NC State’s 11th Annual (2016) Graduate Student Research Symposium. Ahmed received the award for his poster titled “Sequence-specific antimicrobials for treating multidrug-resistant infections.” Ahmed was advised by Dr. Chase Beisel.

Amber Hubbard received the first-place award in the engineering category at NC State’s 12th Annual (2017) Graduate Student Research Symposium. Amber’s poster was titled “Curvature of Light Responsive, Shape Memory Polymers for the Production of Biologically-Inspired, Functional Devices.” Amber was co-advised by Drs. Michael Dickey and Jan Genzer.

Anurodh Tripathi received the second-place award in the engineering category at NC State’s 13th Annual (2018) Graduate Student Research Symposium. Anurodh’s poster was titled “Recipe to synthesize aerogels with tunable properties: from design principles to application.” Anurodh is co-advised by Drs. Saad Khan and Orlando Rojas.

Gilbert Castillo, co-advised by Drs. Michael Dickey and Jan Genzer, was selected as the winner of the University’s Three-Minute Thesis competition in 2016.

Koohee Han, advised by Dr. Orlin Velev, received the third-place poster award at the 2015 local MRS/ASM/AVS Joint Symposium. Koohee’s poster was titled, “Field-Directed Assembly and Manipulation of Chains of Metallo-Dielectric Microcubes.”

Koohee Han won the third-place award in the Langmuir Oral Student Award Session at the 91st annual ACS Colloid and Surface Chemistry Symposium in New York City. In addition, Koohee also won the second-place ACS Omega Student Poster Award. Thus, he came back with both oral presentation and poster awards.

The CBE Department had two first-place winners at the Annual Triangle Student Research Competition on October 5, 2016 hosted by the Triangle student chapters of the Materials Research Society and Electrochemical Society. Amber Hubbard (advised by Dr. Michael Dickey and Jan Genzer) won first-place in the category of “Characterization of Materials” for her poster titled “Self-folding Polymers: Mimicking Natural Materials.” Anurodh Tripathi (advised by Drs. Saad Khan and Orlando Rojas) won first-place in the category of “Methods for Making New Materials” for his poster titled “Ultralight, reusable biopolymer aerogels: Formation mechanisms to applications in selective fluid sorption and oil-spill remediation.”
Undergraduate Student News

CBE Outstanding Seniors

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

**2015-16:** Emily McGuinness (Scholarly Achievement), Kristen Goodman (Leadership), T’ana Tomlinson (Citizenship & Service), Rachel Benton (Humanities)

**2016-17:** Chris Cooper (Scholarly Achievement), Pari Palizhati (Leadership), Ashle Page (Citizenship & Service), Alex Kim (Humanities)

**2017-18:** Kobi Felton (Scholarly Achievement), Rachel Scroggins (Leadership), Jacob Jacobs (Citizenship & Service), Catrina Rateb (Humanities)

AIChE Student Chapter Officers:

Our AIChE Student Chapter continues its tradition of strong leadership. Thanks to the following students for all their efforts: (listed as president, vice president of operations, vice president of finance, vice president of records, vice president of industry relations (2), respectively)

**2016-17:** Pari Palizhati, Muheyati Aershen, Rachel Scroggins, Alex Mesa, Elton Luong, Malay Shah

**2017-18:** Rachel Scroggins, Sean Engels, Bradley Schmidt, Piyanka Saha, Jayme Currie, Lucas Wylie

**2018-19:** Lucas Wylie, Elton Luong, Bradley Schmidt, Jayme Currie, Joseph Holder, Rosalynn Phan

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 for 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! 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.

**2015-16:** Kobi Felton

**2017-18:** Joseph Holder

**2016-17:** Malay Shah

Previous winners can be found on our website at: www.che.ncsu.edu/about/history/AiChEAwards.pdf.

AIChE Freshman Recognition Award

The Freshman Recognition Award is presented to the one National AIChE student member who has been the most active in their student chapter during his/her freshman year. Recent winners are:

**2015-16:** Malay Shah

**2016-17:** Joseph Holder

**2017-18:** Sydney Floryanzia

AIChE Outstanding Senior Award

The AIChE Outstanding Senior Award is presented to an active AIChE member who has the highest scholastic grade point average during their academic career at NC State:

**2015-16:** Andrew Ray

**2017-18:** Sean Engels

**2016-17:** Andrew Murphy
AIChE Student Chapter News

2015 AICHE ANNUAL STUDENT CHAPTER CONFERENCE – SALT LAKE CITY, UTAH

- Outstanding Student Chapter Award - **Kim Roberts**, advisor and **Alex Pomeroy**, president
- **Pari Palizhati** - Chevron ScaleUp Award; Essay on key process safety issues that a chemical engineer must address in the energy industry
- **Rebecca Slowkowski** - Donald F. and Mildred Topp Othmer National Scholarship Award; $1,000 award to chemical engineering students for their outstanding academic achievement and involvement in student chapter activities
- **Ryan Fox** - First-Place Poster Award (Materials Engineering and Sciences)
- **Alex Johnson** - Second-Place Poster Award (Materials Engineering and Sciences)
- **Rebecca Slotkowski** - Donald F. Othmer Sophomore Academic Excellence Award
- **Ryan Cavanagh** - Freshman Recognition Award

2016 AICHE ANNUAL STUDENT CHAPTER CONFERENCE – SAN FRANCISCO, CALIF.

- Outstanding Student Chapter Award - **Kim Roberts** and **Russ O’Dell**, advisors, and John Carter, president
- **Piyanka Saha** - Donald F. and Mildred Topp Othmer National Scholarship
- **Apoorva Thatavarty** - First-Place Poster Award (Food, Pharmaceutical and Biotechnology)
- **Malay Shah** - First-Place Poster Award (Food, Pharmaceutical and Biotechnology)
- **Sean Engles** - Second-Place Poster Award (Food, Pharmaceutical and Biotechnology)
- **Kobi Felton** - Donald F. Othmer Sophomore Academic Excellence Award
- **Malay Shah** - Freshman Recognition Award
Undergraduate Student News (continued)

2017 AICHE ANNUAL STUDENT CHAPTER CONFERENCE – MINNEAPOLIS, MINN.

- Outstanding Student Chapter Award - Kim Roberts, advisor, and Pari Palizhati, president

- Rachel Scroggins - John J. McKetta Scholarship; The McKetta Scholarship is awarded to one chemical engineering undergraduate student each year (incoming junior or senior only) who is planning a career in the chemical engineering process industries. The award consists of a certificate and $5,000 scholarship. Rachel served as president of our AIChE student chapter.

- Malay Shah - Donald F. & Mildred Topp Othmer National Scholarship; Approximately 15 scholarships are awarded annually.

- Andrew Kristof - First-Place Poster Award (Food, Pharmaceutical and Biotechnology)

- Steven Erlenbach - First-Place Poster Award (Materials Engineering and Sciences)

- Kobi Felton - Second-Place Poster Award (Materials Engineering and Sciences)

- Mohammed Omary - Second-Place Poster Award (Food, Pharmaceutical and Biotechnology)

- Elizabeth Weaver - Second-Place Poster Award (Food, Pharmaceutical and Biotechnology)

- Malay Shah - Donald F. Othmer Sophomore Academic Excellence Award

- Joseph Holder - Freshman Recognition Award

2017 SOUTHERN REGIONAL CONFERENCE – KNOXVILLE, TENN.

The NC State AIChE Student Chapter returned home from the 2017 AIChE Southern Regional Conference with a SWEEP in the poster competition.

- Malay Shah - First-Place Poster Award

- Nikki McArthur - Second-Place Poster Award

- Ethan Hicks - Third-Place Poster Award

Nearly 40 students competed in the poster session from all across the southern region, with six students being from NC State. Following the awards ceremony, the organizers congratulated the team and also suggested that our other three presenters were among the highest scorers, as well.

2018 SOUTHERN REGIONAL CONFERENCE – BATON ROUGE, LA.

- Malay Shah - Second-Place Poster Award

- Our Jeopardy team made it to the semi-finals.
The number of ChE degrees awarded by our department has set new record highs:

2015-16: 177 B.S. (115 with honors), 32 M.S., 15 Ph.D.

2016-17: 180 B.S. (117 with honors), 32 M.S., 28 Ph.D.

2017-18: 178 B.S. (117 with honors), 48 M.S., 13 Ph.D.

The 180 B.S. degrees awarded for the 2016-17 academic year is a record, with the 178 B.S. degrees awarded for 2017-18 and the 177 B.S. degrees for 2015-16 the next highest.

The 48 M.S. degrees awarded for the 2017-18 academic year is a record, surpassing the 38 M.S. degrees awarded for 2014-15.

The 28 Ph.D. degrees awarded for the 2016-17 academic year is also a record, surpassing the 21 Ph.D. degrees awarded for 2012-13. It took 16 years from when Ph.D. degrees were first awarded in 1953-54 to reach the 28 Ph.D. degrees awarded by our department in the 2016-17 academic year.

The total number of ChE degrees awarded at NC State now stands at 5,838 B.S., 862 M.S./M. ChE and 494 Ph.D. as of May 11, 2018.

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

May 6, 2016: Alan Weinberg ('63) and Kristen Goodman ('16)

May 12, 2017: Steffanie (Burt) Easter ('85) and Pari Palizhati ('17)

May 11, 2018: Elin Gabriel ('85)
University Valedictorians

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

**Fall 2015:** Matt Howey

**Spring 2016:** Katie Acken, Sam Allred, Warren Call, Christianna Carter, Cory Cregan, Trang Do, John Frady, Trevor Jensen, Alex Johnson, Kaitlyn Kramer, John Lee, Thomas Pullian, Andrew Ray, Marwan Sendi, Andy Steffan, Jeremy Whitaker

**Fall 2016:** Wil Harris, Sam Hoeferkamp, Colm Lippig, Bobby Oglesby, Jon Wright

**Spring 2017:** Elizabeth Adams, Chris Cooper, Cody Garcia, Ross Garner, Will Hoffmann, Brentley Hovey, Sam Jasper, Alex Kim, Drew Murphy, Kaitlyn Nilsen, Lauren Pasquale, Bhavana Popuri, Jack Smolarek, Ian Woodward, Mounir Zerrad

**Spring 2018:** Khalid Alghamdi, Cameron Bright, Harrison Collins, Alex Comer, John Cox, Andrew Drake, Jean Marie Dubnansky, Sumner Dudick, Michael Dunn, Sean Engels, Andrew Escobar, Kobi Felton, Farrah Haeri, Lainey Indermaur, Maggie Kramer, Andrew Kristof, Jessica Mahinthakumar, Nikki McArthur, Bennett McKinley, Bret Pienkosz, Catrina Rateb, Kraig Turner

Sam Jasper, a senior and double major in textile engineering and chemical engineering, was named an Astronaut Scholar and received a $10,000 scholarship from the Astronaut Scholarship Foundation (ASF) for the 2016-17 school year.

Christopher Cooper, an undergraduate student in the department of Chemical and Biomolecular Engineering, was named a recipient of the Barry M. Goldwater Scholarship for the 2015-16 year. The one- and two-year scholarships cover the cost of tuition, fees, books and room and board up to a maximum of $7,500 per year.

Christopher Cooper was awarded a 2017 Churchill Scholarship, which he is using to pursue a M.S. degree at University of Cambridge.

Kobi Felton was awarded at 2018 Marshall Scholarship, which he is using to pursue a M.S. degree in chemical engineering at the University of Cambridge and then a M.S. degree in nanomaterials at Imperial College London in the second year. The two-year scholarship includes university fees, cost-of-living expenses, an annual book grant, thesis grant, research and daily travel grants and fares to and from the United States. Kobi is one of only 43 recipients nationwide. He is NC State’s third Marshall Scholar. The first was also one of our CBE graduates: Tomás Carbonell (’03).

Ashle Page was selected for a Newman Civic Fellowship having been nominated by Chancellor Randy Woodson for the award. Ashle is a double major in chemical engineering and color chemistry. Her award profile can be seen at compact.org/newman-civic-fellow/ashle-page.

Sarah Alenezi, Madison Baldwin and Erin Furgason (Class of 2018) were winners of several awards at the Lulu eGames for their start-up venture, Cup’t. They were recognized first for Built on Cloud, third for Social and Environmental Impact, third for Arts Venture and also won the Audience Choice Award.
Letter of Thanks to Dr. Carol Hall

Chris Kurinec (’96) wrote the following to Dr. Carol Hall:

“I am an NC State chemical engineering graduate, and one of your former thermodynamics students. I am sure you probably don’t remember me, as you have had hundreds of students. Out of all my college professors, you were the one who has always stood out to me; you believed in me, when I was overwhelmed by mother’s terminal illness! It was the fall semester of 1994 when I took Thermodynamics I and was dealing with my mother’s health issues all semester, and she eventually passed away the weekend prior to the final exam. I will never forget speaking to you over the phone asking for an incomplete for Thermodynamics I with missing the exam, you told me, “Don’t worry about that right now and take care of your mom.” I was absolutely shocked when I received my grades and you gave me a C for the course. I continued on with Thermodynamics II the next spring and graduated in 1996 and went on to be a military officer.

I have had the opportunity to reflect on my military career as an officer who is now pondering retirement, and I have realized that none of it might have happened without your belief in me when I was struggling with believing in myself. As I said, I’m not sure if you remember me, or even if you knew that you have had that profound impact on my life and career with believing in me. For that I am very thankful.”

In Honor of Professor Keith E. Gubbins

On April 30 - May 1, 2017, the Department of Chemical and Biomolecular Engineering celebrated the career and scientific contributions of Professor Keith E. Gubbins with the Symposium on Molecular Theory and Modeling: In Honor of the 80th Birthday of Professor Keith E. Gubbins. Joined by nearly 100 of his colleagues, former students, friends and family, the event honored Gubbins with a dinner reception at the NC State Park Alumni Center on Sunday, April 30. The evening included remarks and anecdotes from several colleagues highlighting Gubbins’ scientific contributions and many connections spanning the globe over the years, as well as his love of travel and nature photography.

Continuing on May 1 with the formal symposium, visitors and guests enjoyed scientific talks that stemmed from the mentorship and research collaborations between Gubbins and colleagues and former students, as well as a poster session focusing on current student work.

The Department of Chemical and Biomolecular Engineering is proud to be the home department of such an influential educator and scientist, and wishes Professor Gubbins many more years of success.
M.S. Distance Education

The Department of Chemical and Biomolecular Engineering offers an online Master of Science degree designed to help professional engineers strengthen and build on their chemical engineering foundations. The program’s part-time, long-distance schedule offers flexibility for off-campus students to earn a master’s degree in three to five years.

In our distance program, students choose the path that fits their schedule, whether they aim to put their careers on a faster track, sharpen their skills or earn and maintain Professional Engineer (PE) licenses. Our distance education program also gives non-chemical engineering professionals the opportunity to spark a career change or gain expertise in an emerging field. No matter your background, the program helps you stay on track for your education while you stay connected to your life.

Courses in the distance education program are taught by full-time tenured and tenure-track faculty. With classes offered through a combination of video and web-based technology, students can maintain their work/life balance while still having full access to instructors via email and telephone.

Students interested in earning a master’s in engineering must first apply for admission to the program through the graduate school. Distance degree requirements are identical to those for on-campus students, and all applicants are encouraged to contact Dr. Saad Khan, khan@ncsu.edu, the director of graduate studies.

Potential students can also register for individual courses through Engineering Online, www.engineeringonline.ncsu.edu.
Graduate Chemical Engineering Bridging Course

Chemical engineering graduate programs often receive applications from students whose undergraduate degree is in chemistry, physics, biology or another engineering discipline. Often these are excellent students with undergraduate research or work experience, but their lack of chemical engineering background can present challenges in their successful acceptance to and progress in a chemical engineering graduate program. Some students are asked to take several chemical engineering undergraduate courses as prerequisites to prepare them for graduate work.

As an alternative, NC State has developed an online chemical engineering bridging course, which is a two-semester course designed to prepare students with backgrounds in chemistry, biology and other non-chemical engineering fields for graduate study in chemical engineering. Although it is not equivalent to a four-year degree in chemical engineering, the course aims to furnish students with sufficient background to successfully undertake graduate classes offered by a chemical engineering program. This course will also provide a suitable option for engineers and scientists who desire understanding of core chemical engineering concepts.

Using information technology and multimedia tools, short modules have been designed which incorporate a variety of synchronized multimedia features including text, graphics, sound, short videos and the ability to annotate presentations and examples with sketches and text. Students will be able to communicate and discuss their ideas and problems using live and archived group chat-room applications to practice working in an interactive group work environment with other students and the course instructor.

The first of two courses, Core ChE Concepts: I, was first offered in fall 2018, and the second, Core ChE Concept: II, will be offered in spring 2019 through NC State’s Engineering Online Program. If you have applicants to your graduate programs with non-chemical engineering backgrounds, or inquiries from prospective graduate students with non-chemical engineering backgrounds, please share this information with them. For additional information or to register, go to www.engineeringonline.ncsu.edu or contact Dr. Lisa Bullard at lgbullar@ncsu.edu.

C&EN Top Research of 2016 — Dr. Michael Dickey’s Liquid Metals Research

Dr. Mickey Dickey’s research group has done extensive research involving liquid metals. These materials mainly include gallium and a few of its alloys. When exposed to air, the liquid spontaneously forms a thin oxide skin that mechanically stabilizes droplets, or they can be formed into various shapes. If the material is disturbed, the skin breaks and the metal flows momentarily until the skin reforms around the liquid. One noteworthy application is in flexible, stretchable electronics for wearable and implantable devices.

Graduate students in Dickey’s research group took advantage of this unusual property to make 10-μm-wide polymer-encased wires of eGaIn, a eutectic mixture of gallium and indium that is a liquid at room temperature. Unlike ordinary wires, the wires containing eGaIn can easily be stretched, bent and shaped while maintaining electrical conductivity.
# 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 e-mail to russ_odell@ncsu.edu or by postal mail to Campus Box 7905, NC State University, Raleigh, NC 27695-7901.

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree and Class Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Street</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>State, Zip</td>
</tr>
<tr>
<td>Home E-Mail Address</td>
<td></td>
</tr>
<tr>
<td>Home Phone</td>
<td>Home Fax</td>
</tr>
<tr>
<td>Cell Phone</td>
<td></td>
</tr>
<tr>
<td>Company Name</td>
<td></td>
</tr>
<tr>
<td>Company Street</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>State, Zip</td>
</tr>
<tr>
<td>Company E-Mail Address</td>
<td></td>
</tr>
<tr>
<td>Company Phone</td>
<td>Company Fax</td>
</tr>
</tbody>
</table>

# 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 7905, NC State University, Raleigh, NC 27695-7905.

# Chemical and Biomolecular Engineering Administration

- Department Head: Peter Fedkiw
- Associate Department Head: Jan Genzer
- Director of Undergraduate Studies: Lisa Bullard
- Director of Graduate Program: Saad Khan
- Director of Graduate Admissions: Michael Dickey
- Director of Alumni Relations: Russ O’Dell
Like us on Facebook

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

Join our group: NC State Chemical and Biomolecular Engineering, and NCSU AIChE

www.che.ncsu.edu

Contact Information

NC State University
Department of Chemical and Biomolecular Engineering
Campus Box 7905
Engineering Building I
911 Partners Way
Raleigh, NC 27695-7905

Phone: 919.515.2324
Fax: 919.515.3465

Credits

Photography and Illustrations


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.

1,900 copies of this document were printed at a cost of $4,877.