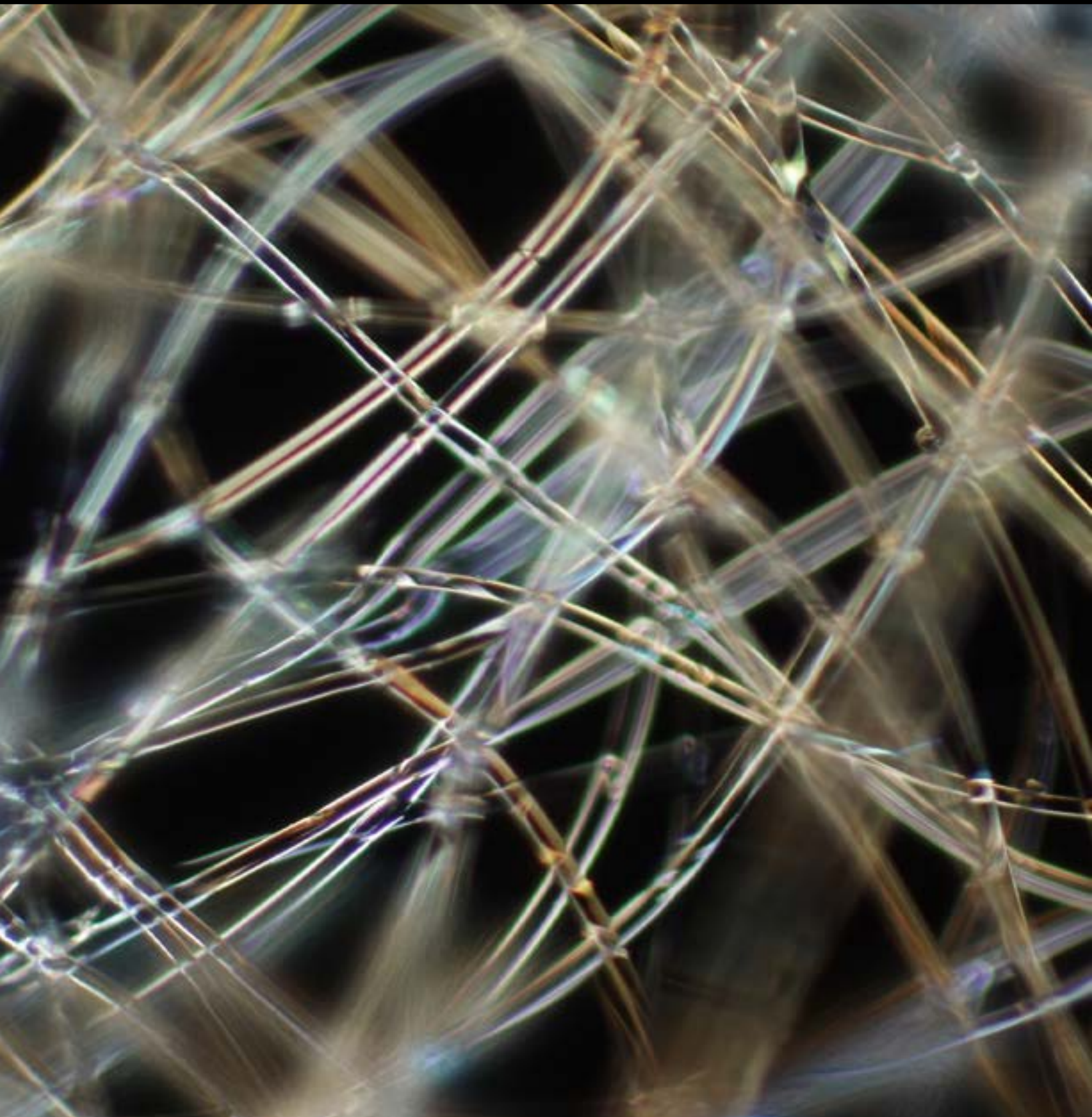


NC STATE

Engineering

CHEMICAL AND BIOMOLECULAR ENGINEERING | *CBE CONNECTS*

Volume 17 | Fall 2022



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Sindee Simon – Our New Department Head

Our new CBE Department Head, Sindee Simon, received her B.S. in chemical engineering from Yale University in 1983, followed by three years at Beech Aircraft working on the all-composite Starship. She received her Ph.D. in chemical engineering from Princeton University in 1992. She started her academic career as an assistant professor at the University of Pittsburgh, and then moved to Texas Tech in 1999 as an associate professor. At Texas Tech, she was named the P.W. Horn Distinguished Professor in 2010 and served as the Whitacre Department Chair of Chemical Engineering for seven years from 2012-2019. She started her most recent position at NC State as professor and department head of the Department of Chemical and Biomolecular Engineering on July 1, 2021. Her research focuses on the physics and chemistry of polymers and glass-forming materials, including polymerization and T_g at the nanoscale. She has published over 125 refereed journal publications and has over 6000 citations and an h-index of 44 (according to Google Scholar). She has numerous honors, including the Society of Plastics Engineers International Award, the Society of Plastics Engineers Research Award and the Lifetime Achievement Award of the North American Thermal Analysis Society. She has also been named a Fellow of the American Physical Society, the Society of Plastics Engineers, the North American Thermal Analysis Society and the American Institute of Chemical Engineers.

Department Head's Message

Welcome to North Carolina State Chemical and Biomolecular Engineering! Having completed my first year as the 10th head of CBE here at NC State, I am happy to report that the department is stronger than ever, in spite of the difficulties of the last few years. Our undergraduate chemical engineering is ranked #6 in the country by College Reviews and our research program is just as strong: we are fourth in the country in federal research expenditures and ranked #9 of U.S. chemical engineering departments by ShanghaiRanking.

Our students, faculty and alumni are recognized as truly outstanding, with prestigious honors and awards that are highlighted in the pages that follow.

As department head, I have focused my first year on maintaining our strengths and empowering the faculty, staff, students and alumni to make even bigger impacts. We have undertaken a number of new initiatives, including the following:

- A new department alumni-student mentoring program, managed by Danielle Riegel, was initiated in fall 2021 with 113 alumni-student matches; a new round of matches will be made this coming fall.
- The new Diversity, Equity and Inclusion (DEI) Committee, headed by Phil Westmoreland, has been developing the departmental DEI plan, and their first DEI workshop was held in June for CBE graduate students, faculty and staff.
- At the initiation of the new Student Advisory Council, we replaced the furniture in the atrium, renovated the student lounge, started an anonymous reporting site for cheating and other incidents and hosted a Department End-of-Year Wellness Day.
- Our social media presence has increased tremendously and our web sites will be updated over the next few months, thanks to our new communications and marketing specialist, Margaret Huffman.
- Two new assistant professors were hired and will start in FY 22/23: Wentao Tang will add expertise in the areas of process control, optimization and big data, and Artem Rumyantsev brings expertise in the scaling, theory and simulation of polyelectrolytes.

There is so much to be excited about, so much great news to convey, and I hope you enjoy learning more about your CBE Wolfpack by perusing this magazine. And, please do not hesitate to get involved and give back. There are a number of opportunities ranging from participating in the mentoring program, helping one of our design teams, supporting our faculty or students through an endowed gift or advocating with your employers for co-ops and jobs for CBE graduates.

In closing, I thank you all for the warm welcome that I have received as new department head, and I also thank you all for your dedication and commitment to our department. We would not be a global leader if it were not for the support of our alumni. Please do not hesitate to email me or stop by the department when you are in town!



Sindee Simon (she/her/hers)
Department Head
Chemical and Biomolecular Engineering
NC State University



Sindee Simon

Peter Fedkiw Steps Down After 13 Years as Department Head

Professor Peter Fedkiw received his B.Ch.E degree in 1974 from the University of Delaware and completed his Ph.D. studies at the University of California, Berkeley, in 1978. He joined the NC State faculty as an assistant professor immediately thereafter and was promoted to associate and full professor in 1983 and 1989, respectively. He was appointed associate department head in 2000 and department head in January 2008, serving for 13½ years.

From 1995 to 2008 Peter was a part-time Intergovernmental Personnel Act (IPA) employee of the Chemical Sciences Division, U.S. Army Research Office (ARO) in Research Triangle Park, while maintaining his teaching, research and administrative roles at NC State. At ARO, he formulated and managed research programs in the science and technology of soldier portable advanced-energy-conversion systems.

Peter's research expertise is electrochemical engineering. To date, he has directed or co-directed the theses of 48 graduate students, the majority of which are now Ph.D. graduates, and mentored 16 postdoctoral scholars. He has published 118 peer-reviewed papers and he has 7 patents issued or pending. He and his students have presented 130 papers at conferences and he has been a consultant to a variety of companies. Peter sits on a number of government review and advisory panels.

Peter is a member of the American Chemical Society, American Institute of Chemical Engineers (AIChE), American Association for the Advancement of Science (AAAS), Electrochemical Society (ECS) and Sigma Xi. He was vice-chairman and chairman for the AIChE annual meetings programming area in electrochemical fundamentals, and he represented the AIChE to the Working Party on Electrochemical Engineering of the European Federation of Chemical Engineers. Peter was elected as treasurer of ECS and served four years

on its executive committee. He was appointed in 2007 as a guest professor at Zhejiang University and in 2009 as a Distinguished Graduate Professor at NC State. Peter was named a Fellow of the Electrochemical Society in 2004 and the American Association for the Advancement of Science in 2020.

During his time as department head, Peter hired 13 faculty members: Phil Westmoreland, Matt Cooper, Chase Beisel, Fanxing Li, Erik Santiso, Stefano Menegatti, Albert Keung, Adriana San-Miguel, Lilian Hsiao, Milad Abolhasani, Qingshan Wei, Nathan Crook and Hassan Golpour. During this time, endowments benefitting the department took a giant leap from \$11.3 to \$35.9 million. There are now 67 scholarships and 10 named professorships in the department. Under Peter's leadership the annual research expenditures in the department increased from \$6.8 million in 2009 to \$13.4 million in 2021.

Peter returned to the faculty as a professor after stepping down as department head. He teaches undergraduate and graduate classes and directs the research of Ph.D. and M.S. students in his group.



Peter Fedkiw

Christine Grant Elected AIChE President

Professor Christine Grant has been elected president of the AIChE for the 2022 term. Serving as AIChE president is a 3-year commitment that spans the pre-presidential year, the presidential year and the post-presidential year.

Christine, an Institute Fellow, has served the Institute as a member of the Board of Directors, Chair of the Minority Affairs Committee, a member of the Chemical Technology Operating Council (CTOC), the Awards and Nominating Committees and a member of the steering committee for the Henry T. and Melinda C. Brown Endowment for the Education of Underrepresented Minority Chemical Engineers.

She is also a recipient of the Institute's William W. Grimes Award for Excellence in Chemical Engineering. The award recognizes an Institute member's outstanding achievements in the chemical engineering profession and as a distinguished role model for underrepresented people of color.

Outside of the Institute, Christine's accomplishments as an educator, leader and mentor have been recognized by achievement awards from the American Association for the Advancement of Science (AAAS), the American Chemical Society (ACS), the National Organization of Black Chemists & Chemical Engineers (NOBCChE), the Georgia Institute of Technology and the Council for Chemical Research, among others.

In recognition of her successes in promoting STEM careers among underrepresented groups, the National Science Foundation (NSF) honored her with the prestigious Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, which is "one of the nation's highest honors for mentors who work with underrepresented groups to develop fully the nation's human resources in STEM."

Christine served as the inaugural Associate Dean of Faculty Advancement in the College of Engineering and is currently working on a sabbatical assignment with the NSF. She earned her Sc.B. degree in chemical engineering at Brown University and her M.S. and Ph.D. degrees in chemical engineering at Georgia Tech.

"Being the 2022 President of AIChE has been an incredible experience. I have met colleagues from industry, government labs and academic institutions who are transforming our field by tackling issues in healthcare, energy and the environment. We also continue to celebrate the "NEXT" generation of professionals by providing mentoring and training opportunities for students from K-12 to the college level. Finally, we are committed to diversity, equity, and inclusion by creating a culture of cohesion and collective work where all voices matter."

Christine Grant



Christine Grant

Ruben Carbonell, Gary Gilleskie and Stefano Menegatti Lead \$27 Million AIM-BIO Project

A five-year project led by North Carolina State University is building an international collaborative research and training program in biomanufacturing science and technology. The effort focuses on the next generation of biopharmaceutical manufacturing – a rapidly evolving industry sector, critical to granting global access to powerful new biotherapeutics for treating a wide range of chronic and potentially lethal diseases. Biotherapeutics are large-molecule drugs produced by engineered organisms – including antibodies, enzymes, insulin and blood-clotting factors – as well as ingredients for gene therapy and regenerative medicine.

The project – “Accelerated Innovation in Manufacturing Biologics (AIM-Bio)” – is funded from 2020 to 2025 by the Novo Nordisk Foundation, whose vision is to “improve people’s health and the sustainability of society and the planet.” NC State will administer the \$27 million AIM-Bio program in collaboration with the Technical University of Denmark (DTU) in Copenhagen. NC State will receive \$18 million to carry out its activities, and the remainder will go to DTU.

Ruben Carbonell, Frank Hawkins Kenan Distinguished Professor of Chemical and Biomolecular Engineering at NC State and principal investigator on the grant, said that the project will have a significant global impact on improved manufacturing processes for these new drugs. It will also train a new generation of scientists and engineers who will lead the design and execution of the processes used to manufacture them.

Learn more about the project at aim-bio.ncsu.edu.

NC State CBE Ranked Globally

The NC State chemical engineering program is ranked 31st in the world and 9th in U.S. by the Academic Ranking of World Universities (a.k.a. ShanghaiRanking). The ShanghaiRanking is quantitative and based upon publicly available metrics, with an emphasis on scholarly publications, impact and awards.

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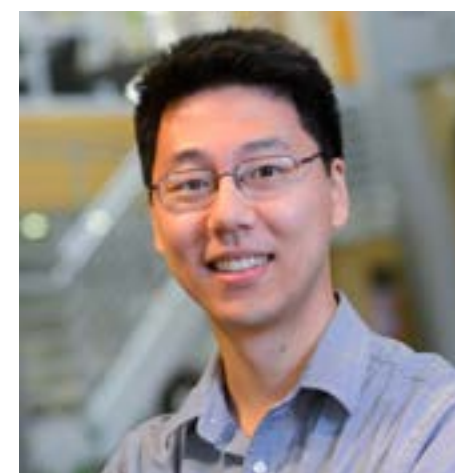
Albert Keung Receives NSF Funding for Chromatin Research

Albert Keung, associate professor, received a Faculty Early Career Development (CAREER) Award from the National Science Foundation (NSF) in spring 2022. The award is one of the highest honors given by the NSF to young faculty members in science and engineering.

Albert will receive \$825,816 over five years for his proposal, “A Synthetic Biology Platform to Map and Engineer the Diverse Epigenetic Space.” The project will build upon his recent research that focuses on chromatin, the complex layer of hundreds of proteins bound on top of the genomes of higher-order organisms.

The primary function of chromatin is to package long DNA molecules into more compact, denser structures. This prevents the strands from becoming tangled and plays important roles in reinforcing the DNA during cell division, thereby preventing DNA damage, and regulating gene expression and DNA replication.

Chromatin confers regulatory handles over diverse cellular and organismal processes including aging and cancer. Albert’s research team has developed techniques to unlock access to the diversity of chromatin. The next step is to develop new technological platforms and educational innovations that will unlock an understanding of, and ability to control, the expression of genes in organisms from yeast and plants to humans, with broad applications in biotechnology.



Albert Keung

Lilian Hsiao Receives Camille Dreyfus Teacher-Scholar Award

Lilian Hsiao, assistant professor, is a 2022 recipient of the Camille Dreyfus Teacher-Scholar Award from the Camille and Henry Dreyfus Foundation, Inc. This award is a significant achievement designed to financially support the research of junior faculty members who are excelling in their field.

Lilian joined the department in 2016 after obtaining her doctorate in chemical engineering from the University of Michigan and performing two years of postdoctoral work at the Massachusetts Institute of Technology.

Lilian is considered one of the top young leaders in the field of soft matter. Her research expertise is in the area of colloid and surface science, with a current project portfolio that includes the rheology of anisotropic particulates, the self-assembly of functional colloids and the friction of soft materials. In addition to her work in colloids, Lilian has established herself as a leader in the emerging area of haptic materials, particularly with respect to the frictional forces of non-ideal interfaces.

Lilian and her group will use chemical and physical principles at the microscale to engineer intelligent materials that can both sense and alter tactile forces. She says looks forward to applying the research funds to “push the boundaries of chemical transport phenomena, through nanocolloidal science and soft matter mechanics that have direct relevance to haptic materials.”



Lilian Hsiao
CBE Connects | 7

Q&A with Trent Carrier '94

Trent Carrier earned a bachelor's degree in chemical engineering from NC State in 1994. Trent also earned a Ph.D. in chemical engineering from the University of California Berkeley and an MBA from the Darden School at the University of Virginia. Trent is currently the Chief Operating Officer of L7 Informatics, a life sciences software company headquartered in Austin, Texas.

In a recent Q&A, Trent shared how CBE prepared him for a successful career and how he is giving back to his alma mater.

What was it like coming back to campus as an alumni speaker at graduation?

It was very exciting to see all of the graduates getting ready to take on the world. I've been to Centennial Campus a couple of times but it was special to be back on the main campus, despite the downpour during this year's graduation ceremonies (I forgot how slippery wet bricks can be).

What are some of your fondest memories of your time at NC State?

My fondest memories center on the wonderful people at NC State – friends, classmates, faculty members. It's remarkable to think back on my undergraduate experience and the number of people whose lives interlaced with mine during those years. Most of my clearest memories involve lack of sleep – whether waiting in line overnight for football tickets, studying late evenings in Jordan Hall (you could always find an open classroom) or enjoying a band party on fraternity court. I am excited about being back in Raleigh and having the opportunity to continue adding to those memories as an alumnus.

"There's really no limit to what a chemical engineer can do."

Trent Carrier
Keynote Speaker
Graduation, May 2022

How did CBE prepare you for the real world?

I find it funny that I've relocated my ChE textbooks and notebooks seven times since graduating from NC State. They are sitting on a bookshelf in our basement today. I think it's a generational thing – those books are a tangible symbol of my engineering training and so I keep dragging them around with me. The reality is that I'll never open them again because the most valuable skills that I received from CBE wasn't the specifics in the textbooks but rather the problem solving and critical thinking skills that I gained along the way.



Why did you choose NC State CBE?

Engineering was a field that appealed to me, which made NC State an easy choice. During my freshman year, I read somewhere that CHE paid the best and so decided to go that direction – not really an inspirational choice but I'm very thankful that I was lucky in making the right one for me.

What inspired you to spearhead the creation of the Richard M. Felder Teaching Excellence Endowment?

I always wanted to acknowledge the role that NC State and CBE had on my life and I wanted to do it in a way that emphasized what made it special for me. Teaching excellence is a clear priority for the department and I felt this would be a good way to rally support from alumni who shared this same experience. Engineering curriculum is a very dense subject and can too easily become textbook mechanics – CBE makes a genuine effort to teach the material so that it connects with the students.

Tell us a little about the endowment.

The Felder-Rousseau book is one that generations of chemical engineers used in college. Everyone knows Dr. Richard Felder from his *Elementary Principles of Chemical Processes* book – for me it was more personal because I had the opportunity to take multiple classes with him. Dr. Felder recognized that we all learn differently and tried to teach students in ways that would connect with the individual. After speaking with fellow classmates who also took classes with Dr. Felder, we felt like the best way to show our appreciation of his impact on us was through an endowment to advance teaching excellence. The endowment funds an annual teaching excellence award to a selected faculty member for workshops, continuing education, new course development and classroom enhancement. I was fortunate to have 60+ alumni and faculty join me in supporting this endowment. The endowment is still open and I would encourage any CBE alumni interested in recognizing teaching excellence to join us.

Dr. Richard M. Felder Teaching Excellence Endowment

Professor Emeritus Rich Felder conducted a Longitudinal Study from 1990 to 1992 in which he taught four foundational ChE courses CHE 205 (Fall 1990), CHE 311 (Fall 1991), CHE 315 (Spring 1992) and CHE 446 (Fall 1992) to a group of students. Members of that group initiated the Dr. Richard M. Felder Teaching Excellent Endowment to honor Dr. Felder and to highlight his legacy as a professor. The effort was led by Trent Carrier ('94) and Kathleen Jelinek Bentley ('93).



Richard Felder

Origins of Chemical Engineering at NC State

Chemical engineering at NC State evolved out of the industrial chemistry program – the branch of chemistry which applies chemical and physical processes to transform raw materials into beneficial products. The 1895-96 college record shows industrial chemistry was taught, “with attention being given to the more common industries, as sulphuric acid making, bleaching, dyeing, fertilizer making, paints, oils, etc.”

The first course in chemical engineering was created in 1899 “for young men seeking employment in the analytical or engineering departments of the various chemical industries such as the manufacture of soap, paper, leather, vegetable oils, glass, porcelain, illuminating gas, sulphuric acid, fertilizers, etc.” A curriculum was created, and classes were held in the Main Building (later named Holladay Hall). However, the curriculum was abandoned in 1902.

In the 1903 yearbook, *The Agromeck*, “chemical engineering” is written beneath the names of four seniors: Charles Lester Creech, Junius Franklin Diggs, Oliver Max Gardner and Charles Edward Trotter. However, the commencement program for May 27, 1903, shows these four students plus John Houston Shuford and Jonathan Winborne White were granted B.S. degrees in industrial chemistry.

The 1916-17 college record shows that “A Course (curricula) in Chemical Engineering” was reinstated. This four-year course led to the degree of Bachelor of Science, whereas the other engineering disciplines (civil, electrical and mechanical) led to Bachelor of Engineering degrees. The commencement program of May 25, 1920, shows three students receiving Bachelor of Science degrees in chemical engineering:

James Cyrus “Jimmie” Black Jr., from Davidson, NC: Sophomore Class Secretary-Treasurer, Senior Class Vice President, Varsity Football, Varsity Baseball (Captain Senior Year), 1st Lieutenant ROTC (senior year). Jimmie took a job with the Aluminum Company of America (Alcoa) in Badin, NC, as a researcher.

George Maxwell “Max” Greenfield, from Kernersville, NC: Berzelius Chemical Society, Pullen Literary Society, Tennis Club, Captain ROTC. Max took a job with Standard Oil Company of New Jersey in Charleston, SC, as a stillman, running a distillation process.

Marion Francis Trice, from Hendersonville, NC: Sophomore Class Vice President, Cheerleader, Technician Editor-In-Chief, Senior Class Poet, Glee Club, Agromeck Associate Editor, Captain ROTC. Marion took a job with Ellis-Foster in Montclair, NJ, as a chemist.

The School of Engineering was established on May 28, 1923, and the chemical engineering department was organized as a part of the School of Engineering by the Board of Trustees of North Carolina State College of Agriculture and Engineering in September 1924. Dr. E. E. Randolph, Professor of Chemistry, was appointed Head of the Department and its sole faculty member. Twenty-two students registered that first year and all classes and labs, as well as the faculty office, were housed in one room on the corner of Winston Hall.

The commencement program of June 9, 1925, shows two students receiving their Bachelor of Science degrees in chemical engineering under the School of Engineering: Frederick Vernon Harcourt Smith and Kenneth MacKenzie Urquhart.

The 1924-25 college catalog lists three chemical engineering graduate students: Winslow Samuel Anderson, Wen Pei Chen and Luther George Willis. None of these three students ever received a degree in chemical engineering; however, Wen Pei Chen did earn an M.S. in textile and apparel management in 1925.

The first graduate degrees in chemical engineering were awarded to the following:

James Whitney Perry – Master of Science in Chemical Engineering on May 15, 1928
Durant York Brannock – Professional Degree in Chemical Engineering on June 9, 1931
Rupert Leslie Cox – Master of Science in Chemical Engineering on June 5, 1939
James K Ferrell – Ph.D. in Chemical Engineering on June 6, 1954

By 1949, we had seven professors, two instructors, 177 undergraduates and four M.S. students. The department had outgrown Winston Hall and in the summer of 1950, moved to a newly-constructed Riddick Hall. Our last move, in 2005, was to our current home in Engineering Building I on Centennial Campus.

CBE will celebrate its 100th year as a department during Red and White Week 2024.

Stay tuned for more information about CBE’s Centennial Celebration.



New Endowments for the CBE Department

Victor Agreda ('75, Ph.D. '79) and his wife, Carla, created the Victor and Carla Agreda Graduate Student Award. The award will be used to support the department's annual Schoenborn Graduate Symposium. Victor received the Schoenborn Award for his Ph.D. research. After graduation, Victor went to work at Eastman Kodak, now Eastman Chemical Company, in Kingsport, TN. He held a wide variety of management positions as director of several R&D divisions including Physical and Analytical Chemistry Research Division, Eastman Technology (Research, Development, Analytical and Technical Services) in Europe, Eastman Chemicals Development Division and ultimately became Technology Director.

Mack Bailey (Ph.D. '73) amended the Mack Bailey Scholarship Endowment to provide a scholarship for undergraduate students enrolled in the Department of Chemical and Biomolecular Engineering. His scholarship was originally created in 1992 for students enrolled in the pulp and paper program. Mack earned a B.S. in Pulp and Paper Science and Technology in 1968 and a Ph.D. in chemical engineering in 1973. He worked for 27 years at Celanese Fibers in Rock Hill, SC. Mack took an early retirement from Celanese and taught high school STEM courses at Rock Hill High School for 11 years.

Quint Barefoot ('85) and his wife, Robin, created the Barefoot Family CBE Academic Enhancement Endowment which supports the undergraduate program. The endowment provides stipends for students serving as Barefoot CBE Ambassadors and as AIChE Student Chapter Officers. After graduation, Quint joined Four Seasons Environmental, a small family business, and grew the company from less than \$1 million in annual revenue to over \$90 million and employing over 480. Since then he has led several startups including Monosep, Waters Edge Environmental, Zappa-Tec and Info-Gel.

William Y. Barkley (EE '75) created the William Hugh Barkley Scholarship Endowment in honor of his father, **Hugh Barkley ('27)**. Hugh, a native of Charlotte, was one of just seven B.S. ChE graduates in the Class of 1927. After graduation he went to work for the Champion Fibre Company in Canton. The company became Champion Paper and Fibre Company after a merger in 1935.

Med Byrd ('84) created the Medwick Byrd Family Scholarship for undergraduate students enrolled in the Paper Science and Engineering program. After completing dual degrees in paper science and technology and chemical engineering, Med started his career at Buckeye Cellulose in Memphis, TN. He was accepted into the Ph.D. program in Forest Biomaterials at NC State, finishing in 2000. Med is the Director of Applied Research in the Department of Forest Biomaterials and the undergraduate coordinator for the paper science and engineering program.

Van Delk ('73) created the Van M. Delk Jr. Scholarship Endowment in Chemical and Biomolecular Engineering. The endowment provides scholarship support to undergraduate students in the Department of Chemical and Biomolecular Engineering who have a financial need. The endowment was funded in 2020 with a realized will bequest of just over \$1.2 million. An endowment of this size can provide \$4,000 scholarships to 12 students every year. Van started his career at Phillip-Foscue in High Point, but spent most of his career with Dow Chemical, most recently as a Technical Service Manager in Freeport, TX.

Joel Derby ('81) and his wife, Katie Godchaux Derby, created the Godchaux-Derby Scholarship Endowment. Joel started his career at Texaco and over the next 18 years experienced every step of the natural gas value chain including engineering support and gas plant operations, environmental regulatory compliance, business development and gas supply to the plants, NGL trading and supply, NGL distribution management, gas sales to end users, gas transportation and deepwater pipeline transportation development. Over the next 20 years, he did project management work in the oil and gas business at Project Associates, Audubon Engineering Operations and Shell Pipeline Company.

John Earnhardt ('63) created the John W. Earnhardt Jr. Scholarship Endowment. Earnhardt started his career with DuPont Fibers in Waynesboro, VA, where he collaborated on the development of the flame-resistant meta-aramid fiber Nomex. He then led the globalization of DuPont's Lycra/Spandex business, traveling around the world to assure the interchangeability of products from wherever they were sourced. John retired from DuPont in 1996 after 33 years and started an environmental management consulting business which he named Pro Services. His work involved a strong focus on pollution prevention, legal and regulatory compliance and continual improvement.

Steffanie (Burt) Easter ('85) and her husband, Lasalle, created the Steffanie B. and Lasalle D. Easter Extraordinary Opportunity Scholarship Endowment. Steffanie joined the United States Navy as a civilian after graduating from NC State. In 1995, she earned an M.S. in engineering from the Catholic University of America. She served within the Department of the Navy as the Assistant Commander for Acquisition for Naval Air Systems Command; the Assistant Deputy Chief of Naval Operations for Manpower, Personnel, Training and Education; and the Executive Director for the F-35 Lightning II Program. Steffanie transitioned to the U.S. Army and was named Principal Deputy to the Assistant Secretary of the Army for Acquisition, Logistics and Technology.

Elin Gabriel ('85) initiated a series of planned estate gifts to establish the following endowments: Elin E. Gabriel Academic Enhancement Fund, Distinguished Professorship, Library Fund, Study Abroad Scholarship and Women in Engineering. Elin's career has been marked by leadership positions such as operations manager at Honeywell International, plant manager at Performance Fibers, VP of Global Supply Chain at Alpharma Pharmaceuticals, Executive VP of U.S. and Western European Operations for Actavis Group Pharmaceuticals, Senior VP of European Product Supply for Teva Pharmaceuticals, Chief Operating Officer for Alvogen and VP of Global Operations for H. B. Fuller.

Clark (Rhodes) Hight ('86) and her daughter, Alex, created the Hight Family Scholarship Endowment. Clark earned both ChE and PSE degrees in 1986 and went to work for International Paper in Georgetown, SC. She is a controls engineer at the Georgetown mill.

Chris Humphrey ('93) and his wife, Kimberly, created the Christopher and Kimberly Humphrey Extraordinary Opportunity Scholarship. After earning a B.S. chemical engineering degree, Chris received a law degree from UNC-Chapel Hill. He is a patent attorney and partner at Womble Bond Dickinson specializing in patent prosecution and counseling, particularly domestic and foreign prosecution of mechanical, chemical and biotechnology patents, with an emphasis on life science related technologies.

Tom Kuharcik ('94) created the James Kuharcik Memorial Extraordinary Opportunity Scholarship Endowment in honor of his father. After graduation Tom initially went to work at National Starch and Chemical Company then joined Rohm and Haas as a production manager. He moved to the Scotts Miracle-Gro Company, taking on vice president roles in the manufacturing, global operations and global supply chain divisions. Tom came back to North Carolina as senior vice president, supply chain operations, for Krispy Kreme in Winston-Salem.

Phil Lassiter ('64) created the Phillip B. Lassiter Scholarship Endowment which will provide merit-based scholarships for undergraduate students enrolled in the Department of Chemical and Biomolecular Engineering. Upon graduation, Phil served in the U.S. Navy and started in a sales position for Shell Chemical in New York City. He then spent 22 years with Citicorp in various leadership positions before going to Ambac Financial Group, a diversified international financial firm, taking on executive leadership roles as president, CEO and chairman of the board.

Mike Lowder ('78) created the Michael W. Lowder Scholarship Endowment and a planned gift to add to the endowment. Distributions from the fund will be used

to provide need-based scholarships for undergraduate students in the Department of Chemical and Biomolecular Engineering. Preference will be given to first generation students and those who are residents of North Carolina. Upon graduation, Mike went to work at Eastman in Kingsport, TN, and he has remained there for 43 years and counting. Lowder is currently the director of process engineering for Eastman Chemical Company.

Ronnie McNeill ('73) and his wife, Cyndi, created the Ronald B. and Cynthia J. McNeill Distinguished Professorship in Nanomedicine. He started his career as an environmental engineer with the NC Department of Natural & Economic Resources in Raleigh. Following an MBA from Georgia State in 1984, Ronniel returned to North Carolina and with his brother started a series of healthcare-related businesses which continue to this day. Ronnie and his brother run Liberty Healthcare Group, which provides home care, hospice, skilled nursing, assisted living and senior living services across North Carolina and portions of surrounding states.

Don Memory ('58) created the Duncan Thomas Memory Endowed Scholarship to honor his father who was a member of the State College Civil Engineering Class of 1923. The endowment provides scholarship support to students in the chemical engineering program at NC State. The scholarship considers both academic merit and financial need. Don started his career at West Virginia Pulp and Paper (Westvaco) in Covington, VA. He later moved to Winston-Salem and became a financial advisor with Smith Barney and eventually became a first vice president at Morgan Stanley Smith Barney.

Shobha and Suresh Subramonian along with their daughter, **Brinda Monian** ('13) and son, Ashwin Monian, established the Monian Family Scholarship. Every year, three \$3,000 scholarships are awarded to transfer students with a preference to those enrolled in the Department of Chemical and Biomolecular Engineering. The Monian Family greatly values higher education and graciously decided to provide financial assistance to students who are motivated to pursue a college degree but have limited financial means. This is the first scholarship program in the CBE department that targets transfer students.

Elizabeth Nance ('06) along with her mother, Candy Nussman Nance, and her uncle, Tommy Nussman, are turning the annually funded Edna Loretta Nussman Scholarship into an endowment. The scholarship was named in honor of Elizabeth's grandmother who served as an inspiration. Elizabeth is the Bindra Associate 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.

New Endowments,

Continued

Don Paul ('61) and his wife, Barbara, created the Donald Paul CBE Scholarship for students pursuing an undergraduate degree in the Department of Chemical and Biomolecular Engineering and have a financial need. The scholarship has a preference for students coming from eastern North Carolina. Following his B.S. degree from NC State, Don went to the University of Wisconsin at Madison where he earned M.S. and Ph.D. degrees in chemical engineering. Don joined the chemical engineering faculty at the University of Texas-Austin in 1967 and celebrated his 50th year in 2017. He has won numerous awards including election to the National Academy of Engineering.

William M. Ponton ('98) and his wife, Tammy, created the William and Tammy Ponton Scholarship Endowment to provide need-based scholarships for students coming from eastern North Carolina. William graduated in 1998 with a B.S. in chemical engineering and a B.S. in pulp and paper technology. William is currently the general manager at the Nutrien - Aurora, NC Phosphate Mine and Chemical Complex. This complex is one of the largest integrated mining and chemical complexes in the world and Nutrien is one of the largest agricultural companies in the world.

Tom Sidbury ('86) and his wife, Ellen, created the D. Thomas and Ellen W. Sidbury Scholarship Endowment. Tom held a variety of positions in various parts of the world including stints at Burroughs Wellcome, Takeda Chemical Products, Glaxo Wellcome, Noramco, Janssen Pharmaceutica, Ethicon and Johnson & Johnson. He held roles such as director of operations, plant manager, global facilities director and ultimately vice president of facilities enterprise management.

CBE Scholarships, Fellowships, Professorships and Programmatic Funds

Scholarship Funds

Ernie and Beverly Alexander
Anthony and Linda Ambrosio
Ernest J. and Ethel H. Angelo Memorial (Bill Angelo)
Mack William Bailey
Billy B. Bardin and Linh D. Le
Robert M. Barefoot (Quint Barefoot)
William Hugh Barkley
John K. Beasley
Robert O. Bradley, IV
Chisa Brookes
William D. Bulla, Jr.
Medwick Byrd Family
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
John W. Earnhardt Jr.
Steffanie and Lasalle Easter
William R. Edwards
Theresa Mooney Freeman
Elin E. Gabriel
Garwood Family (Jeff and Bill Garwood)
Godchaux-Derby (Joel Derby)
William Jackson Goodrum
Carlos D. and Barbara Hoyle Gutierrez
Theodore A. and Peggy B. Hardaway
Hight Family (Marianne & Alexandra)
Herbert and Leila Hooper

Scholarship Funds, Continued

Christopher and Kimberly Humphrey
Randy D. Jester
James M. and Laura B. Johnson
Richard M. Jones
Robin Barker Jones Memorial
Rolf Kaufman
James Kuharcik (Tom Kuharcik)
Phillip B. Lassiter
Lawton Family Caldwell (Hal Lawton)
Jerry G. Lewis
Michael W. Lowder
Donald C. Martin
Sidney F. Mauney Jr. Memorial
Alan M. and Nancy D. McGee
Duncan T. Memory (Donald W. Memory)
Forest O. Jr. and Sandra Mixon / BS&T Friends
Forest O. Jr. and Sandra Mixon / RTI
E. J. and Ruth Mogilnicki Deferred Gift Annuity
Monian Family (Shobha, Suresh, Brinda, Ashwin)
Zach Nicholson
Edna Loretta Nussman (Elizabeth Nance)
Russ O'Dell
Donald R. Paul
Paving the Pathway (Brick Walkway)
Johnnie L. Pearson
Richard and Mary Phillips Family Leadership Incentive
William and Tammy Ponton
Verna Strickland Ramsey (Ron Brown)
Catherine and Kyle Rehder University Scholars
George W. Roberts Memorial
J. Frank Seely
Sideris Family (Harry)
Henry B. and Virginia T. Smith
Carl Stutts and Tessa Lesley
Henry C. and Nancy A. Thomas
Vaden Family (Tom & Mike)
Alan & Ellen Weinberg
Milt Williams
James D. Yopp, Jr.

Graduate Student Funds

Victor & Carla Agreda Graduate Student Award
Norvin A. Clontz / Milliken Grad Student Fund
Wayne T. Day Family Graduate Student Fund
James K. Ferrell Award
Edward M. Schoenborn Award
Vivian T. Stannett Award

Professorships & Faculty Funds

Alcoa Professorship
Ruben and Augie Carbonell Distinguished Professorship
Celanese Acetate Chemical Engineering Professorship
Worley H. Clark Distinguished Professorship
S. Frank and Doris Culberson Distinguished Professorship
Camille and Henry Dreyfus Foundation Professorship
Richard M. Felder Teaching Excellence Award
Elin E. Gabriel Distinguished Professorship
Goodnight Distinguished Professorship in Innovation
INVISTA Professorship in Chemical Engineering
William R. Kenan Jr. Chemical Engineering Research
Ronald B. and Cynthia J. McNeill Distinguished Professorship
Richard M. and Judith A. Minday Young Faculty Support Fund
Russ and Susie O'Dell Distinguished Professorship
Alan and Ellen Weinberg Distinguished Professorship
James D. Yopp, Jr. Distinguished Professorship

Programmatic Funds

Barefoot Family Academic Enhancement Fund
Lisa G. Bullard Undergraduate Enhancement Fund
Celanese Acetate Enhancement Fund
S. Frank and Doris Culberson Academic Enhancement Fund
James E. and Lois C. Deas Enhancement Fund
Elin E. Gabriel CBE Study Abroad Scholarship
Elin E. Gabriel Academic Enhancement Fund
Elin E. Gabriel Women In Engineering Program
Elin E. Gabriel Library Fund
Keith E. Gubbins Lecture Series
E.E. Randolph Memorial Fund (BE Lauer)
George W. Roberts Memorial Fund (AIChE)
D. Thomas and Ellen W. Sidbury CBE Fund
A.W. and Katie Stafford Enhancement Fund
Ronald and Dale Terry Student Assistance



Interested in Giving Back?

To learn more about departmental priorities and opportunities, contact Russ O'Dell at russ_odell@ncsu.edu or Sindee Simon at sindee.simon@ncsu.edu.

Undergraduate Student News

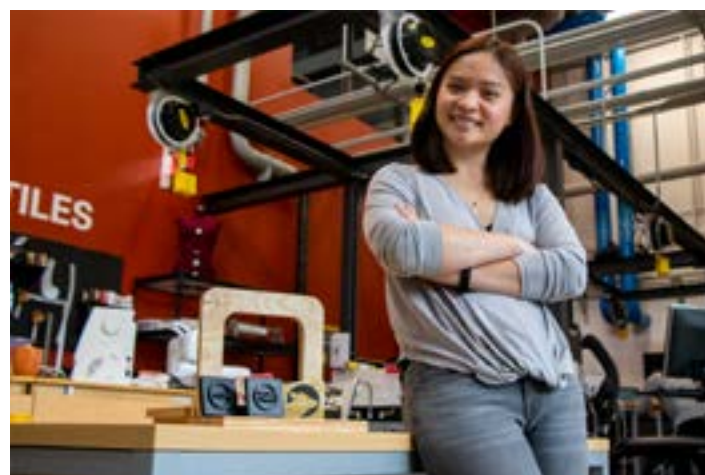
Daniel Haller received the prestigious Goldwater Scholarship from NC State. He is also a Park Scholar and a member of Professor Nathan Crook's research team. Daniel graduated in May 2022 with a host of other honors (included elsewhere in the magazine) and will pursue a graduate degree at Rice University in systems, synthetic and physical biology.

Sydney Floryanzia was selected as a recipient of the national AIChE Minority Affairs Committee College Scholarship Award for the 2020-2021 academic year. She was named the 2020 STEM Changemaker of the Year by Reinvented Magazine at the Recognizing Reinventors Awards. In addition, she was a member of the NC State SensUs team that won third place in the annual international student competition on sensors for health in the Netherlands in 2018. Sydney graduated in May 2021 with a host of other honors (included elsewhere in the magazine) and is pursuing a graduate degree at the University of Washington in chemical engineering.

Michael Bowen was one of 52 recipients of an Astronaut Scholarship from the Astronaut Scholarship Foundation (ASF) for 2019-20. The ASF was created in 1984 by several persons with strong ties to the U.S. manned space program including the (then) six surviving Mercury 7 astronauts (Scott Carpenter, Gordon Cooper, John Glenn, Walter Schirra, Alan Shepard and Deke Slayton) and Betty Grissom (widow of the seventh astronaut, Virgil "Gus" Grissom). According to the ASF, "Astronaut Scholars are among the best and brightest minds in STEM who show initiative, creativity, and excellence in their chosen field." Michael was also an awardee at the 2019 NC State University Annual Spring Undergraduate Research and Creativity Symposium for his project, "Mind Over Matter." Michael is currently pursuing a graduate degree at the University of California, Berkeley in chemical engineering.

Corwin Kerr received several awards based on his work as a student researcher. First, he was an awardee for his project at the 2019 NC State Annual Spring Undergraduate Research and Creativity Symposium. Second, he received the Richard L. Blanton Capstone Award through the University Honors Program. Third, he published the results of his research project as the first author of the article "A low-cost, non-invasive phase velocity and length meter and controller for multiphase lab-in-a-tube devices" in the prestigious microfluidics journal *Lab on a Chip*. Corwin is currently pursuing a graduate degree at the University of Michigan in chemical engineering.

Tran Nguyen won the 2022 Design Challenge sponsored by the NC State Entrepreneurship Program. Her winning design was an attachment for 3D printers that makes it easier and more sustainable to customize a 3D printed item. Tran is currently a process engineer at Coty.



Tran Nguyen

CBE Outstanding Seniors

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

2018-19: Matthew Burroughs (Scholarly Achievement), **Malay Shah** (Leadership), **Rosalynn Phan** (Citizenship and Service), **Caroline Moody** (Humanities)

2019-20: Michael Bowen (Scholarly Achievement), **Jayme Currie** (Leadership), **Lauren Mathis** (Citizenship and Service), **Catherine Wagner** (Humanities)

2020-21: Jack Davis (Scholarly Achievement), **Luke Sobolewski** (Leadership), **Sydney Floryanzia** (Citizenship and Service), **Julia O'Brien** (Humanities)

2021-22: Daniel Haller (Scholarly Achievement), **Emily Spero** (Leadership), **Abigail Cordiner** (Citizenship and Service), **Sam Revak** (Humanities)

AIChE Student Chapter Officers

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

2019: Jayme Currie, Lucas Wylie, Jennifer Lo, Haley Ni, Joseph Holder, Jacob Lustik

2020: Joseph Holder, Haley Ni, Emily Heckard, Ashley Nelson, Mark Haskins, Emily Spero

2021: Emily Spero, Mark Haskins, Ramya Balasubramanian, Abigail Cordiner, Andrew Berley, Carmen Jarrell

2022: Noha Zayan, Carmen Jarrell, Zach Whitacre, Elizabeth Vampola, Zac Gill, Lauren Kielty

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:

2018-19: Sean Kauder

2019-20: Andrew Berley

2020-21: Zac Gill

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.

2018-19: Emily Heckard

2019-20: Sean Kauder

2020-21: Andrew Berley

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.

2018-19: Lexi Kloeppe

2019-20: Jayme Currie

2020-21: Joseph Holder

2021-22: Daniel Haller

NSF Graduate Research Fellowship Awards

Matt Burroughs ('19) University of Texas - Austin

Brooke McGirr ('19) University of Virginia

Sean Engels ('20) University of Texas - Austin

Nikki McArthur ('20) Georgia Institute of Technology

Jennifer Fang ('21) MIT

Sydney Floryanzia ('21) University of Washington

Karl Persson ('21) Stanford

Daniel Haller ('22) Rice

Alexis Voulgaropoulos ('22) Stanford

#6

Best Undergraduate Chemical Engineering Program in the U.S.

bestcollegereviews.org

AIChE Student Chapter News

2018 AICHE ANNUAL STUDENT CONFERENCE – PITTSBURGH, PA

Outstanding Student Chapter Award - **Kim Roberts** and **Russ O'Dell**, advisors, and **Rachel Scroggins**, president.

Jayne Currie - Donald F. & Mildred Topp Othmer National Scholarship: \$1,000 award to 15 chemical engineering students for their outstanding academic achievement and involvement in student chapter activities.

Matthew Burroughs - Second-Place Poster Award (Food, Pharmaceutical, and Biotechnology).

Corwin Kerr - First-Place Poster Award (General Chemical Engineering).

Joseph Holder - Donald F. Othmer Sophomore Academic Excellence Award.

Sydney Floryanzia - Freshman Recognition Award.

2019 SOUTHERN REGIONAL CONFERENCE – STARKSVILLE, MS

Twenty NC State students attended the conference.

2019 AICHE ANNUAL STUDENT CONFERENCE – ORLANDO, FL

Outstanding Student Chapter Award - **Kim Roberts**, advisor, and **Lucas Wylie**, president. The chapter was noted for earning this recognition for the 10th consecutive year.

Jayne Currie - John J. McKetta Undergraduate Scholarship: \$5,000 award to one chemical engineering undergraduate student each year (incoming junior or senior only) who is planning a career in the chemical engineering process industries. Jayme served as president of our AIChE student chapter for the 2019-2020 academic year.

Lucas Wylie - Donald F. & Mildred Topp Othmer National Scholarship: \$1,000 award to 15 chemical engineering students for their outstanding academic achievement and involvement in student chapter activities.

Abel Locklear - Minority Affairs Committee Scholarship: \$1,000 award to members of a minority group that is under-represented in chemical engineering; it is renewable to the following year.

Tyler Void - Minority Affairs Committee Scholarship: \$1,000 award to members of a minority group that is under-represented in chemical engineering; it is renewable to the following year.

Jacob Lustik - Third-Place Poster Award (Materials Engineering and Sciences).

Ramya Balasubramanian - Third-Place Poster Award (Food, Pharmaceutical, and Biotechnology).

2020 SOUTHERN REGIONAL CONFERENCE – AUBURN, AL

The team of **Abigail Cordiner** (captain) and **Trevor Hinshaw**, **Mariam Shah**, and **Jon Calabretta** won the ChemE Jeopardy competition.

2020 AICHE ANNUAL STUDENT CONFERENCE – SAN FRANCISCO, CA

Outstanding Student Chapter Award - **Kim Roberts**, advisor, and **Jayne Currie**, president. This marks the chapter's 25th Outstanding Student Chapter Award.

Joseph Holder - Donald F. & Mildred Topp Othmer National Scholarship: \$1,000 award to 15 chemical engineering

students for their outstanding academic achievement and involvement in student chapter activities.

Jennifer Fang - Second-Place Poster Award (Materials Engineering and Sciences).

2021 SOUTHERN REGIONAL CONFERENCE – LOUISVILLE, KY

Alexis Voulgaropoulos - First-Place Technical Paper Award.

Mariam Shah - Third-Place Poster Award.

The team of **Abigail Cordiner** (captain) and **Trevor Goodman**, **Mariam Shah**, and **Jon Calabretta** made it to the final round of the ChemE Jeopardy competition.

2021 AICHE ANNUAL STUDENT CONFERENCE

Outstanding Student Chapter Award - **Kim Roberts**, advisor, and **Emily Spero**, president. The chapter was noted for earning this recognition for the 23rd time in 25 years.

Alexis Voulgaropoulos - First-Place Technical Paper Award

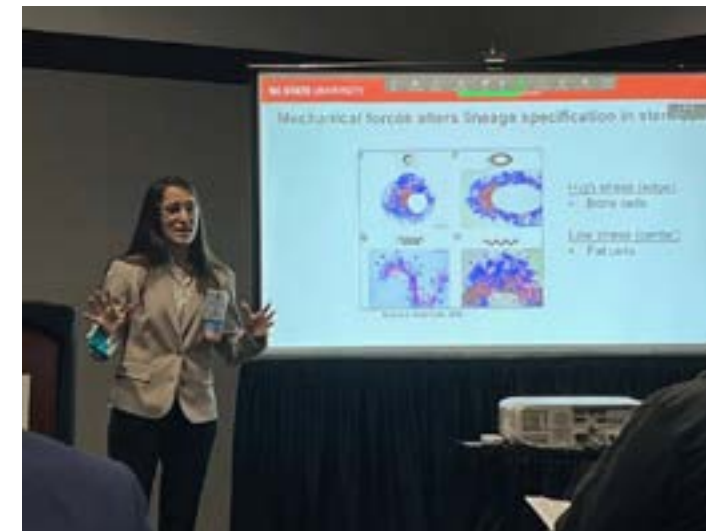
Mitchell and **Jared Haselow**, **Tran Nguyen** and **Mariam Shah** win the Entrepreneurship Award in the AIChE ChemE Cube Competition. The team finished second place overall.

2022 SOUTHERN REGIONAL CONFERENCE – RALEIGH, NC

NC State hosted the virtual regional conference.



Outstanding Chapter Award Winners, 2021



Voulgaropoulos, AIChE Nationals, 2021



ChE Cube Team, AIChE Nationals, 2021

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.

2019: Vasudev Haribal and Chris Straub (tie 1st), Amulya Pervaje (3rd)
2020: Robert Epps (1st), Ria Corder (2nd), Dilara Sen Peers (3rd)
2021: Scott Baldwin (1st), Salvatore Luiso (2nd), Natasha Castellanos (3rd)
2022: Rachel Nye (1st), Adam Bachmann (2nd), James Crosby and Victoria Karakis (tie 3rd)

Schoenborn Graduate Student Poster Presentation Award

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

2019: Jiaqi Yan (1st), Sabina Islam (2nd), Javier Huayta Ramirez (3rd)
2020: Kevin Lin (1st), Aditya Sapre (2nd), Rajesh Paul (3rd)
2021: Tamoghna Saha (1st), Veena Vallem (2nd), Sudeep Sarma (3rd)
2022: Milad Shamsi (1st), Fazel Bateni (2nd), Prottasha Sarker (3rd)

Stannett Fellow Award for Outstanding Early Publication

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.

2019: Sahand Bosari (1st), Ryan Dudek (2nd)
2020: Kyle Tomek (1st), Rajesh Paul and Jiaqi Yan (tie 2nd)
2021: Kevin Lin (1st), Zachary Campbell (2nd)
2022: Andrew Clark (1st), Fazel Bateni and Alison Waldman (tie 2nd)

Praxair Exceptional Teaching Assistant Award

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 among the top 20% of nominees selected by students enrolled in CHE classes.

2018 Fall Semester: Ria Corder
2019 Spring Semester: Joseph McCaig
2019 Fall Semester: Rachel Nye
2020 Spring Semester: Vahid Rahmanian
2020 Fall Semester: Leah Granger
2021 Spring Semester: Begum Yagci
2021 Fall Semester: Kyle Vogt-Lowell

GSA Student Chapter Officers

Our GSA student chapter continues its tradition of strong leadership. Thanks to the following students for all their efforts: (shown as president, vice president, treasurer, secretary, social chair, webmaster, VP external and professional development chair, respectively).

2019-2020: Rachel Nye, Chris Estridge, Rita Tejada Vaprio, Javier Huayta, Xin Dong, Ryan Tam, Alison Waldman
2020-2021: Mike Petrecca, Carly Catella, Brandyn Moore, Nidhi Diwakar, Thomas McDonald, Sudeep Sarma, Alison Waldman
2021-2022: Nidhi Diwakar, Magdelene Lee, Rakshit Jain, Sneha Mukherjee, Daniel Cardenas-Vasquez, Landon Keller, Zach Hetzler

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 themselves 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 Professor James K. Ferrell who was the first Ph.D. graduate from NC State's chemical engineering program, a CBE faculty member, the department head from 1966 through 1980, and a 1992 College of Engineering Distinguished Engineering Alumni Award recipient.

2019: Koohee Han (1st), Yiming Wang (2nd)
2020: Chris Straub (1st), Sangchul Roh (2nd)
2021: Kaihang Shi (1st), Barbara Vasconcelos de Farias (2nd)
2022: Shravan Pradeep (1st), Jiaqi Yan (2nd)



Shravan Pradeep accepts the Ferrell Outstanding Ph.D. Graduate Award from Sindee Simon at the graduation ceremony in May 2022.

Graduate Student Notes

Leo Brody was awarded first place for his talk in Session 4 at the 2020 Carolina Science Symposium

Zachary Campbell was selected to receive a Fulbright Scholarship that funds a fully-paid nine-month research stay at the Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB) in France.

Camden Cutright earned the Best Presentation Award at the 2018 meeting of the Nonwovens Institute's Industrial Advisory Board for his talk, "Stimuli-Responsive Hydrogels in Nonwoven Fabrics as Membranes for Programmable Transport/Blocking of Moisture and Small Molecules."

Vasudev Haribal received the first-place award in the engineering category at the 14th Annual Graduate Student Research Symposium held on March 20, 2019. Vasudev received the award for his poster "Light Alkane Valorization to Ethylene via Chemical Looping," co-authored with Luke M. Neal, Seif Yusuf and Fanxing Li. Vasudev also received awards for two poster presentations. He won the Catalysis and Reaction Engineering (CRE) Division Poster Award for his poster titled 'Kinetics of Ethane Oxidative Dehydrogenation via Chemical Looping.' The award included being selected as the best presenter in the division's technical area of reaction engineering. Over 350 participants presented their work during the CRE division poster session, and Vasudev earned third place in the Particle Technology Forum (PTF) Poster Session, for his work titled 'Light Alkane Valorization to Ethylene via Chemical Looping Oxidative Dehydrogenation'.

Amber Hubbard participated in the 2018 Rising Stars in Chemical Engineering – An Academic Career Workshop for Women, at the Massachusetts Institute of Technology. Each year, the Department of Chemical Engineering at MIT invites "top early career women who are interested in faculty careers in chemical engineering" to apply and participate.

Salvatore Luiso received two awards at the 2020 Carolina Science Symposium: first place (tied) for his talk in Session 2 and second place for (overall) oral presentation. Salvatore also won second place in NC State University's Three Minute Thesis competition.

Taylor Neumann was the People's Choice winner at the October 29, 2019 Three Minute Thesis competition. Taylor also won the first place award for microscopy in the graduate student/postdoc category of the 2019 Envisioning Research contest at NC State University for his image, "Liquid Metal Sunset," see right, and the second place award in the video and interactive category for his submission, "Liquid Metal Rain." Taylor won the honorable mention award for microscopy in the graduate student/postdoc category of the 2020 Envisioning Research contest at NC State University for his image, "A Meeting of Metals."

Lydia Skolrood, a second-year Ph.D. student, was awarded a prestigious Graduate Research Fellowship from the National Science Foundation (NSF).

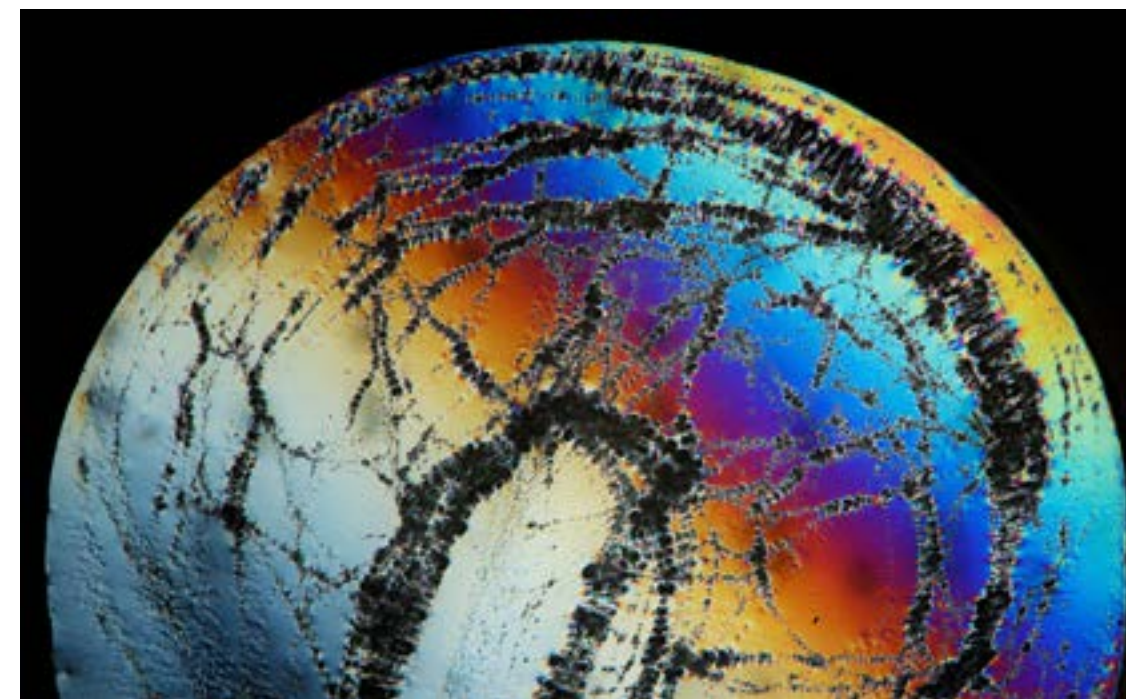
Bharadwaja Srimat Tirumala Peddinti "S.T.P." won the poster competition grand prize at the 2018 Triangle Student Research Competition (TSRC). The TSRC is a competition for students from local universities. It's an opportunity for participants to showcase and share their research with one another, a networking event and an opportunity to practice for national conferences and compete for prizes.

Anurodh Tripathi was selected to receive the 2019 Distinguished Graduate Dissertation Award from the College of Engineering. This is a significant accomplishment given that the college graduates approximately 180 students with doctorates per year. Kudos to Anurodh's Ph.D. co-advisors, Professors Saad Khan and Orlando Rojas.

Siyao Wang won the Technical Merit Award at the 2018 meeting of the Nonwovens Institute's Industrial Advisory Board for her research project, "Intrinsically Microporous Nonwovens." Co-advised by Dr. Parsons and Dr. Khan, Siyao works on processing and functionalizing a novel class of polymers characterized by intrinsic microporosity for applications in protective garments. Siyao also was the first place winner for microscopy in the graduate student/postdoc category of the 2020 Envisioning Research contest at NC State University for her image, "Glowing Neurons." Her image was featured in a digital exhibit at Hunt Library.

Jiaqi Yan won the Polymer Modifiers & Additives Division (PMAD) Challenge Award, a national technical writing competition hosted by the Society of Plastics Engineers (SPE). The PMAD Challenge is designed to encourage student members to participate in SPE activities as well as to promote scientific and engineering knowledge relating to plastics. The award

sponsors the participation of students in the Society of Plastics Engineers annual technical (ANTEC 2019, Detroit) conference to grow the students' education in polymer/plastics engineering. Jiaqi was selected to attend the National School on Neutron and X-ray Scattering. The competitive, all-expenses-paid, two-week program will be held at Argonne National Laboratory and Oak Ridge National Laboratory from June 15 to June 29, 2019. The program's goal is to educate graduate students on the use of major neutron and x-ray facilities in their research. It includes lectures presented by scientists from academia, industry and the government on scattering principles and the characteristics of sources, and seminars on the use of various scattering techniques. Students will also conduct four hands-on experiments at Argonne's Advanced Photon Source in Illinois, and at Oak Ridge's Spallation Neutron Source and High Flux Isotope Reactor facilities in Tennessee.



Liquid Metal Sunset

Taylor Neumann, Ph.D. '20

The oxide skin left after collapse of a eutectic gallium indium liquid metal and observed by optical microscopy.

Faculty News

Milad Abolhasani was promoted to associate professor with tenure effective August 16, 2021. He received a 2019 CAREER Award from the National Science Foundation for his proposal “Intelligent Synthesis of Colloidal Nanocrystals Enabled by Microreaction Engineering in Flow.” Milad also received a Goodnight Early Career Innovator Award. The Goodnight Award supports early-career faculty excellence and recognizes faculty whose scholarship clearly and substantively contributes to innovation and advancement in STEM or STEM education. He was elected in the 2020 cohort for an AIChE 35 Under 35 Award, which honors engineers under the age of 35 who have made significant contributions to the Institute and to the chemical engineering profession. He was also selected as a University Faculty Scholar in the 2020-21 cohort. Milad and his wife, Shiva, are the proud parents of a daughter, Emma, who was born on November 21, 2019. Emma joined the world at 7.6 lbs.

Lisa Bullard was elected as a Fellow of the American Institute of Chemical Engineers. She was also appointed associate editor of *Chemical Engineering Education*. Lisa received the inaugural Provost’s Award for Excellence in Teaching. The Provost’s Award for Excellence in Teaching is the most prestigious award for exceptional teaching given to professional full-time faculty from among NC State’s 10 colleges and the University College. The award was established in 2021 to underscore the importance of teaching and to encourage, identify, recognize, reward and support teaching within the university. The award comes with a \$12,500 cash prize.

Ruben Carbonell was elected as a Fellow of the American Association for the Advancement of Science.

Matt Cooper received the 2021 ASEE Southeastern Section Outstanding Mid-Career Teaching Award, the 2021 William H. Corcoran Award for best paper in the journal *Chemical Engineering Education* and the 2019 NC State Alumni Distinguished Undergraduate Professor Award (2019).

Joe DeSimone retired from UNC and NC State on September 1, 2020. He joined the faculty of Stanford University as professor in the Department of Radiology and Division of Molecular Imaging Program at the Stanford University School of Medicine, professor in the Department of Chemical Engineering and professor of the Stanford University Graduate School of Business.

Michael Dickey received a 2020 Alumni Association Outstanding Research Award at the 2020 Faculty Awards Ceremony hosted by the NC State Alumni Association at the Dorothy and Roy Park Alumni Center. Michael also received the inaugural Outstanding Faculty Mentor Award from the NC State Office of Undergraduate Research. The award honors “our gifted faculty mentors who are making

a difference in the lives of their students every day.” Future recipients will be presented with the Michael Dickey Outstanding Faculty Mentor Award – named after Dickey. Michael was inducted into the NC State Research Leadership Academy for outstanding research and mentorship. He was selected for the 2020 NC-ACS Distinguished Lecturer Award. The award is given annually to a member of the NC-ACS section who has made significant and recognized research contributions to the chemical sciences. The Distinguished Lecturer is the keynote speaker at the annual NC-ACS Local Section Conference each fall. Michael received the 2021 RJ Reynolds Award for Excellence in Teaching, Research and Extension. The RJR Award is the most prestigious award given by the College of Engineering, and it recognizes a career of excellence in scientific and educational achievements. Michael received the RJR Award and presented his award lecture on November 11, 2021. Michael has been appointed Camille and Henry Dreyfus Professor in the Department of Chemical and Biomolecular Engineering.

Peter Fedkiw was elected as a Fellow of the American Association for the Advancement of Science. Peter stepped down as department head after over 13 years of exceptional service.

Rich Felder was elected as a Fellow of the American Institute of Chemical Engineers. He was selected (along with his wife, Rebecca Brent) to receive honorary doctorates from Concordia University in Montreal, Canada, “for helping a generation of STEM instructors teach more effectively.” Rich and Rebecca received their awards at the Concordia 2019 fall convocation.

Michael Flickinger retired in 2018 and is now a professor emeritus. An internationally recognized expert in upstream industrial bioprocess technology, cell culture technology and biochemical engineering, Michael also served as the first Director of Academic Programs for the Golden LEAF Biomanufacturing Training and Education Center (BTEC).

Jan Genzer received the 2019 RJ Reynolds Award for Excellence in Teaching, Research and Extension. The RJR Award is the most prestigious award given by the College of Engineering and it recognizes a career of excellence in scientific and educational achievements. Jan received the RJR Award and presented his award lecture on October 29, 2019. Also, Jan received the 2022 Alumni Association Distinguished Graduate Professorship Award.

Hassan Golpour was appointed as an assistant teaching professor in CBE effective fall 2020. This appointment is a promotion from his former position as lecturer. Hassan’s major teaching responsibilities will be the unit operations laboratory courses, CHE 330 and 331.

Christine Grant received the William W. Grimes Award at the 2019 AIChE Annual Meeting in Orlando and was elected AIChE president for the 2022 term. She served as president-elect in 2021 and will serve as past-president in 2023.

Keith Gubbins received a 2019 Outstanding Global Engagement Award from NC State. The award recognizes Keith’s outstanding accomplishments in globally engaged teaching and research. He received the award at the Global Engagement Exposition on April 23, 2019. Keith retired effective December 31, 2020, having joined the department in 1997 as the Worley H. Clark, Jr. Distinguished University Professor in Engineering.

Carol Hall was elected to the rank of Fellow in the American Association for the Advancement of Science (AAAS). The citation for her fellow status reads, “For distinguished contributions to the field of thermodynamics using statistical methods and computer simulation methods to solve engineering problems involving macromolecules and complex fluids.” Carol was also elected Home Secretary of the National Academy of Engineering (NAE), effective July 1, 2020 for a four-year term. The Home Secretary oversees the Academy’s membership activities. Carol was selected to receive the Margaret H. Rousseau Pioneer Award for Lifetime Achievement by a Woman Chemical Engineer for 2020. This AIChE Institute Award is presented to a woman member of AIChE who has made significant contributions to chemical engineering research or practice. Hall received the award at the Honors Ceremony during the 2020 AIChE Annual Meeting in San Francisco, CA. Carol was appointed the Worley H. Clark, Jr. Distinguished University Professor in Engineering. Formerly, she was the Camille Dreyfus Distinguished University Professor.

Lilian Hsiao was awarded a 2019 Marion Milligan Mason Award for Women in the Chemical Sciences from the American Association for the Advancement of Science. The award is given to researchers who “have made extraordinary contributions through their research programs and demonstrate a commitment to move their fields forward.” Lilian also received a 2021 CAREER Award from the National Science Foundation for her proposal “Elastohydrodynamic Lubrication of Soft Patterned Interfaces.” Lilian received the 2021 American Chemical Society Unilever Award. The award recognizes the originality, creativity and potential impact of the work of an early career investigator in colloid or surfactant science. Lilian was named a 2022 Alfred P. Sloan Research Fellow. She also received a 2022 Camille Dreyfus Teacher-Scholar Award from the Camille and Henry Dreyfus Foundation, Inc. and was named a 2022 Goodnight Early Career Innovator.

Bob Kelly was awarded the 2021 Alexander Quarles Holladay Medal for Excellence from NC State, the highest academic honor that NC State can bestow. He also received the prestigious 2022 Amgen Award in Biochemical and Molecular Engineering.

Albert Keung received the 2020 ACS Synthetic Biology Young Investigator Award. This award, established in 2014, honors the contributions of a young scientist who has made a major impact on synthetic biology and/or related fields. Albert was selected as a University Faculty Scholar in the 2021-22 cohort and he received a CAREER Award from the National Science Foundation for his proposal “CAREER: A Synthetic Biology Platform to Map and Engineer the Diverse Epigenetic Space.” Albert was named a 2022 Goodnight Early Career Innovator and promoted to assistant professor, effective August 15, 2022.

Saad Khan was selected as a Fellow of the Society of Rheology in the 2020 cohort. The citation for his fellow recognition reads, “For his contributions to creating and applying rheological methods to materials well removed from the traditional polymeric melts and solutions for which such methods were originally developed; for his contributions to the rheology of complex fluids including foams, gels, associative polymers, paints, polymer-containing supercritical fluids, ‘black liquors’ containing pulp and fibers, fungal cultures, proteins, colloids, hydrogels and biological fluids.” He was inducted into the NC State Research Leadership Academy for outstanding research and mentorship.

Henry Lamb retired in June 2022 after 35 years at NC State. A CBE graduate (’82), Henry earned his Ph.D. in chemical engineering at the University of Delaware. His research interests included heterogeneous catalysis, surface science and biochemical engineering.

Fanxing Li received the 2020 Alcoa Foundation Research Achievement Award from the College of Engineering. He was appointed as an Alcoa Professor in the Department of Chemical and Biomolecular Engineering and selected as a 2021 Energy and Fuels Rising Star, one of only twenty-nine early- and mid-career researchers. Fanxing was also selected for a Humboldt Research Fellowship.

P. K. Lim announced his retirement effective August 5, 2021. He was a faculty member for 42 years, having joined the department in 1979. Lim directed the graduate research of 18 students, taught eight different CHE courses (including two undergraduate laboratory classes), and served as our Accreditation Board for Engineering and Technology (ABET) coordinator through two evaluation cycles.

Faculty News, Continued

Gregory McKenna was appointed Research Full Professor in 2021. Gregory was elected as a Fellow of the American Institute of Chemical Engineers as well as being elected as a Fellow of the Society of Rheology

Stefano Menegatti was promoted to the rank of associate professor with tenure effective August 16, 2020. He was selected as a University Faculty Scholar in the 2020-21 cohort. He received the 2021 Alcoa Foundation Research Achievement Award from the College of Engineering. The award recognizes outstanding research achievements during the preceding three years. “Stef” also received a Goodnight Early Career Innovator Award. The Goodnight Award supports early-career faculty excellence and recognizes faculty whose scholarship clearly and substantively contributes to innovation and advancement in STEM or STEM education.

Dave Ollis retired at the end of 2019. He came to NC State in 1984, his career spanning 35 years at the university. Previously, Ollis was at the University of California - Davis and Princeton University. David is the co-author of the textbook *Biochemical Engineering Fundamentals*, often used in biochemical engineering courses. His total professorial career spanned 50 years.

Steve Peretti received an NSF Director’s Award for Superior Accomplishment at an NSF ceremony on May 9, 2019. The citation reads: “For outstanding collaborative efforts ensuring excellence in pushing the scientific and ethical frontiers of ‘Understanding the Rules of Life: Building a Synthetic Cell’ as part of one of NSF’s 10 Big Ideas, potentially providing insight into the evolution of life on earth as well as extraterrestrial life.” Steve announced his retirement effective June 30, 2021, after a 35-year career at NC State. Steve directed the graduate research of 16 students and primarily taught CBE’s controls and senior design courses. Steve was sworn in as a program director at the National Science Foundation after retiring from NC State in 2021. He now manages a program in support of fundamental research related to biomanufacturing.

Balaji “Bala” Rao took the rank of professor in August 2019. Bala serves as the Golden LEAF Biomanufacturing Training and Education Center (BTEC) director of academic programs. In this role, Bala leads BTEC’s existing academic programs and the development of new programs and curriculum. He was named in the Class of 2022/23 Provost Faculty Fellows. Bala’s project, “Re-imagining Academic Credit,” aims to implement a framework for “milliCredit” courses — short courses that accrue academic credit less than one credit hour and are compatible with continuing education offerings. Such a framework will enable academic departments to develop flexible and innovative programs and seamlessly enable continuing education programs for lifelong learning opportunities.

Adriana San Miguel Delgadillo received the 2021-22 Interstellar Initiative on Healthy Longevity Early Career Investigator Award. Adriana and her husband, Fernando Garcia Menendez, announced the birth of their daughter, Laura, on February 14, 2021. She weighed 7 lbs 7 oz at birth. All are doing well and are very very happy. Brother Gabriel wants to hold her all the time.

Erik Santiso was promoted to the rank of associate professor with tenure effective August 16, 2020. Erik was selected as a University Faculty Scholar in the 2019-20 cohort. The program recognizes and rewards emerging academic leaders who demonstrate significant achievement and approximately twenty tenured or tenure-track faculty scholars are identified each year to receive this honor.

Sindee Simon was appointed CBE Department Head in July 2021. She won the 2019 SPE International Award and performs research on polymers and soft matter.

Richard Spontak was inducted into the NC State Research Leadership Academy for outstanding research and mentorship. Rich was also awarded the 2022 Holladay Medal for Excellence from NC State. This is the highest academic award at NC State, and Rich is the 7th member of the CBE faculty to receive this prestigious honor, joining Bob Kelly, Ruben Carbonell, Rich Felder, Hal Hopfenberg, James Ferrell and Vivian Stannett. Rich’s other recent awards include the 2022 Roy W. Tess Award from the ACS Division of Polymeric Materials: Science and Engineering, the 2021 International Association of Advanced Materials (IAAM) Researcher of the Year, a 2021 Tau Beta Pi Distinguished Alumnus Award, and he was the recipient of the 2022 International Award from the Society of Polymer Science, Japan (SPSJ), among others.

Orlin Velez was inducted into the NC State Research Leadership Academy for outstanding research and mentorship.

Qingshan Wei received a 2020 CAREER Award from the National Science Foundation for his proposal, “Smartphone-Based CRISPR Biosensor for Point-of-Care HIV Viral Load Testing.” He also received the Best Pivot to Online Teaching Award from the NC State College of Engineering in 2021. Qingshan was also highlighted in the December 2021 “Futures” issue of the AIChE Journal.

Phil Westmoreland was inducted into the NC State Research Leadership Academy for outstanding research and mentorship.

New Faculty

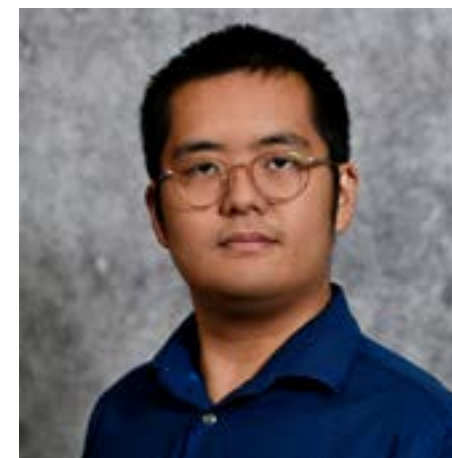
Wentao Tang

Assistant Professor - Fall 2022

Wentao was born in Hunan Province, P. R. China and received a B.S. degree in chemical engineering and a secondary B.S. degree in mathematics and applied mathematics from Tsinghua University in 2015. He earned a Ph.D. in chemical engineering at the University of Minnesota in 2020. He was a recipient of the Doctoral Dissertation Fellowship at the University of Minnesota for 2018-2019 and the 1st place winner of the AIChE CAST Directors’ Student Presentation Award in 2019. Prior to joining NC State, he worked as a process control engineer at Shell, where he undertook multiple research projects for the development of Shell’s advanced process control software.

Wentao’s current research focuses on developing data-driven control algorithms that integrate nonlinear control theory with machine learning techniques, which avoid detailed dynamic modeling procedures and can be more flexible for systems with complex dynamics. He is also interested in derivative-free algorithms for optimization problems without explicit algebraic models, especially in how the solution of large-scale problems can benefit from the identification of underlying network topology, decomposition of networks into constituent subsystems, and adoption of acceleration schemes.

“I am looking forward to launching my academic career at NC State, conducting exciting research with my future students and enjoying teaching courses as a part of my life. I hope that my expertise in process systems engineering - control, optimization and machine learning - will contribute to NC State’s prestigious chemical engineering program, bring useful perspectives and find interesting applications through extensive collaboration with my colleagues. I feel honored to become a member of the Wolfpack community and look forward to meeting you in Raleigh!”



Wentao Tang

Artem Rumyantsev

Assistant Professor - Spring 2023

Artem earned his M.S. (2013) and Ph.D. (2017) degrees in polymer physics from the Physics Department of Lomonosov Moscow State University, Russia. During his Ph.D., he was simultaneously working in DWI–Leibnitz Institute for Interactive Materials at RWTH Aachen University, Germany. In 2017, he moved to Pau, France, to work as CNRS postdoctoral researcher with Dr. Oleg Borisov and in cooperation with Dr. Ekaterina Zhulina. Prior to joining NC State, Artem was a postdoctoral fellow in the lab of Prof. Juan de Pablo at the Pritzker School of Molecular Engineering at the University of Chicago, where he was working in close collaboration with the experimental group of Prof. Matthew Tirrell.

Artem combines scaling theory, field-theoretic methods and coarse-grained simulations to explore the relationship between the polymer structure and the physical properties of the resulting materials. His research also deals with fundamental problems of polymer physics, including the biological context. Particular attention is paid to ionic polymers, such as polyelectrolytes and polyampholytes, in which the combination of long-range Coulomb interactions and connectivity of charges results in unique conformational and phase behaviors.

“I am thrilled to move to the Research Triangle area and become a member of the Wolfpack. The CBE Department at NC State has a unique collaborative atmosphere and strong team spirit. I am looking forward to starting multiple fruitful collaborations within the Department, which is recognized for outstanding research and scientific excellence, particularly in the area of synthetic and biological polymers I am working in.”



Artem Rumyantsev

CBE Distinguished Alumni Awards

This honor celebrates and recognizes the exemplary contributions our outstanding graduates have made to their profession, their community and their department, college or university.

To nominate an alum, visit www.cbe.ncsu.edu/alumni/distinguished-alumni-page to complete the nomination form or email Russ O'Dell at russ_odell@ncsu.edu.

2018



Harry "Hal" Lawton '96
President
Macys



Tracy Proctor Mustin '84
Principal Deputy Assistant
Secretary for Environmental
Management
U.S. Department of Energy



Richard B. Phillips
B.S. '64, M.S. '66, Ph.D. '70
Vice President - Technology
International Paper



Ronald C. Zumstein Ph.D. '87
Senior Vice President
Manufacturing, Supply Chain
and Process Excellence
Albemarle Corporation



Srinivas Siripurapu
M.S. '00, Ph.D. '03
Distinguished Young Alumni
Senior Vice President
Chief R&D Officer
Prysmian Group

2019



Quint M. Barefoot '85
Managing Partner - Zappa
Stewart
President - Four Seasons
Environmental



John W. Earnhardt, Jr. '63
Global Strategy Manager -
DuPont
President - Pro Services



Ronald B. McNeill '73
Vice President
Liberty Healthcare Group



Stacey G. Orlandi '94
Vice President
Production Excellence
Shell



Jeffrey Millman '05
Distinguished Young Alumni
Assistant Professor
Washington University
School of Medicine

2020



Daryl L. Caudle '85
Vice Admiral, Commander
Submarine Forces
U.S. Navy



Ana P. Davis '91
Head - Health, Safety, and
Environmental
North America
Syngenta



Marcus L. Martin, Sr. '71
Vice President and Chief
Officer for Diversity
and Equity
University of Virginia



Milton G. Williams
BS '61, Ph.D. '65
Vice President and Technical
Director
Freudenberg Performance
Materials



Christopher Shaul '05
Distinguished Young Alumni
Plant Manager
DuPont

2021



Greg Hatem '85
CEO
Empire Properties



Michael W. Lowder '78
Director
Process Engineering
Eastman Chemical



Stephenie L. Robertson '95
Vice President - Operations
Fujifilm Diosynth Biotechnologies



William B. Thompson, Jr. '78
President
Franklin Street Partners



Elizabeth A. Nance '06
Distinguished Young Alumni
Bindra Associate Professor
University of Washington

Alumni Highlights

Daryl Caudle ('85) was promoted to the rank of four-star admiral in the U.S. Navy in December 2021. Only four active-duty admirals serve in the field at any given time. Daryl attended Officer Candidate School in Newport, RI, following his B.S. degree and was commissioned in the U.S. Navy. He has held multiple officer positions including division officer of USS George Washington Carver, engineer officer of USS Stonewall Jackson and USS Sand Lance, executive officer of USS Montpelier, and commanding officer of USS Jefferson City, USS Topeka and USS Helena. Starting in 2007, Daryl has held several positions of increasing responsibility including assistant deputy director for information and cyberspace policy for the Joint Staff, commander of Submarine Squadron 3, chief of staff for Commander Submarine Force, deputy chief for Security Cooperation, deputy commander for JFCC - Global Strike, and deputy commander for the U.S. 6th Fleet. In 2019, Daryl was named commander of the submarine force for the U.S. Pacific Fleet, and vice director of strategy, plans and policy for the Joint Staff. He has earned several degrees: an M.S. in physics, an M.S. in engineering management and a Ph.D. of management in organizational leadership.

Steffanie Easter ('85) has been a member of the Senior Executive Service of the federal government since 2002, and assumed responsibilities as the Director of Navy Staff in June 2018. In her role as director, she serves as the senior Chief of Naval Operations (OPNAV) civilian and coordinates enterprise-level efforts across the entire OPNAV staff. This includes providing support to the Chief of Naval Operations and the Secretary of the Navy along with responsibility for more than 400 flag officers and senior executives. Steffanie makes time to mentor CBE students and has been a speaker for CBE's senior design class. She was the alumni speaker at CBE's 2017 spring commencement ceremony. She makes annual financial contributions to the College of Engineering. In recognition of her professional accomplishments and contributions to NC State, Steffanie was named a CBE Distinguished Alumnus in 2017.

Gary Gilleskie ('86) was named executive director of the Golden LEAF Biomanufacturing Training and Education Center (BTEC), part of the College of Engineering and located on NC State's Centennial Campus. BTEC is a cross-disciplinary instructional center that provides educational and training opportunities to develop skilled professionals for the biomanufacturing industry. It also provides bioprocess development and analytical services to a wide range of customers from academia and industry. Following his graduation from NC State, Gary earned a Ph.D. in chemical engineering from the University of Minnesota. He started his career at Bayer Corporation as a process development scientist. Gary then went to Diosynth Biotechnology and moved up the ranks from senior scientist of technical services to manager of purification

manufacturing to associate director of manufacturing sciences to become senior director of downstream manufacturing and process development. He came to BTEC in 2008 and has had several roles including associate director of process development and director of operations.

Greg Hatem ('85) was inducted into the Raleigh Hall of Fame's 2019 Class. Through his companies, Empire Property and Empire Eats, Greg has preserved and repurposed dozens of properties throughout downtown Raleigh. The company owns and manages 41 downtown Raleigh properties that offer a range of office, retail and restaurant space. His restaurants include Gravy, Sitti, The Pit, Raleigh Times Bar, Morning Times and Mecca. After graduating in 1985 Greg started out as a financial advisor at American Express and he ran his father's retail clothing business in Roanoke Rapids. Greg then headed to China to visit his uncle and ended up working in the commercial construction business. During this time he earned a diploma in Chinese studies from Beijing Youth Politics College. Greg returned to Raleigh and landed a job with the North Carolina Department of Commerce working in international trade. In 1995 he acquired his first building in downtown Raleigh, doing a complete renovation and starting a restaurant business. Thus started Empire Properties with his vision to preserve and enhance the character of downtown Raleigh.

Hal Lawton ('96) was named president and CEO of Tractor Supply Company and is a member of the company's Board of Directors. Tractor Supply is ranked 294 on the Fortune 500 list of the largest corporations in the United States. It has more than 1,900 stores in 49 states and has more than 40,000 employees. Hal completed a dual major in 1996 with a B.S. in pulp and paper technology. After graduation he started as a process engineer at the Champion International paper mill in Roanoke Rapids. Two years later he was accepted into the UVA Darden School of Business and earned an MBA in 2000. He spent the next five years at McKinsey & Co., focusing on strategy, sales and marketing, and mergers and acquisitions. In 2005 Hal joined Home Depot and spent the next 10 years in various leadership roles, ultimately becoming senior vice president for merchandising. He was responsible for accelerating the growth of Home Depot's online business and growing it to nearly \$2 billion. From 2015-2017 Hal was senior vice president of eBay North America. In that role he oversaw 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. Hal was named president of Macy's in September 2017. As president, he had responsibility for all aspects of the Macy's brand, including merchandising, marketing, stores, operations, technology, and consumer insights and analytics.

Yang Luo (Ph.D. '94) was named senior director, process technology for advanced materials at Honeywell. In this role she has responsibility for development of new chemical processes and scale-up of fluorine products, fine chemicals, additives, films and fibers for pharmaceutical, refrigeration and semiconductor markets. Yang came to the United States after earning a B.S. in chemical engineering from Zhejiang University in China. She started her career at International Paper in Erie, PA, then worked at Delphi in Lockport, NY. Yang then joined Praxair, now Linde, in Tonawanda, NY, where she ultimately became head of adsorption and membrane plants, Americas. She took management programs at Northwestern University's Kellogg School of Management and MIT's Sloan School of Management. Yang has served with AIChE's RAPID Manufacturing Institute for the last four years, most recently as chair of the governing board.

Stephenie Robertson ('95) was named vice president of operations at Fujifilm Diosynth Biotechnologies at Research Triangle Park, NC. In this role she is responsible for directing and overseeing all aspects of engineering, facilities, supply chain and EHS departments. Fujifilm Diosynth Biotechnologies is a contract development and manufacturing organization providing process development and manufacturing of biologics. They have expertise in cell culture, microbial fermentation and gene therapies. After earning a B.S. chemical engineering degree, Stephenie had a four year stint as an engineer officer in the U.S. Army. She then went to the University of South Florida where she earned an M.S. in chemical engineering. She started her industrial career at Ajinomoto Amino Science as a process engineer and moved into leadership positions as a separation department supervisor and then as head of production. Stephenie then went to Novartis Vaccines and Diagnostics where she moved through several management roles in manufacturing and quality assurance, ultimately becoming director of quality. Finally Stephenie went to Fujifilm Diosynth Biotechnologies as senior director of operations of engineering and supply chain.

Carl Stutts, Jr. ('68) currently serves as an advisor at Oaktree Capital Management, a financial services company that specializes in alternative investment strategies. He has served on the boards of HydroChem Industrial Services, Resolution Performance Products and Osmose. Carl started his illustrious career as a production engineer at Union Carbide in Texas City, TX. He then spent 17 years at Tenneco, rising through the management ranks to become a corporate vice president. Along the way, he received an MBA from the University of Houston. Carl transitioned to Columbine Venture Funds for 10 years where he became a general partner. He then spent 6 years as president and CEO of Texas Petrochemical Holdings, a company based in Houston, TX, which is involved in refining and processing petrochemicals. The company's primary products include butadiene -

principally used to produce synthetic rubber, butene-1, used for manufacturing of plastic resins, fuel additives and synthetic alcohol. Next, he moved to Celerant Consulting, an international management and technology consulting firm with headquarters in Dallas, TX. For the past 12 years, Carl has served as CEO and now chairman of Cyanco, a leading global supplier of sodium cyanide for gold mining. He currently serves on the board of the NC State Engineering Foundation. In recognition of his professional accomplishments and financial contributions to NC State, Carl was named a CBE Distinguished Alumnus in 2016.

John Weidner (Ph.D. '91) was named dean of the College of Engineering and Applied Science at the University of Cincinnati in 2019. The college has seven departments, 127 full-time faculty and 1,200 students. John came to NC State after earning a B.S. degree in chemical engineering from the University of Wisconsin-Madison. His Ph.D. work was performed under the direction of Peter Fedkiw. John joined the chemical engineering faculty at the University of South Carolina after defending his thesis. He was promoted to full professor in 2004 and was named Campaign for Excellence Professor of Chemical Engineering in 2009. John served as department chair from 2011 until 2019, capping off a 28-year career. During his time at USC he did three sabbaticals: visiting scholar at UC Berkeley, visiting scientist at Los Alamos National Laboratory and visiting scientist at Fraunhofer-Gesellschaft in Freiburg, Germany. John was elected as a Fellow of the American Institute of Chemical Engineers and the Electrochemical Society.



Chris Cooper '17

"NC State is an elite university. In my mind, the mark of a quality university is the ability to prepare its students for their next steps. I was fully prepared when studying at both Cambridge and Stanford as a direct result of the educational foundation I built during my time at NC State."

Alumni Notes

Frank Culberson ('60) was awarded the Watauga Medal at the 2019 Founders' Day Dinner. The Watauga Medal was established in 1975 by the Board of Trustees to honor people who have made significant contributions to the advancement of the university.

Marcus Martin ('71) was named a Distinguished Alumnus of the College of Natural Resources.

Jerry Spivey ('72) received the Organic Reactions Catalysis Society's Murray Raney Award, which is presented to scientists who have made outstanding contributions in the use of base metal catalysts in organic synthesis. The award consists of a \$5,000 honorarium, a plaque and up to \$2,000 for travel expenses to attend the ORCS biennial conference to receive the honor. Jerry is a professor in the Department of Chemical Engineering at LSU.

Mark Hurley ('81) was named president and CEO at Explorer Pipeline in Houston, TX.

Brian Tiffany ('83) joined Jedson Engineering in Greenville, SC, as a senior project manager.

Mary Kathryn Lee (M.S. '84) was elected as an AIChE Fellow. Mary is a senior engineer at ExxonMobil Corporate Strategic Research, where she has designed and built laboratory-scale analytical units to make novel liquid and gas separation experimental measurements. She served as an AIChE director from 2017-2019 and she received AIChE's Award for Service to Society in 2020 for her dedication to advancing underrepresented groups in the STEM professions.

Theresa (Mooney) Freeman ('85) joined TechLab as a sales director. Headquartered in Blacksburg, VA, TechLab develops and manufactures diagnostic tests for intestinal diseases.

Theresa (Parker) Zook ('85) was named regional manufacturing project manager at Mars Petcare in Henderson, NC.

Lisa (Gardner) Bullard ('86) was selected as a Fellow of the American Society for Engineering Education (ASEE). The grade of Fellow recognizes an ASEE member with outstanding and extraordinary qualifications and experience in engineering education, who has made important contributions to engineering education, as well as considerable contributions to ASEE. Lisa received the award on June 19, 2019, at the ASEE Annual Conference Awards Luncheon.

David Johnson ('86) was named vice president of global operations at Cariflex..

Doug Schartz ('86) was named president of the Raleigh Division of KB Home. He is responsible for the company's homebuilding operations across the Raleigh and Durham markets, from land acquisition and construction, to sales and customer service.

Tom Sidbury ('86) retired from Johnson & Johnson as vice president, facilities management – Americas. He and his family have relocated from Clinton, NJ, to Hampstead, NC.

Roger Whitley ('86) was elected as an AIChE Fellow. Roger is the Distinguished Engineer for Standard Products Technology at Air Products, where he leads programs to develop new adsorbents and processes for improving adsorption-based gas separation and purification processes. He served as chair of the separations division in 2018.

Thad Leister ('87) earned an Ed.D. at UNC-Wilmington in December 2018. The title of his dissertation was "Internships: The Real-Life Interview." Thad is the global operations manager at GE Hitachi Nuclear in Wilmington.

Helene (Gassen) Lollis ('87) was named to the 2019 Academy of Women Achievers by the YWCA in Atlanta, GA. Each year at the YWCA annual spring event, Salute to Women of Achievement, they celebrate dynamic women leaders throughout Georgia who embody their mission to eliminate racism and empower women by inducting them into our YWCA Academy of Women Achievers.

Scott Warlick ('87) was named vice president of manufacturing at Benuvia Manufacturing in Round Rock, TX.

Charles Wells ('87) took a job with the Bill & Melinda Gates Medical Research Institute as clinical development leader for therapeutics.

Chase Willett ('87) was named executive director of Americas sales at Chemical Market Analytics by OPIS (Oil Price Information Service).

Karen Burg ('90) received a NSF Presidential Award for Excellence in Science, Math and Engineering Mentoring. Karen is the Harbor Lights Endowed Chair & Professor and vice president for research at the University of Georgia.

Janine Carlan ('90) was named a partner in the ArentFox Schiff law firm.

Ana Davis ('91) was elected to the AIChE Board of Directors to serve a three year term from 2019-2021. Ana received an Eminent Engineer Award from the AIChE Minority Affairs Committee at the 2019 national meeting in Orlando.

Anita Jones ('91) was named plant manager of the Linde-Praxair site in Texas City, TX.

Jeff Harris ('92) was named vice president and general manager for Delek US Holdings' Refinery in Tyler, TX.

Michael Britt ('93) was promoted to senior director of R&D – Europe for Procter & Gamble.

David Driscoll ('93) is CEO and founder of DD Research LLC, an equity firm he started in 2019.

Brian Emanuel ('93) was promoted to vice president at Climashield.

Samuel Jacobs ('93) was named director of engineering at Fujifilm Diosynth Technologies in Morrisville, NC.

Stewart McNaull ('93) was named business head, vaccines and biologics franchise at Resilience.

Chris Peoples ('93) was promoted to chief engineer for the North Carolina Department of Transportation.

Chris White ('93) Joined the Wooten Company in Raleigh as a senior project manager.

Amy (Parker) Marshall ('94) was named technical director at ALL4 in Morrisville.

Stacey (Guard) Orlandi ('94) was named senior vice president of manufacturing at Chevron Renewable Energy Group.

Dave Sehgal ('94, M.S. '99, Ph.D. '02) was named site head and head of manufacturing at Seqirus.

Billy Bardin ('95) was named global digitalization director at Dow, Inc. He is responsible for ensuring the development of a digital strategy to realize the vision of Digital Dow and the end-to-end connectivity necessary to make it a reality, including leadership for the Dow Operations Manufacturing 4.0 program. He leads efforts to explore, evaluate and implement emerging and next generation digital technologies that are required to maintain and improve Dow's competitive position. Billy is president-elect of AIChE.

Samuel Boyce ('95) was named project director at i-Solutions in Wilmington, NC.

Andy Shiflett ('95) joined Jacobs as a lead process engineer / section lead.

John Wolf ('95) was named division president of Spectrum Plastics Group.

Stuart Thomas (Ph.D. '96) was promoted to senior vice president – operations at Veolia North America.

Tim Fornes ('97) was promoted to technology fellow at Parker Hannifin (formerly LORD Corporation). Tim is chairman of the SAE International Battery Adhesives, Sealants and Heat Transfer Materials Committee.

Phil McCarter ('97) was named chief operating officer at Nation Ford Chemicals in 2019. He previously served as vice president for 12 years. His responsibilities include plant operations and technical management, toll manufacturing contracts, environmental, health, safety and sustainability, and HR legal affairs.

Michael Gatling ('99) started Gatling Law Firm, PLLC in Madison, MS. He specializes in insurance coverage, personal injury and civil litigation.

Emily Martin ('99) was appointed director, portfolio procurement, at Clayton, Dubilier & Rice effective February 18, 2020. She has responsibility for the supply chain and procurement at the firm's portfolio companies. Clayton, Dubilier & Rice is a private investment firm. Since inception, CD&R has managed the investment of \$30 billion in 89 companies with an aggregate transaction value of approximately \$140 billion. The firm has offices in New York and London.

Michelle (Staben) Wobker ('99) joined Precision BioSciences, Inc. as the director of CMC program management.

Gary Pelletier ('99) was promoted to associate principal scientist, group leader, at Fujifilm Diosynth Biotechnologies.

Paul Yelvington ('99) was appointed as chief technology officer of the RAPID Manufacturing Institute beginning April 22, 2019. He will be responsible for overseeing the current portfolio of research projects and maintaining the institute's technology roadmap, exploring new technology areas where PI and modular processing can have the greatest impact and helping grow RAPID's membership base. His appointment as CTO further ensures that RAPID will continue to meet its commitments both to its membership and to the Department of Energy.

Justin Brown ('00) was named vice president of operations at X Display Company (XDC).

Patrick Murphy ('01) started a new position as quality manager for General Dynamics Mission Systems in Greensboro, NC.

Dominika Wiktor-Brown ('01) was promoted to field vice president, Benlysta, at GlaxoSmithKline.

Alumni Notes, Continued

James Wright ('01) was named associate director, global engineering, at Biogen.

Tomás Carbonell ('02) was named Deputy Assistant Administrator for Stationary Sources in the Office of Air and Radiation at the U.S. Environmental Protection Agency. Tomás is one of the nation's leading Clean Air Act experts – protecting human health and the environment and advancing climate progress.

Eric Blanchone ('04) was promoted to associate director, quality assurance, at the Merck pharmaceutical plant in Durham.

Mike Swanson ('04) joined MÜNZING, North America as an environment, health and safety manager.

Andrew McAllister ('05) was promoted to inventory, synchronization and service director – global oral care at Procter & Gamble.

Jeff Millman ('05) was named a 2021 Cellular and Molecular Bioengineering (CMBE) Rising Star by the Biomedical Engineering Society. The Rising Star Awards recognize a select group of exceptional junior principal investigators that have demonstrated research excellence. In 2021 Jeff was promoted to associate professor of medicine and biomedical engineering at Washington University School of Medicine in St. Louis.

Gina (Hicks) Faust ('06) was promoted to managing consultant at Trinity Consultants.

Meghan Howard ('06) was promoted to senior manufacturing planning manager at Fujifilm Diosynth Biotechnologies.

Elizabeth Nance ('06) received a 2019 Presidential Early Career Award for Scientists and Engineers. The PECASE award is the highest honor our country bestows on scientists and engineers who are at the beginning of their independent research career. In addition she received the 2019 Junior Faculty Award and the 2019 Undergraduate Research Mentor Award from the College of Engineering at the University of Washington.

Hunter Plemmons ('06) was elected clerk of court in Waynesville.

Corey Allen ('07) was promoted to lead customer marketing specialist at Honeywell.

Melissa Bebb ('07) was promoted to manager, health industries advisory, at PriceWaterhouseCoopers in Chicago.

Nathanial Dick ('07) took a position as business development manager at the Economic Development Partnership of North Carolina, a non-profit organization management entity that supports business growth, international trade and tourism in North Carolina.

Kristen Krupa-Comfort (Ph.D. '07) was named head of the Department of Chemical and Materials Engineering at the University of Dayton. In addition, Kristen was appointed as the Dr. and Mrs. Charles Wilke Distinguished Professor and Chair in Chemical and Materials Engineering.

Brandon Fincher ('07) was promoted to chief strategy officer at Cambrex.

Shannon Manning ('07) joined Fujifilm Diosynth Biotechnologies as a manufacturing process technical services end user representative.

Thomas Medlin ('07) was promoted to toll production manager at Syngenta.

Thomas Sinodis ('07) was named pharmacy director at NC State.

Sarah (Trexler) Gould ('08) joined Umoja Biopharma as associate director, manufacturing sciences and technology.

Kendall (Liner) Buchanan ('08) completed a dermatology residency at the Medical College of Georgia in North Augusta, SC (Augusta University). She is now a practicing dermatologist at Augusta University Health in Aiken, SC.

Sid Subramanian ('08) has taken a position as vice president - wholesale risk at Wells Fargo in Charlotte.

Stephanie (Goss) Yonce ('08) was promoted to senior business unit director at KaVo Kerr.

Kate Auernik (Ph.D. '09) was named head of technical operations - validation, at Pfizer in Morrisville.

Robert Bradley ('09) joined Enviva in Bethesda, MD, as a project development senior associate.

Dacie Edwards ('09) joined Thermo Fisher Scientific in Greenville as a senior manager of project engineering.

Mary (Guthrie) Leedy ('09) joined Zymergen in Seattle, WA, as associate director quality- healthcare/consumer care programs.

Adam Leedy ('09) was promoted to director, global manufacturing sciences & technology at Bristol Myers Squibb in Seattle, WA.

Zach Nicholson ('09) joined VME in Tyler, TX, as director of client services. VME helps energy companies by supplying process systems, modular equipment, surface facilities, engineered solutions, separation products and aftermarket services.

Kim (Shearer) Soltmann ('09) joined Curebase in San Diego, CA, as director of business development.

Garrett Swindlehurst ('09) was promoted to associate principal ITQ engineer at General Mills in Minneapolis, MN.

Sarah Tweed ('09) was promoted to global sales manager at Milliken Chemical.

Laura (Navolio) Watkins ('09) took a job with Novartis Gene Therapies in Durham as a process engineer.

Christine Watson ('09) received a M.S. in chemical engineering at Oklahoma State in August 2021.

Murat Cirit (Ph.D. '10) is the CEO and a co-founder of Javelin Biotech in Woburn, MA.

Courtney (Fox) Converse ('10) was promoted to materials engineering program manager at Carbon, a company that manufactures and develops 3D printers.

Christian Estes ('10) earned an MBA from East Carolina University. Christian is a lead process engineer at IPS-Integrated Project Services in Morrisville.

Matt Gebbie ('10) was appointed Conway Assistant Professor of Chemical and Biological Engineering at the U. of Wisconsin-Madison.

Alex Majeska ('10) received an M.S. in clinical research and product development from UNC-Wilmington in May 2022.

Adam Melvin (Ph.D. '10) received an NSF CAREER Award. The CAREER award is NSF's "most prestigious award 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." Adam is an assistant professor of chemical engineering at LSU.

Amanda (Vorenkamp) Scott ('10) joined Hologic as a senior program manager in Marlborough, MA.

Jennifer (Gowen) Biggs ('11) was named CEO of Ampogee, a Greensboro company which developed a cloud-based performance management platform.

Erik Bolch ('11) earned an M.S. degree in environmental systems at the University of California – Merced.

Lane Daley ('11) was promoted to senior bakery sustainability project manager at Clif Bar & Company in Twin Falls, ID.

Ty Hicks ('11) was named plant manager at ARRIVAL in Charlotte. Previously he was senior operations manager at GE Aviation in Jacksonville, FL.

Colleen (Fesler) Hagopin ('11) received an M.D. from Wake Forest in May 2022.

Zan Haywood ('11) was promoted to technology manager at Celanese.

Charlotte (Cooper) Holmes ('11) was named senior director, program management office, at Landmark Bio.

Charles Jones ('11) was named senior manager - U.S. marketing - adult pneumococcal franchise at Pfizer.

Greg Riehle ('11) was promoted to manager – process engineer at Process Design Solutions in Waltham, MA.

Emmanuella Sebeey ('11) joined Intertape Polymer Group in Blythewood, SC, as their quality assurance manager.

Sydne (Folger) Stone ('11) was promoted to renewables asset manager at Duke Energy in Charlotte. Sydne earned an MBA from Wake Forest University School of Business in 2019.

Ermias Bizuwork ('12) was named project manager at Home Depot in Atlanta, GA.

Justin Borchers ('12) joined Fujifilm Diosynth Biotechnologies in College Station, TX, as a manufacturing support manager.

Gordon Brezicki ('12) earned a Ph.D. in chemical engineering from the University of Virginia in 2020. Gordon is a scientist at On Demand Pharmaceuticals in Rockville, MD.

Dominic Brown ('12) was named commercial excellence director at Albemarle Corporation in Houston, TX.

Aaron Dancy ('12) earned an MBA from the University of Alabama in 2018. Aaron is an engineering specialist at Merck in Durham.

John Garner ('12) was named head of process for drug product and finished goods manufacturing at Fujifilm Diosynth Biotechnologies in Holly Springs.

Zachary Hart ('12) was promoted to senior project engineer at Fresenius Kabi USA in Wilson.

Alumni Notes, Continued

Eva Haynes ('12) received a B.S. in computer science from Oregon State in December 2021.

Deidra (Dunn) Jones ('12) was named operations manager at Revlon in Oxford.

Jordan Keith ('12) earned a Ph.D. in chemical engineering from the University of Texas-Austin and joined Dow Chemical in Freeport, TX, as a senior research specialist.

Daniel Kim ('12) started a new job as a senior software engineer at Salesforce in San Francisco, CA.

Amir Lyall ('12) was promoted to solutions architect for small - medium businesses at SAS in Cary.

Meghan McCann ('12) received a Ph.D. in chemical engineering from the University of Minnesota in 2021.

Dan Minkler ('12) received an M.S. in analytics from NC State in May 2022.

Madison Barefoot ('13) earned an MBA from the London School of Business in 2019. She is a senior sales executive at IHS Markit supporting oil, midstream, downstream and chemicals.

Lauren Cagley ('13) earned an MBA from the Wharton School at the University of Pennsylvania. She joined Bain & Company in Austin, TX, as a consultant.

Andrew Crothers ('13) earned a Ph.D. in chemical engineering from the University of California, Berkeley. He is a senior dynamics and controls engineer at Boston Metal in Woburn, MA.

Jessica Ewy ('13) was promoted to technical program manager and partner at Casne Engineering in Bellevue, WA.

Kyle Goodman ('13) received an M.D. from the University of Texas Southwestern in May 2022.

Isaac Kichak ('13) was promoted to design engineering manager at Enviva in Raleigh.

Ying Liu (Ph.D. '13) was named technology scout at Cornerstone Building Brands in Durham.

Steven Mazur ('13) was named as one of Forbes "30 Under 30." Steven and co-founder Eric Huang founded Ash & Erie in 2015 with a signature shirt tailored for men 5'8" and below. The Detroit-based brand appeared on Shark Tank, where Mark Cuban offered them a \$150,000 investment. The first-time founders expect to pull in more than \$1 million in sales for 2018.

Brinda Monian ('13) earned a Ph.D. from MIT in 2019. She is a bioinformatics scientist with Generate Biomedicines in Cambridge, MA.

Quin Nelson ('13) was promoted to process technology senior associate at Pfizer.

Katie Payne ('13) was promoted to industrial water treatment customer service supervisor at Solenis in Wilmington, DE. In addition, she completed an M.S. from Johns Hopkins University in environmental science and policy in 2021.

Thea Roper ('13) received an M.S. in business analytics from Drexel University in 2021.

Ezinne Achinivu (Ph.D. '14) joined the faculty at the University of Illinois Chicago as an assistant professor of chemical engineering.

Julie Boyles ('14) was promoted to projects and plant design group leader at Eastman Chemical in Kingsport, TN.

Shivalik Daga ('14) joined Blue Cross and Blue Shield as a data science product manager.

Cathy Fromen (Ph.D. '14) was selected in the 2020 cohort for an AIChE 35 Under 35 Award, which honors engineers under the age of 35 who have made significant contributions to the institute and to the chemical engineering profession.

Andi (Hawksley) Huffman ('14) was named senior production engineer at Mallinckrodt Pharmaceuticals in Raleigh.

Neil Quinn ('14) received his MBA from Georgia Southern University in May 2022.

Scott Strednak ('14) received a Ph.D. in chemical engineering from the University of Florida.

Mike Burroughs ('15) received a Ph.D. in chemical engineering from the University of California Santa Barbara in August 2021.

Victoria Hunt ('15) received a Ph.D. in chemical engineering from the University of Delaware in September 2021.

Rashed Khan (Ph.D. '15) was appointed an assistant professor of chemical engineering at the University of Nevada - Reno.

Kasey Koballa ('15) joined the Kilpatrick Townsend law firm in Raleigh. She is a registered patent attorney who focuses her practice on patent litigation matters.

Elliott Locke ('15) joined Eli Lilly as a senior scientist in technical services / manufacturing sciences.

Moataz Mousa (Ph.D. '15) was promoted to senior R&D manager, ALD process technology at ASM America in Phoenix, AZ.

Joseph Moo-Young ('15) earned an M.D. degree from UNC-Chapel Hill. He is a resident at Vanderbilt University Medical Center.

Chase Pfendler ('15) was promoted to quality manager at Honeywell in Colonial Heights, VA.

Alaa Rashid ('15) was promoted to manufacturing supervisor at Biogen.

Cydney (Anderson) Rehtin ('15) earned an M.S. in data analytics from Georgia Tech in 2019. She is CEO & founder of Creative Attaché.

Aaron Rozelle ('15) received his Ph.D. in chemical engineering from the University of Texas at Austin in December 2021.

Jared Saintsing ('15) was promoted to reliability manager at Evergreen Packaging in Canton.

Laura (Sandtner) Chamberlain ('15) was named senior business development executive at Patheon / Thermo Fisher Scientific.

Trevor Sherrill ('15) joined Biogen as senior engineer for global automation and manufacturing systems.

Hunter Simpson ('15) received a Ph.D. in biosystems engineering from the University of Minnesota in 2022.

Grant Thomas ('15) received a Doctor of Osteopathic Medicine degree from Campbell University in May 2022.

Brittany Besser ('16) earned a J.D. from the William & Mary School of Law in 2019. Brittany is an attorney for the Pipeline and Hazardous Materials Safety Administration in Washington, DC.

Cory Cregan ('16) received a Master's of Engineering in engineering management from the University of Louisville in 2019.

John Frady ('16) was promoted to staff engineer at Eastman Chemical in Kingsport, TN.

Kalyani (Joshi) Yamarthy ('16) received a J.D. degree from George Washington University in May 2022.

Emily McGuinness ('16) received a Ph.D. in materials science and engineering from Georgia Tech in August 2021.

Katie Nagley ('16) received J.D./MBA degrees from Kellogg School of Management at Northwestern University in May 2022.

Christianna (Carter) Neal ('16) was promoted to CS sales executive at Apptio.

Cailean Pritchard ('16) received a Ph.D. in chemical engineering from Virginia Tech in September 2021.

Jeffery Redpath ('16) returned from Thailand and took an engineering job with Avioq in Research Triangle Park, NC.

Hannah Taylor ('16) joined Pfizer as a quality assurance associate.

Chiuwen Thor ('16) joined SCL Carbon as a process engineer in Valencia, CA.

Megan Boland ('17) received a Ph.D. in biological and agricultural engineering from NC State in December 2021.

Waan Chalukham ('17) received an M.S. in chemical engineering from LSU in May 2022.

Chris Cooper ('17) received a National Defense Science and Engineering Graduate (NDSEG) Fellowship. NDSEG Fellowships are awarded to U.S. citizens or nationals trained in disciplines of science and engineering of interest to the U.S. Department of Defense. He's currently a Ph.D. graduate student in chemical engineering at Stanford.

Steven Denny ('17) received a Ph.D. in chemical engineering from Columbia University in September 2021.

Mark Gallo ('17) was promoted to assistant district engineer at the NC Department of Transportation.

Rachael Guenter ('17) received a Ph.D. in biomedical sciences - cancer biology from the University of Alabama at Birmingham in May 2021.

Wil Hoffmann ('17) received a Ph.D. in physics at the University of Bristol in March 2022.

Sam Jasper ('17) received an M.S. in analytics from NC State in May 2022.

Parizat Ghini (Aini Palizhati) ('17) received a Ph.D. in chemical engineering from Carnegie Mellon University. She is a consultant at BCG (Boston Consulting Group).

Stephanie Pribonic ('17) joined Istari Oncology as CMC supervisor.

Deepti (Srivastava) Tilly (Ph.D. '17) joined Meta (the parent organization of Facebook, Instagram and WhatsApp) as a data scientist.

Alumni Notes, Continued

Heather Starkey ('17) received a Ph.D. in forest biomaterials from NC State in May 2022.

Clarisa Wilson ('17) joined Amazon in Charlotte as an area manager.

Sean Engels ('18) was awarded an NSF Graduate Research Fellowship. Sean is pursuing a Ph.D. in chemical engineering at UT Austin.

Josh Ewy ('18) received his M.D. from UNC-Chapel Hill in May 2022.

Jacob Jacobs ('18) received his M.S. in biomanufacturing from NC State in May 2022.

Nikki McArthur ('18) was awarded an NSF Graduate Research Fellowship. Nikki is pursuing a Ph.D. in chemical engineering at Georgia Tech.

Rachel Scroggins ('18) received an M.S. in environmental health from Johns Hopkins University in May 2022 and was named an ORISE Fellow at the U.S. Department of Energy (DOE).

Yogiraj Shetty (M.S. '18) was promoted to senior process engineer at Clariant.

Charles McGill ('19) was appointed as an assistant professor of chemical engineering at VCU.

Sara Bartczak ('19) was promoted to district sales representative at Nalco Water in Washington, DC. She received her MBA from the University of Maryland in 2022.

Brett Burns ('19) received an MBA from Longwood University in May 2022.

Alex Kramer ('19) received an M.S. in analytics from NC State in May 2022.

Billy Marx ('20) received an M.S. in microbial biotechnology from NC State in May 2022.

Rosalynn Phan ('19) received an M.S. in systems engineering from the University of Virginia in May 2022.

Julia Tan ('20) received an M.S. in biomanufacturing from NC State in May 2021.

Emily Barefoot ('21) received an M.S. in biomanufacturing from NC State in May 2022.

Matthew Mabe ('21) received an M.S. in biomanufacturing from NC State in May 2022.

Marriages

Emily Lewis ('02) and Charles Heffernan on January 31, 2022.

Sara McDonald ('03) and Jeffrey Carson on May 30, 2020.

Nick Williams ('04) and Irina Chaplygina on April 27, 2019.

Michael Guthrie ('05) and Emily Hon ('08) on October 20, 2018.

Bryan Kirkman ('05) and Katey Joyce on November 23, 2019.

Amanda Macintyre ('05) and Brad Bowers on September 30, 2021.

Andrea Naranjo Eraza ('05) and **Patrick McNeely** ('08) on October 14, 2016.

Brandon Sandy ('06) and Nina Korenkiewicz on October 14, 2019.

Gabe Anderson ('07) and Caroline Schwechlen on July 7, 2018.

Jason O'Neal ('07) and Sarah Wilson on September 1, 2018.

Michael Stewart ('07) and Melanie Lark-Bening on September 5, 2021.

Jonathon Harding ('08) and Erika Bruno on September 22, 2018.

Emily Hon ('08) and **Michael Guthrie** ('05) on October 20, 2018.

Henry Lan ('08) and Joanna Yang on August 6, 2021.

Kendall Liner ('08) and Devan Buchanan on November 7, 2020.

Patrick McNeely ('08) and **Andrea Naranjo Eraza** ('05) on October 14, 2016.

Tracy Sapp ('08) and Markus Smith on October 17, 2021.

Allison Thomas ('08) and Aaron Morrison on November 20, 2021.

Mary Guthrie ('09) and Adam Leedy ('09) on July 21, 2018.

Rachel Hyatt ('09) and Akil Liles on February 29, 2020.

Maria Krotava ('09) and Tim Smith on January 2, 2019.

Adam Leedy ('09) and **Mary Guthrie** ('09) on July 21, 2018.

Esmeralda Luna-Ramos ('09) and Tony Maceda on July 14, 2018.

AJ Smeraski ('09) and Jaimie Owens on November 16, 2019.

James Williams ('09) and Kathryn Cafilisch on April 27, 2019.

Veronica Adams ('10) and Sam Giroux on October 1, 2021.

Megan Bittner ('10) and Collin Meador on October 29, 2021.

Leon Garcia ('10) and Rachel Mattson on December 14, 2019.

Luisa Islas ('10) and Jim Chalmers on December 9, 2018.

Lara Jazmin ('10) and Stephen Colby on September 2, 2018.

Eddie Osika ('10) and Mary Escobar in August 2020.

Lane Daley ('11) and Lenny Waters on June 4, 2019.

Robert Edmiston ('11) and Rachael Angell on October 20, 2019.

Jami Guthrie ('11) and Justin Kelley on June 3, 2022.

Cedric Harville ('11) and Nikki Holloway on July 13, 2017.

Doug Kaminskas ('11) and Heather Schultz on November 24, 2020.

Jessica Kennedy ('11) and Matt McGuire on December 22, 2018.

Kristy Layton ('11) and Michael Fricano on October 7, 2018.

Jen Lewis ('11) and Edwin Oliva on February 8, 2021.

Kyle Lindsay ('11) and Nicole Cisler on September 24, 2021.

Brandon Moore ('11) and **Ellery Ward** ('13) on September 20, 2020.

Katie Payne ('11) and Andrew Percy on November 6, 2021.

John Petite ('11) and Caitlin Winnike on September 6, 2020.

Spencer Pierce ('11) and Kelsey Nethercot on May 4, 2019.

Jamie Pye ('11) and Samantha Lilly on September 19, 2020.

Amber Spolarich ('11) and Jacob Langley on October 26, 2018.

Kolby Stockton ('11) and Jordan Braddock on November 21, 2021.

Yen Tang ('11) and Kensey Warner on June 19, 2021.

Rabi Amini ('12) and Anna Gallo on October 20, 2018.

Matt Behrhorst ('12) and Katie Charron on February 23, 2020.

Brandon Berry ('12) and Rocio Lluich on November 28, 2021.

Christy Carcillo ('12) and Kevin Neumar on April 27, 2019.

Will Carter ('12) and Anne Culpepper on October 10, 2020.

David Crawford ('12) and Christine Arocena on February 6, 2021.

Kelly Fitzwater ('12) and Leonard Shade on September 25, 2021.

Meghan McCann ('12) and Andrew Allman on August 12, 2018.

Dan Minkler ('12) and Madison Savage on May 30, 2021.

Emily Ostrander ('12) and Chris Modafferi on October 2, 2021.

Matt Ostrowski ('12) and Bria Rei on June 1, 2019.

Heather Pawlicki ('12) and Rob Anderson on September 18, 2018.

Taylor Resparc ('12) and Tess Hill on November 3, 2018.

Megan Smithmyer ('12) and Ross Varin on December 28, 2021.

Andrew Tibbits ('12) and Lauren Dorsey on May 23, 2020.

Nick Venuti ('12) and Courtney Aloia on May 11, 2019.

Josh Amick ('13) and Celia Smith on August 18, 2018.

Celeste Berghey ('13) and Justin Mueller on October 4, 2019.

Kyle Black ('13) and Nicole Royer on April 13, 2019.

Jeff Campey ('13) and Kelly English on October 14, 2021.

Allison Coats ('13) and Nathan White on March 3, 2019.

Sarah Dümmer ('13) and Cody Herrick on December 21, 2019.

Dustin French ('13) and Hayley Drews on November 18, 2108.

Isaac Kichak ('13) and Nicole Laramée on September 28, 2019.

Trevor Lawson ('13) and Heather Johnson on November 2, 2019.

Marriages, Continued

Lawrence Li (‘13) and Eunae Ji on November 19, 2021.

Cayle Machek (‘13) and Nathan Fall on July 28, 2018.

Steven Mazur (‘13) and Vanessa Riley on August 30, 2019.

Kevin Oliver (‘13) and Kristen Kennedy on September 19, 2020.

Jordan Rowe (‘13) and Rebecca James on December 4, 2021.

Justin Russell (‘13) and Paige Smart on October 16, 2021.

Michael Sanchez (‘13) and Samantha Angell on June 18, 2019.

Megan Szakasits (‘13) and Ryan Marson on May 2, 2021.

Eric Vetterl (‘13) and Rachel Hamm on July 6, 2019.

Ellery Ward (‘13) and **Brandon Moore** (‘11) on September 20, 2020.

Jeff Basey (‘14) and Lauren Stitzlein on June 27, 2020.

Kelsey Boykin (‘14) and Tyler Small on June 27, 2020.

Charlie Dew (‘14) and Kristen Qualters on July 3, 2021.

Jeremy Friedman (‘14) and Katie Furman on June 12, 2020.

Sarah Gharavi (‘14) and Ryan Stermer on July 5, 2019.

Haley Hanes (‘14) and David Carter on September 4, 2020.

Mike Hassett (‘14) and Lauren Mincey on June 21, 2019.

Jorge Joya (‘14) and **Brittany Marchand** (‘15) in 2020.

Claire Kilmer (‘14) and **Josh Shepherd** on April 27, 2019.

Michael Lane (‘14) and Joy Liu on October 5, 2020.

Amy Lawrence (‘14) and Carlos Chaparro on May 22, 2021.

Lauren Lownes (‘14 and ‘15) and **Jeff Ledbetter** on September 14, 2019.

Jonathan Mihiu (‘14) and Corinne Skopek on May 4, 2019.

Adam Mullis (‘14) and Kiva Forsmark on June 1, 2019.

Evan Musten (‘14) and Debi Klein on July 3, 2021.

Nicole Palombit (‘14) and Fran Santimauro on September 14, 2019.

Kayla Peck (‘14) and Tom Skinner on August 21, 2021.

Stephanie Seals (‘14) and John Honour on April 26, 2019.

Sheila Sodagar (‘14) and Mike Schotzinger on October 26, 2019.

Chris Stamopoulos (‘14) and Marina Snellings on December 29, 2019.

Taylor Thornton (‘14) and Jonathan Winkles on October 23, 2021.

Michael Valeri (‘14) and Sarah Discepoli on October 3, 2020.

Erin Walsh (‘14) and **Mitchell Jones** (‘14) on March 16, 2019.

David Williams (‘14) and Jaleh Abedini on October 17, 2020.

Alexis Xenakis (‘14) and Brandon Baxter on May 11, 2020.

Robert Bailey (‘15) and Amanda Roth on October 27, 2018.

Lindsey Barnes (‘15) and Tevin Norris on March 19, 2022.

Daniel Bergandine (‘15) and Casey Lowder on November 3, 2018.

Tim Brantley (‘15) and Joy Davis on May 23, 2020.

Katelyn Brevoort (‘15) and Robert Wheeler on June 8, 2018.

Hayden Brochu (‘15) and Noelle Buttrey on September 22, 2019.

Stephen Clark (‘15) and Julia Parker on October 10, 2020.

Mark Conrad (‘15) and Lyn Smarr on February 15, 2020.

Harsh Desai (‘15) and Ananya Reddy on March 14, 2020.

Adam Elhammoumi (‘15) and **Jesseeca Nguyen** (‘15) on October 2, 2021.

Cody Esser (‘15) and Lauren Pasciak on July 13, 2019.

Derrick Gallimore (‘15) and Elizabeth Phelps on September 23, 2021.

Duncan Howard (‘15) and Bradli Crump on September 15, 2016.

Stanley Hryniuk (‘15) and Jessie Blackburn on October 27, 2019.

Victoria Hunt (‘15) and Joe Migoley on October 23, 2021.

Patrick Johnstone (‘15) and Caitlyn Willis on September 21, 2019.

Morgan Kaman (‘15) and Mattia Muller on August 24, 2019.

Stacey Kelly (‘15) and Bobby Vaziri on September 23, 2018.

Katie Kirkley (‘15) and Allen Ray on November 9, 2020.

Aakash Kumar (‘15) and Asmita Patel on December 11, 2020.

Zach Lineberger (‘15) and Shannon Bailey on August 17, 2019.

Morgan Malick (‘15) and Kathryn Bush on August 12, 2017.

Brittany Marchand (‘15) and Jorge Joya (‘14) in 2020.

Hadia Masood (‘15) and Naveed Ur Rehman on August 8, 2018.

Colin Michels (‘15) and Brooke Skakle on October 14, 2021.

Shea Molthen (‘15) and Holley Holmes on August 31, 2019.

Kevin Mullen (‘15) and Emily Daugherty on January 19, 2019.

Kishan Patel (‘15) and Dhruvisha Patel on August 2, 2019.

Corey Parks (‘15) and Melissa Kurschner on October 19, 2019.

Steven Plante (‘15) and Alyssa Little on December 12, 2020.

Spencer Rocco (‘15) and Mary-Brett Smith on November 7, 2020.

Aaron Rozelle (‘15) and Kyleigh Varvel on December 5, 2019.

Matt Salmon (‘15) and Ellen Weburg on August 18, 2018.

Laura Sandtner (‘15) and Brad Chamberlain August 18, 2018.

Moe Savage (‘15) and Britt Gallo on August 18, 2018.

Sawyer Walter (‘15) and Amanda Lay on November 21, 2020.

Aaron Williams (‘15) and Liz Surovec on September 1, 2018.

Logan Allen (‘16) and Sahana Rakshana in fall 2021.

Michael Bailey (‘16) and Lauren Sapp on October 17, 2020.

Andrew Cooke (‘16) and Lilah Conley on October 3, 2020.

Michael Cuffney (‘16) and Krista in December 2019.

Corey Cregan (‘16) and Katherine Gambella on May 15, 2021.

Dana Dale (‘16) and Bill Hollon on October 28, 2017.

Andrew Daniel (‘16) and Julie Armstrong on April 11, 2021.

Nathan Fox (‘16) and Lindsey Davis on September 25, 2021.

Ryan Fox (‘16) and Sofia Garakyaraghi on April 4, 2020.

Morgan Grouge (‘16) and Steven Bearden on November 6, 2021.

Mark Holcomb (‘16) and Nina Habecker on July 7, 2018.

Dylan Jaramillo (‘16) and Alissa Simons on April 3, 2021.

Ilinda Jayaratne (‘16) and Kasey Whatley on October 24, 2020.

Kalyani Joshi (‘16) and Ram Yamarthy on October 20, 2018.

Jeremy Kilgore (‘16) and Kelly Pomeroy on April 27, 2019.

Zac Lewis (‘16) and Erika Parker on September 26, 2020.

Charles McGowan (‘16) and Heather Kelley on May 4, 2019.

Michelle McMahan (‘16) and TJ Safron on June 25, 2022.

Emily Pait (‘16) and Alex Tchouros on May 22, 2020.

Paige Pellerin (‘16) and Manny Goti on May 23, 2020.

Cailean Pritchard (‘16) and Christina Chuong on July 9, 2022.

Andrew Ray (‘16) and Rosemary Shahl on September 25, 2021.

Katy Rowland (‘16) and Matt Witte on October 14, 2018.

Cooper Shannon (‘16) and Jillian Swett on August 18, 2020.

Rachel Smith (‘16) and James Bayne on October 13, 2018.

Alex Snyder (‘16) and Ronnee Sutton on March 23, 2020.

Tyler Southerland (‘16) and Jenny Moppett on June 17, 2022.

Suzanne Sumner (‘16) and David Russek on October 3, 2021.

Joseph Thai (‘16) and Nisha Parekh on October 15, 2021.

Justin Vaughan (‘16) and Rachel Redwine on March 2, 2019.

Shelby Williams (‘16) and Philip Widener on October 11, 2020.

Jeremy Whitaker (‘16) and Angelina Ortiz on June 13, 2020.

Kyle Wolfe (‘16) and Lindsay Still on July 7, 2018.

Trey Wright (‘16) and Ashley Raedy on October 17, 2020.

Colby Andrews (‘17) and Katie Finger on July 6, 2019.

Will Archer (‘17) and Angel Pipkin on November 9, 2019.

Zach Barefoot (‘17) and Nikki Stone on June 1, 2019.

Emily Buhr (‘17) and Chase Mathis on April 26, 2019.

Paul Burke (‘17) and Anna Miller on March 21, 2021.

Waan Chulakham (‘17) and Alireza Rahnama on July 25, 2021.

Chris Cooper (‘17) and Natalie Aziz on October 4, 2020.

Sierra Croft (‘17) and Luke Kiser on May 15, 2021.

Steven Denny (‘17) and Maggie Tomaszewski on April 4, 2020.

Olivia Djouboulian (‘17) and Bryan Lindstrom on October 16, 2021.

Will Garrison (‘17) and Sara Riley on July 24, 2021.

Steven Gillespie (‘17) and Kimberly Eddleman on March 27, 2021.

Kathryn Howard (‘17) and Tyler Walz on September 2, 2018.

Kayla Hubert (‘17) and Keegan Kennedy (‘17) on February 22, 2020.

Craig Johnson (‘17) and Barbara Mojica on October 9, 2021.

Caitlyn Joyner (‘17) and Gunnar Spiering on October 17, 2020.

Keegan Kennedy (‘17) and Kayla Hubert (‘17) on February 22, 2020.

Adam Krotchko (‘17) and Sarah Spencer on September 8, 2018.

Brooke McGirr (‘17) and Alex Brown on September 14, 2020.

Andrea Mejia (‘17) and Michael Salinardi on October 21, 2021.

Kaitlyn Nilsen (‘17) and Daniel Alley on October 2, 2020.

Zach Mundy (Ph.D. ‘17) and Kristen Stockfleth on September 28, 2018.

Elyse Pizzella (‘17) and Josh Gowin on November 17, 2018.

Michael Pope (‘17) and Amanda Kracht on March 26, 2022.

Ryan Robinson (‘17) and Brooke Phillips on May 2, 2020.

Marriages, Continued

Claire Ruddiman ('17) and David O'Donnell on October 9, 2020.

David Scanlan ('17) and Brianna Teague on July 6, 2019.

Jiyoung Shin ('16) and Daniel Munns on May 6, 2022.

Michael Stephens ('17) and Callie Efird on July 20, 2019.

Layton Smith ('17) and Ashlyn Herold on December 21, 2019.

Victoria (Tori) Tavares ('17) and Will Goodwin on April 13, 2019.

Nathan Tesh ('17) and Madison Kluttz on May 31, 2020.

Melora Trowell ('17) and Jeff de Kozlowski on April 25, 2020.

Filip Tufvesson ('17) and Callie Buchert on October 2, 2021.

Caroline Wright ('17) and Max Daum on October 7, 2018.

Brandon Balicki ('18) and Alex Hight on October 24, 2020.

Katelynn Beam ('18) and Chris Germain on May 21, 2022.

Nathanael Beekman ('18) and Megan Gongon on August 18, 2018.

Millicent Blivin ('18) and Timothy Capstaff on October 27, 2018.

Lucas Cody ('18) and Rebekah Hackney on May 15, 2022.

Jacob Covington ('18) and Blair Pearce on April 27, 2019.

John Cox ('18) and Morgan Tiernan on April 24, 2021.

Landon DeBerry ('18) and Rachel Price on August 3, 2019.

Jean Marie Dubnanski ('18) and Josh de Leon on February 27, 2022

Andrew Escobar ('18) and Hannah Moore on April 3, 2020.

Kimberly German ('18) and Michael Hultman on October 2, 2021.

Frederic Graumann ('18) and Sophia Cheatham on March 27, 2020.

Cristina Guillen ('18) and **Roger Hernandez Mercado** ('18) on June 19, 2021.

John Hipp ('18) and Abby Williams on May 7, 2021.

Peyton Holste ('18) and Gabby Dorsey on November 20, 2020.

Jacob Jacobs ('18) and Blair Torres on October 24, 2020.

Paul Keefer ('18) and Erica Byrnside on April 3, 2022.

Maggie Kramer ('18) and Zhuvonte Wilson on October 14, 2018.

Chris Lagaly ('18) and Steadman Wilson on November 5, 2021.

Juan Marin ('18) and Kallie Dalton on June 26, 2021.

Roger Hernandez Mercado ('18) and Cristina Guillen ('18) on June 19, 2021.

Caleb Nunn ('18) and Savanah Everhart on May 2, 2020.

Joey Pippin ('18) and Morgan Shafley on June 15, 2019.

Madeline Poole ('18) and David Bohle on November 9, 2019.

Stephanie Rohrwasser ('18) and Stephen Demeny on July 7, 2020.

Spencer Schlenker ('18) and Kevin Bartushak on October 5, 2020.

Tyler Sturgill ('18) and Alex Shook on May 30, 2020.

Aaron Turner ('18) and Maddy Godfrey in March 2020.

Landon Alexander ('19) and Emily Davis on October 10, 2020.

Taylor Alexander ('19) and Omar Haddad on October 2, 2020.

Katie Cao ('19) and Quinn Stoltz on May 15, 2022.

Parker Colbath ('19) and Marianna Connor on August 11, 2019.

Alex Jung ('19) and Lauren Seacrist on October 24, 2020.

Lexi Kloeppel ('19) and Brendan Fox on May 14, 2022.

Karl Kowalewski ('19) and Dessie Brown on April 9, 2020.

Alex Kramer ('19) and Annie Tsumas on November 13, 2021.

Jake Krzyzewski ('19) and Peyton Carter on April 9, 2022.

Josh Lineberger ('19) and Nicole Smit on April 9, 2022.

Andrew Millikan ('19) and Mary Wagner on August 7, 2021.

Kaleb Morrow ('19) and Sarah Jones on October 5, 2019.

Jonathan Pineda ('19) and Lisa Lundy on March 26, 2021.

David Stackhouse ('19) and Elizabeth Waters on August 23, 2020.

Jayne Currie ('20) and Ryan Chabon on November 1, 2020.

Bryce Gaither ('20) and Julia Tan ('20) on September 25, 2021.

Lauren Heinsohn ('20) and Connor Mellon on October 23, 2021.

Brandon Long ('20) and Mikayla Fowler on October 2, 2021.

Jacob Nelson ('20) and Madison Benfield on May 1, 2021.

Taylor Neumann (Ph.D '20) and Kiersten Wyatt on June 24, 2022.

Julia Tan ('20) and Bryce Gaither ('20) on September 25, 2021.

Nick Carroll ('21) and Emily Bussen on July 26, 2021.

Josiah Johnson ('21) and Alexa Thomas on May 17, 2022.

Christa Parrish ('21) and Josh Beerel in December 2020.

Births

Chad Nussman ('00) and his wife, Ashleigh, announce the birth of their daughter, Emery Estelle Nussman, on June 29, 2020.

Mark Laney ('01) and his wife, Amanda, announce the birth of their son, Evan James Laney, on November 16, 2018.

Christine (Lin) Johnson ('01) and her husband, Laurance, announce the birth of their son, Luke Johnson, in May 2020.

Tyler Sharkey ('01) and his wife, Leslie, announce the birth of their daughter, Lila-Jane Rose Sharkey, on September 18, 2018.

Josephine (Greenwood) Oldham ('02) and **Chris Oldham** ('02) announce the birth of their son, Bosworth (Boz) Christopher Oldham, on April 29, 2020.

Bill Ketchie ('02) and his wife, Rebecca, announce the birth of their daughter, Elizabeth Joyce Ketchie, on December 18, 2019.

Everett Minga ('02) and his wife, Maria, announce the birth of their son on November 2, 2018.

Chris Oldham ('02) and **Josephine Greenwood Oldham** ('02) announce the birth of their son, Bosworth (Boz) Christopher Oldham, on April 29, 2020.

Valerie (Tse) Chou ('02) and her husband Ben announce the birth of their daughter, Athena Xian-Hui Chou, on February 21, 2020.

Glenn Auman ('03) and his wife Blair announce the birth of their daughter, Nora Grace Auman, on April 13, 2019.

Steven Clark ('03) and his wife Lindsey announce the birth of their daughter, Anna Catherine Clark, on December 27, 2022.

Terry Goss ('03) and his wife Jennifer announce the birth of their daughter, Sidney Carol Goss, on April 5, 2021.

Eric Blanchone ('04) and his wife Sara announce the birth of their daughter, Vivian Mae Blanchone, on March 17, 2019.

Cliff Bynum ('04) and his wife Jenna announce the birth of their daughter, Victoria Christine Bynum, on April 16, 2019.

Wes Hudson ('04) and his wife Mingchun announce the birth of their daughter, Ruby Grace Hudson, on September 30, 2018.

Merrick (Miles) Jones ('04) and her husband Freeman announce the birth of their son, Freeman Randolph Jones IV, on July 1, 2018 and their daughter, Bouldin “Bo” Wallace Jones, on September 1, 2021.

David Day ('05) and his wife Becky announce the birth of their son, Phillip Allen Day, on August 22, 2020.

Michael Guthrie ('05) and his wife **Emily (Hon) Guthrie** ('08) announce the birth of their son, Dylan Chou-Ling Guthrie, on September 15, 2021.

Andrea Naranjo Eraza ('05) and **Pat McNeely** ('08) announce the birth of their son, Augustine Daniel McNeely Naranjo, on Decemder 28, 2020.

Sid Usry ('05) and his wife Amy announce the birth of their son, Beau Everett Usry, on May 24, 2020.

Robbie Williams ('05) and his wife Jessica announce the birth of their third son, Dakota Zachary Williams, on March 27, 2018.

Mary (Andrews) Hamrick ('06) and her husband Geoff announce the birth of their son, Noah James Hamrick, on September 27, 2019.

Erin (Bass) Stradley ('06) and her husband Dylan announce the birth of their daughter, Everett Marijke Stradley, on March 11, 2019.

Carl Cox ('06) and his wife Allison announce the birth of their daughter, Carly Joy Cox, on March 5, 2019.

Sabil Huda ('06) and his wife announce the birth of their son, Aayan Huda, on November 11, 2019.

Sam Price ('06) and his wife Olivia announce the birth of their son, Sullivan Gray Allen-Price, on January 18, 2021.

Brandon Sandy ('06) and his wife Nina announce the birth of their son, Aldan Jude Sandy, on January 28, 2022.

Trent Watts ('06) and his wife Andrea announce the birth of their daughter, Evelyn Kate Watts, on October 22, 2020.

Jessica (Willems) Creech ('06) and her husband Aaron announce the birth of their son, Elijah John Creech, on January 6, 2019.

Gabe Anderson ('07) and his wife Caroline announce the birth of their son, Noah Antoine Anderson, on September 8, 2021.

Linda (Bruner) Armitage ('07) and her husband Adam announce the birth of their daughter, Cora Lynn Armitage, on March 12, 2019.

Chris Broda ('07) and his wife Jackie announce the birth of their daughter, Caroline Ayla Broda, in February 2022.

Dan Chamblee ('07) and his wife Ashton announce the birth of their son, James Harrison Chamblee, on November 2, 2018.

Andrew Covington ('07) and his wife Alexis announce the birth of their son, Nathan Bennett Covington, on July 25, 2018 and their second son in October 2020.

Brandon Fincher ('07) and his wife Anna announce the birth of their daughter, Catherine Estelle Fincher, on November 26, 2020.

Troy Gould ('07) and **Sarah Trexler Gould** ('08) announce the birth of their daughter, Cora Kay Gould, in June 2019.

Alton Hare ('07) and his wife Melanie announce the birth of their daughter, Zoe Joye Hare, on July 3, 2019.

Births, Continued

Justin Harris ('07) and his wife Liz announce the birth of their daughter, Harper Durham Harris, on May 27, 2020.

Anthony Howard ('07) and his wife Sarah announce the birth of their son, Owen James Howard, on June 26, 2019.

Samia Ilias ('07) and her husband Alex Marvin announce the birth of their daughter, Alina Ilias Marvin, on August 27, 2018 and their daughter, Zahra Ilias Marvin, on August 25, 2021.

Katie (Kennedy) Hullet ('07) and her husband Darren announce the birth of their daughter, Elena Mackenzie Hullet, on September 21, 2018.

Chris Lowe ('07) and his wife Jasmin announce the birth of their son, Carter Alexander Lowe, on June 27, 2017.

Thomas Medlin ('07) and his wife Edith announce the birth of their son, Tobias Beckett Medlin, on July 13, 2020.

Joel Ortiz Prieto ('07) and his wife Sabrina announce the birth of their daughter, Luna Margareta Ortiz, in January 2020.

Wes Overton ('07) and his wife Kristen announce the birth of their daughter, Leah Josie Overton, on October 2, 2018.

Mike Vergamini ('07) and his wife Jessica announce the birth of their son, George Francis "Frankie" Vergamini on March 9, 2019.

Kyle Watts ('07) and his wife Elizabeth announce the birth of their son, Bryson Tyler Watts, on March 24, 2022.

Rachel Babson Steffen ('08) and her husband Sam announce the birth of their son, Archer Grey Steffen, on August 3, 2020.

Robert Crews ('08) and **Heather (Ruby) Crews** ('08) announce the birth of their daughter, Cadence Ann Crews, on June 6, 2021.

Lauren (Crumpler) Murray ('08) and her husband Dayne announce the birth of their daughter, Layna Mazelle Murray, on September 22, 2018 and their daughter, Maya Ruth Murray, on June 15, 2021.

Jonathon Harding ('08) and his wife Erika announce the birth of their daughter in October 2019.

Derek Hernandez ('08) and his wife Narisa announce the birth of their daughter, Ayla Hernandez, in February 2022.

Emily (Hon) Guthrie ('08) and her husband **Michael Guthrie** ('05) announce the birth of their son, Dylan Chou-Ling Guthrie, on September 15, 2021.

Taylor Kirkland ('08) and his wife Megan announce the birth of their daughter, Andi Angela Kirkland, on May 17, 2019 and their twins, Everett James Kirkland and Forrest Monroe Kirkland, on November 19, 2021.

Taylor Loftis ('08) and his wife Maureen announce the birth of their daughter, Louise Elizabeth Loftis, on July 28, 2019.

Pat McNeely ('08) and **Andrea Naranjo Eraza** ('05) and announce their birth of their son, Augustine Daniel McNeely Naranjo, on December 28, 2020.

Wran Metzler ('08) and his wife Marnie announce the birth of their son, Calder James Metzler, on January 13, 2020.

Akin Omofoye ('08) and his wife Toma announce the birth of their son, Joshua Omofoye, on December 31, 2018.

Heather (Ruby) Crews ('08) and her husband **Robert Crews** ('08) announce the birth of their daughter, Cadence Ann Crews, on June 6, 2021.

Chris (Topher) Smith ('08) and his wife Marcia announce the birth of their son, Henry James Smith, on August 29, 2018.

Sid Subramanian ('08) and his wife Tanisha announce the birth of their daughter, Kaavya Subramanian, on June 29, 2021.

Jose Tan ('08) and his wife Josebelle Abellon announce the birth of their daughter, Izabelle Marie Tan, on December 15, 2020.

Sarah (Trexler) Gould ('08) and her husband **Troy Gould** ('07) and announce the birth of their daughter, Cora Kay Gould, in June 2019.

Cindy (Wang) Hancy ('08) and her husband Matt announce the birth of their son, Jack, on August 27, 2018 and their daughter, Emilia Mae, on October 28, 2021.

Clay Wright ('08) and his wife Rachel announce the birth of their daughter, Maya Silverman Wright, on January 23, 2019.

Amber (Bruk) Niemeyer ('09) and her husband Eric announce the birth of their daughter, Aurelia Juniper Niemeyer, on September 19, 2020.

Andrew Canton ('09) and his wife Anastasia announce the birth of their daughter, Sophia Canton, in September 2020.

Catherine (Currence) Connor ('09) and her husband Travis announce the birth of their son, Scott Emerson Connor, on October 11, 2018.

Kathryn (Earley) Holland ('09) and her husband Bryan announce the birth of their son, Jackson Edwin Holland, on September 3, 2018.

Dacie Edwards ('09) and her husband Jess announce the birth of their daughter, Mary Helen Edwards, on April 5, 2019.

Jamie (Forbis) Jackson ('09) and her husband John announce the birth of their daughter, Raegan Leanna, Jackson, on September 16, 2018.

Bridget (Hamill) Hafshejani ('09) and her husband Daniel announce the birth of their daughter, Roya Anne Hafshejani, on August 15, 2018.

Andressa (Hungria) Michel ('09) and her husband Nicholas announce the birth of their daughter Isabella on January 17, 2019 and their daughter Priscilla on April 29, 2022.

Esmeralda (Luna-Ramos) Mercada ('09) and her husband Antonio announce the birth of their son, Antonio Jesus Mercada, on January 31, 2020.

Zach Nicholson ('09) and his wife Callie announce the birth of their son Leyton Nicholson on August 1, 2017 and their daughter Ryleigh Jo Nicholson in March 2019.

Elizabeth (Nieman) Redfern ('09) and her husband Andrew announce the birth of their son, Bryan Thomas Redfern, on January 3, 2021.

Henryk Orlik ('09) and his wife Britton announce the birth of their daughter, Octavia Noble Orlik, on July 13, 2021.

AJ Smeraski ('09) and his wife Jaime announce the birth of their daughter, Amelia Claire Smeraski, on October 15, 2021.

Andrew Steinhauer ('09) and **Nicole (Seabrook) Steinhauer** ('09) announce the birth of their daughter, Skylar Lane Steinhauer, on March 16, 2019.

Nicole (Seabrook) Steinhauer ('09) and **Andrew Steinhauer** ('09) announce the birth of their daughter, Skylar Lane Steinhauer, on March 16, 2019.

Lindsey Stamm (Ph.D. '09) and her husband Josh announce the birth of their son, Thomas Stamm, on October 8, 2019.

Meagan (Stewart) Browett ('09) and her husband Oliver announce the birth of their son, Hendrick David Browett, on June 18, 2019.

Garrett Swindlehurst ('09) and his wife Anna announce the birth of their son, Flynn Arlo Swindlehurst, on October 29, 2020.

Trent Tovar ('09) and his wife Anne announce the birth of their son, Allen Thomas Tovar, on October 4, 2020.

Ashley (Williams) Ghia ('09) and her husband Shishir announce the birth of their daughter, Eloise Avni Ghia, on February 19, 2019.

Ryan Abernathy ('10) and his wife Elizabeth announce the birth of their son, John Ryan Abernathy, on May 27, 2021.

Chris Austin ('10) and his wife Jennifer announce the birth of their daughter, Amelia Josephine Austin, on July 4, 2020.

Michaela (Bennett) McKenzie ('10) and **Justin McKenzie** ('10) and announce the birth of their son, Bennett Lee McKenzie, on April 28, 2020.

Michael Brown ('10) and his wife Erica announce the birth of their son, William Pahl Brown, on January 4, 2019 and their son, Harrison Martin Brown on March 9, 2021.

Elizabeth (Butler) Scott ('10) and her husband Ryan announce the birth of their son, Jacob Henderson Scott, on September 29, 2018.

Juan Castaño ('10) and his wife Gina announce the birth of their daughter, Emilia Mae Castaño, on October 28, 2021.

Aaron Day ('10) and his wife Brittany announce the birth of their daughter, Vada Wren Day, on June 20, 2019.

Christian Estes ('10) and his wife Sarah announce the birth of their son, Cory Zephaniah Estes, on September 19, 2021.

Kendall Fitzgerald ('10) and his wife Lauren announce the birth of their son, Grey Alexander Fitzgerald, on August 18, 2019 and their son, Ford Samuel Fitzgerald, on January 15, 2021.

Kyle Ford ('10) and his wife Michelle announce the birth of their son, Everett Micah Ford, on February 21, 2019.

Matt Gebbie ('10) and **Allie (Schuster) Gebbie** ('11) announce the birth of their daughter, Charlotte Louise Gebbie, on January 29, 2020.

Chris Hanson ('10) and his wife Jamie announce the birth of their daughter, Cohen Lynn Hanson, on October 26, 2018 and their daughter, Camden Marie Hanson, on February 21, 2021.

Alex Hunt ('10) and his wife Danielle announce the birth of their daughter, Mary Claire Hunt, on January 22, 2019.

Nicholas King ('10) and his wife Vanessa announce the birth of their daughter, Sophia King, on January 27, 2022.

Emily (Lattimer) Bastarrechea ('10) and her husband Julian announce the birth of their son, Roe Bastarrechea, on October 20, 2018.

Daniel Lawson ('10) and his wife Margaret announce the birth of their daughter, Hannah Paige Lawson, on March 29, 2020.

Peter McAnulty ('10) and his wife Sarah announce the birth of their daughter, Hannah Marie McAnulty, on September 20, 2018 and their daughter, Allison Ann McAnulty, on June 7, 2021.

Justin McKenzie ('10) and Michaela (Bennett) McKenzie ('10) announce the birth of their son, Bennett Lee McKenzie, on April 28, 2020.

Patrick Parr ('10) and his wife Chelsea announce the birth of their daughter, Lillian Rose Parr, on April 30, 2019.

Amber (Place) Bixler ('10) and her husband Bryce announce the birth of their son, Samuel Richard Bixler, on April 25, 2019.

Births, Continued

Jeffery Preece ('10) and his wife Courtney announce the birth of their son, Cole Preece, on October 7, 2019.

Brad Reese ('10) and his wife Amanda announce the birth of their daughter, Lillian Reese, on June 21, 2020.

Natalie Soto ('10) and her husband announce the birth of their daughter, Evelyn Paige Soto, on April 11, 2021.

Amanda (Vorenkamp) Scott ('10) and her husband Andy announce the birth of their son, Dylan Lewis Scott, on March 9, 2020.

Blake Clayton ('11) and his wife Rachel announce the birth of their son, Hayes Anthony Clayton, January 1, 2021.

Robert Deedrick ('11) and his wife Erin announce the birth of their son, Jett Thomas Deedrick, on January 19, 2021.

Steven Doligalski ('11) and his wife Meghan announce the birth of their daughter, Sadie Doligalski, on March 5, 2020.

Jeff Fadool ('11) and his wife Erica announce the birth of their daughter, Emerson Maeve Fadool, on May 26, 2020.

Sam Fipps ('11) and his wife Cassie announce the birth of their daughter, Perrie Colleen Fipps, on March 11, 2020.

Sydne (Folger) Stone ('11) and her husband Ryan announce the birth of their daughter, Remi Elizabeth Stone, on April 17, 2020.

Brian Gensch ('11) and his wife Allison announce the birth of their son, Rory James Gensch, on January 19, 2022.

Jennifer (Gowen) Biggs ('11) and her husband Mason announce the birth of their daughter Charlie Biggs on May 17, 2019 and their daughter Libby Biggs on June 23, 2021.

Jami Guthrie ('11) and her husband Justin Kelley announce the birth of their daughter, Londyn Ava Guthrie, on September 28, 2020.

Cedric Harville ('11) and his wife Nikki announce the birth of their son, Noah Benjamin Harville, on December 29, 2020.

Matt Hunsucker ('11) and his wife Rachel announce the birth of their daughter, Olivia Joy Hunsucker, on December 5, 2019.

Kevin Miller ('11) and his wife Hannah announce the birth of their daughter, Alayna Mae Miller, on May 20, 2020.

Dhaval Mistry ('11) and his wife Bbhumi announce the birth of their son, Rudra Mistry, in October 2020.

Mason Pedzwater ('11) and his wife Ashley announce the birth of their son, John Joseph Pedzwater, on September 10, 2020.

Jeremy Presson ('11) and his wife Ashley announce the birth of their daughter, Alessa Joy Presson on March 4, 2022.

Richard Pridgen ('11) and his wife Megan announce the birth of their son, Kieran Wade Pridgen, on March 23, 2020.

Greg Riehle ('11) and his wife Erika announce the birth of their daughter, Haiden Olivia Riehle, on April 17, 2020.

Evren Ozcam (Ph.D. '11) and his wife, Derya Demirel Ozcam, announce the birth of their daughter, Ada Ozcam, on March 25, 2019.

Greg Riehle ('11) and his wife Erika announce the birth of their son, Joel Riehle, in April 2022.

Allie (Schuster) Gebbie ('11) and **Matt Gebbie** ('10) and announce the birth of their daughter, Charlotte Louise Gebbie, on January 29, 2020.

Brandon Shannonhouse ('11) and his wife Leah announce the birth of their son, Hudson Russ Shannonhouse, on January 17, 2020.

Justin Zickler ('11) and his wife Courtney announce the birth of their daughter, Madeleine Belle Zickler, on November 11, 2018.

Luke Babyak ('12) and his wife Kristen announce the birth of their son, Eric Gerald Babyak, on January 21, 2020 and their daughter, Emily Marie Babyak, on January 28, 2022.

Ben Bell ('12) and his wife Allee announce the birth of their daughter, Eliza Gwen Bell, on January 30, 2021.

Marshall Bowden ('12) and his wife **Christine (Burdett) Bowden** ('13) announce the birth of their son, Benjamin Marshall Bowden, on May 5, 2020 and their daughter, Madison, on April 11, 2022.

Billie Jo (Bowen) Shields ('12) and her husband Cole announce the birth of their son, Jagger Cole Shields, on June 4, 2022.

Elizabeth (Bowers) Lyall ('12) and Amir Lyall ('12) and announce the birth of their son, Isaac James Lyall, on February 9, 2021.

David Brower ('12) and his wife Brittany announce the birth of their son, Wesley Michael Brower, on March 25, 2021.

Brenton Daino ('12) and his wife Casey Helms announce the birth of their son Parker-Lee Daino on April 27, 2017, their son, Bastjan Augustus Daino, on October 23, 2018, and their son, Dax Zip Daino, on April 11, 2020.

Jonathan Dew ('12) and his wife Elizabeth announce the birth of their son, Austin Tyler Dew, on November 1, 2020.

David Froggatt ('12) and his wife Monica announce the birth of their son, Camden Gray Froggatt, on October 9, 2018.

Andrea (Gill) Green ('12) and her husband Matt announce the birth of their son, Jackson Matthew Green, on February 1, 2021.

Ryan Hart ('12) and his wife Denyelle announce the birth of their son, Aaron James Hart, on March 29, 2021.

Jennifer (Hinkley) Abell ('12) and her husband Clay announce the birth of their son, Arly Abell, on July 12, 2018.

Reb Kornahrens ('12) and his wife Jaimee announce the birth of their son, Josen Kornahrens, on January 8, 2021.

Kate Leonik Shinkwin ('12) and her husband announce the birth of their daughter, Vivien Marie Shinkwin, on March 4, 2019.

Amir Lyall ('12) and **Elizabeth (Bowers) Lyall** ('12) announce the birth of their son, Isaac James Lyall, on February 9, 2021.

Amanda (Mercer) Bernadina ('12) and her husband Jon announce the birth of their daughter, Nora Grace Bernadina, on February 11, 2021.

Andrew Mills ('12) and his wife Emily announce the birth of their daughter, Leah Elizabeth Mills, on June 21, 2019 and their daughter, Sophie Rose Mills, on September 20, 2020.

Evan Parrish ('12) and his wife Maria announce the birth of their daughter, Emilia Patricia Parrish-Vazquez, on March 7, 2021.

Tommy Plante ('12) and his wife Christina announce the birth of their son, James Thomas Plante, on February 24, 2021.

Lacey (Raschke) Tinkle ('12) and her husband Chris announce the birth of their son, Beau Christopher Tinkle, on November 7, 2018 and their son, Austin Joseph Tinkle, on November 13, 2020.

Taylor Resparc ('12) and his wife Tess announce the birth of their daughter, Emilia Grey Resparc, on May 26, 2021.

David Shaner ('12) and his wife Stephanie announce the birth of their daughters, Clare Elise Shaner, on April 13, 2019 and Coryce Quinn Shaner ("Cory Quinn") on August 11, 2021.

Joe Slepitza ('12) and his wife Cade announce the birth of their daughter, Elizabeth Jane Slepitza, on May 28, 2020.

Brooke (Smith) Biddle ('12) and her husband Isaac announce the birth of their daughter, Olivia Grace Biddle, on November 15, 2019.

Chelsea (Smith) Hutchinson ('12) and her husband Eric announce the birth of their daughter, Audrey Rachael Hutchinson, on March 8, 2021.

Kevin Ventura ('12) and his wife Kathleen announce the birth of their daughter, Lucy Margaret Ventura, on September 2, 2021.

Kimberly (Williams) Ross ('12) and her husband Tyler announce the birth of their son, Jackson Allyn Ross, on October 15, 2019.

Brandy (Yarbrough) Potter ('12) and her husband Justin announce the birth of their son, Jackson Ray Potter, on March 20, 2020 and their daughter, Skylar Rose Potter, on May 30, 2022.

Josh Amick ('13) and his wife Celia announce the birth of their son, Robert Lawrence Amick, on May 19, 2020.

Joseph Andolsen ('13) and his wife Jessica announce the birth of their daughter, Josie Lynell Andolsen, on December 4, 2020.

Jason Baker ('13) and his wife Rachel announce the birth of their daughter, Claire Marie Baker, on July 7, 2021.

Kyle Black ('13) and his wife Nicole announce the birth of their daughter, Mackenzie Claire Black, on June 6, 2020.

Christine (Burdett) Bowden ('13) and **Marshall Bowden** ('12) announce the birth of their son, Benjamin Marshall Bowden, on May 5, 2020 and their daughter, Madison, on April 11, 2022.

Chelsea (Daughtridge) Boudreau ('13) and her husband Ben announce the birth of their son, Corbin Scott Boudreau, on December 14, 2020.

Mick Doriani ('13) and his wife Natalie announce the birth of their son, Michael Joseph Doriani, Jr., on December 4, 2019.

Dustin French ('13) and his wife Hayley announce the birth of their daughter, Emory Ruth French, on September 22, 2020.

Dale Garrison ('13) and **Peyton Lambeth Garrison** ('14) announce the birth of their daughter, Evelyn Ann Garrison, on November 20, 2018 and their son, Thomas James Garrison, on December 4, 2021.

Laura (Hardesty) Thompson ('13) and her husband John announce the birth of their son, Max Thompson, on February 11, 2019 and their son, Ralph Thompson, on April 13, 2021.

Jamie (Johnson) Harford ('13) and her husband Josh announce the birth of their daughter, Amelia Jo Harford, on February 18, 2021.

Brandon Jones ('13) and his wife Katherine announce the birth of their daughter, Charlotte Dale Jones, on December 1, 2019.

Ben Jordan ('13) and his wife Samantha announce the birth of their son, Theodore Arthur Jordan, on July 21, 2020.

Mitchell Lancaster ('13) and his wife Abby announce the birth of their son, Henry Alden Lancaster, on August 4, 2021.

Charles Lane ('13) and his wife Alexandra announce the birth of their son, August Earl Lane, on March 20, 2020.

Births, Continued

Christin (Lane) Adams ('13) and her husband Aaron announce the birth of their daughter, Caroline Blake Adams, on July 17, 2018.

Jack Nugent ('13) and his wife Amanda announce the birth of their son, Kane Owen Nugent, on December 24, 2020.

Thomas Osteen ('13) and **Mallory (Moran) Osteen** ('14) announce the birth of their son, Owen Powell Osteen, on October 14, 2020.

Ashley (Overcash) Hardee ('13) and her husband Tanner announce the birth of their son, Bryson Tanner Hardee, on August 13, 2020.

Matt Parham ('13) and his wife Kelley announce the birth of their daughter, Riley Anne Parham, on August 13, 2021.

Tyson Pickard ('13) and his wife Lauren announce the birth of their daughter, Ava Lynn Pickard, on August 13, 2021.

Jeremy Roberts ('13) and his wife Hannah announce the birth of their son, Kade Allen Roberts, on December 2, 2020.

Nik Sigmon ('13) and his wife Freda announce the birth of their son, Frederick Nikolai Sigmon, on July 14, 2020.

Ross Smith ('13) and his wife Gabrielle announce the birth of their daughter, Scarlet Belle Smith, on September 11, 2020.

Rachel (Snyder) Hodges ('13) and her husband Jeremy announce the birth of their son, Robert Luke Hodges, on June 17, 2020.

Austin Uzzell ('13) and his wife Amber announce the birth of their son, Oliver James Knight Uzzell, on December 1, 2020.

Spencer Vaughn ('13) and his wife Chelsea announce the birth of their son, Owen Spencer Vaughn, on August 28, 2018.

Eric Vetterl ('13) and his wife Rachel announce the birth of their son, Barrett James Vetterl, on January 16, 2021.

Chris Austin ('14) and his wife Monica announce the birth of their twins, Maisie and Carter Austin, on October 14, 2020.

Michelle (Blood) Hudson ('14) and her husband Tyler announce the birth of their son, Trevor Lucas Hudson, on September 15, 2020 and their son, Trace Tyler Hudson, on March 17, 2022.

Kelsey (Boykin) Small ('14) and her husband Tyler announce the birth of their son, Tate Boykin Small, on May 29, 2022.

Zach Culberson ('14) and his wife Katy announce the birth of their son, Zachary Tyler Culberson, on November 1, 2020.

Jesse Dean ('14) and his wife Catie announce the birth of their daughter, Delaney Dean, in September 2019.

Daniel Dudley ('14) and his wife Allison announce the birth of their son, Oliver Graham Dudley, on April 28, 2019.

Mike Hassett ('14) and his wife Lauren announce the birth of their daughter, Ella Grace Hassett, on March 14, 2022.

Kendre (Kesler) Burnett ('14) and her husband Scott announce the birth of their son, Brayden William Burnett, on October 17, 2020.

Branson Kinsey ('14) and his wife Molly announce the birth of their son, Theodore Alexander Kinsey, on March 29, 2019 and their son, Hayes Sutton Kinsey, on January 31, 2022.

Peyton (Lambeth) Garrison ('14) and **Dale Garrison** ('13) and announce the birth of their daughter, Evelyn Ann Garrison, on November 20, 2018 and their son, Thomas James Garrison, on December 4, 2021.

Jon Lewis ('14) and his wife Alicia announce the birth of their twins, daughter Ellie Rose Lewis and son Theodore Hubert Lewis, on April 30, 2019.

Nate Madison ('14) and his wife Ginger announce the birth of their son, Miles Gray Madison, on April 2, 2021.

Mallory (Moran) Osteen ('14) and **Thomas Osteen** ('13) and announce the birth of their son, Owen Powell Osteen, on October 14, 2020.

Evan Musten ('14) and his wife Debi announce the birth of their son, Lucas Musten, on March 23, 2022.

Daniel Bergandine ('15) and his wife Casey Lowder announce the birth of their son, Parker Greer Bergandine, on July 2, 2021.

Tim Brantley ('15) and Joy Davis announce the birth of their daughter, Anne Louise Brantley, on August 10, 2020.

Christian Bridges ('15) and his wife Haley announce the birth of their daughter, Waylyn Blake Bridges, on June 29, 2020.

John Edwards ('15) and his wife Jessica announce the birth of their daughter, Everly Ann Edwards, on March 14, 2019.

Jessica (Gibby) Sullivan ('15) and her husband John announce the birth of their son, Leonard James Sullivan, on August 24, 2021.

Taylor Grassi ('15) and his wife Ashley announce the birth of their son, Grant Taylor Grassi, on June 13, 2022.

Kevin Heyer ('15) and his wife Samantha announce the birth of their daughter, Lorelei Grace Heyer, on June 5, 2021.

Reagan (Howard) Tippens ('15) and her husband Travis announce the birth of their son, Locke Tippens, on September 25, 2021.

Ben Knosby ('15) and his wife Ashlyn announce the birth of their daughter, Ryan Marie Knosby, on April 2, 2020 and their son, Landon James Knosby, on May 29, 2022.

Patrick Leasure ('15) and his wife Alexis announce the birth of their daughter, Elleanor Elaine Leasure, on September 22, 2019 and their son, Noah Leasure, on May 7, 2021.

Tyler Lloyd ('15) and his wife Michelle announce the birth of their son, Oliver Wells Lloyd, on October 30, 2019 and their daughter, Nora Reagan Lloyd, on June 18, 2021.

Hadia Masood ('15) and her husband Naveed announce the birth of their daughter Alia on June 16, 2019.

Christina (Miller) Ricks ('15) and her husband Jeremy announce the birth of their son, Colton Scot Rick, on July 29, 2020.

Chase Pfindler ('15) and his wife announce the birth of their son, Ezra Pfindler, on October 30, 2021.

Uriel Quintero ('15) and his wife Eliza announce the birth of their daughter, Ximena Isabella Quintero, on August 19, 2020 and their son, Lando Ray Rivers, on October 25, 2021.

Aaron Rozelle ('15) and his wife Kyleigh announce the birth of their daughter, Elliott Leanne Rozelle, on April 11, 2022.

Laura (Sandtner) Chamberlain ('15) and her husband Brad announce the birth of their daughter Lila Jo Chamberlain, on June 7, 2022.

Ethan Smith ('15) and his wife Sarah announce the birth of their son, Mark Vincent Smith, on July 18, 2021.

Geoff Webber ('15) and his wife Christie announce the birth of their daughter, Maggie Elaine Webber, on January 26, 2021.

Kimberly (Abrams) DeOre ('16) and her husband Alan announce the birth of their son, Everett Alan DeOre, on January 11, 2022.

Matthew Carlson ('16) and his wife Wilson announce the birth of their son, Jedidiah Matthew Carlson, on March 23, 2021.

Michael Cuffney ('16) and his wife Krista announce the birth of their son, Bryson Cuffney, on September 13, 2020.

Billy Kish (Ph.D. '16) and his wife Amy announce the birth of their son, Liam Gabriel Kish, on September 22, 2021.

Jessica (Kruh) Dulkis ('16) and her husband Evan announce the birth of their daughter, Charlotte Jean Dulkis, on January 31, 2021.

Jennifer (Martinez) Solu ('16) and Travis Parker announce the birth of their daughter, Brynlee Hope Solu Parker, on June 30, 2019.

Charles McGowan ('16) and his wife Heather announce the birth of their son, Finan Jude McGowan, on June 2, 2021.

Bobby Oglesby ('16) and his wife Brianna announce the birth of their son, Grayson Oglesby, in August 2021.

Suzanne (Sumner) Russek ('16) and her husband David announce the birth of their son, Vincent Adair Russek, on March 27, 2022.

Nick Weidle ('16) and his wife Kristine announce the birth of their son, Emory Huynh Weidle, on September 14, 2021.

Chris Westerbeck ('16) and his wife Rachel announce the birth of their daughter, Andi Kate Westerbeck, on November 11, 2021.

Kyle Wolfe ('16) and his wife Lindsay announce the birth of their son, Grayson Andrew Wolfe, on July 14, 2020.

Jonas Bailey ('17) and his wife Kayla announce the birth of their daughter, Addison Lynn Bailey, on February 18, 2021.

Sierra (Croft) Kiser ('17) and Luke Kiser announce the birth of their daughter, Montana Kiser, on October 22, 2020.

Justyn Forehand ('17) and his wife Hannah announce the birth of their son, Theo James Forehand, on October 22, 2020.

Ross Garner ('17) and his wife Mindy announce the birth of their daughter, Mary Agnes Garner, on May 6, 2021.

Kayla (Hubert) Kennedy ('17) and **Keegan Kennedy** ('17) announce the birth of their son, Alton James Kennedy, on June 30, 2020.

Caitlyn (Joyner) Spiering ('17) and her husband Gunnar announce the birth of their son, Miles Henry Spiering, on November 4, 2021.

Keegan Kennedy ('17) and **Kayla (Hubert) Kennedy** ('17) announce the birth of their son, Alton James Kennedy, on June 30, 2020.

Zach Mundy (Ph.D. '17) and his wife Kristen announce the birth of their daughter, Collins Corinne Mundy, on July 17, 2020.

David Scanlan ('17) and his wife Brianna announce the birth of their daughter, Ella Rose Scanlan, on October 13, 2021.

Clarissa Wilson ('17) announces the birth of her son, Adonis Apollo McReed, on December 8, 2020.

Millicent (Blivin) Capstaff ('18) and her husband Tim Capstaff announce the birth of their daughter, Cecilia Mary Capstaff, on January 16, 2022.

Andrew Drake ('18) and his wife Miranda announce the birth of their son, Hartley James Drake, on October 31, 2018.

Joey Pippin ('18) and his wife Morgan announce the birth of their daughter, Lainey Rose Pippin, on March 19, 2022.

Petr Novotny (Ph.D.'19) and his wife, Lucie Novotna, announce the birth of a daughter, Maxicek Novotna, on November 25, 2018.

Chris Straub ('19) and his wife Nicole announce the birth of their daughter, Clara Mae Straub, on January 3, 2022.

Commencement

The alumni and student speakers at recent CBE commencement ceremonies were

May 10, 2019	Jeff Dugas ('90) and Donnielle Jones ('19)
December 3, 2020	Hal Lawton ('96) and Adam Craddock ('20) May and December 2020 ceremony (virtual)
May 13, 2021	Stacey (Guard) Orlandi ('94) and Samantha Gall ('21) (virtual)
August 7, 2021	Greg Hatem ('85) In-person ceremony for 2020 and May/summer 2021 grads
May 7, 2022	Trent Carrier ('94) and Jacob John ('22)

The number of ChE degrees awarded by our department continues to be very strong:

2018-19: 147 B.S. (123 with honors), 47 M.S., 13 Ph.D.
2019-20: 132 B.S. (112 with honors), 41 M.S., 21 Ph.D.
2020-21: 141 B.S. (116 with honors), 45 M.S., 20 Ph.D.
2021-22: 162 B.S. (147 with honors), 48 M.S., 27 Ph.D.

The total number of ChE degrees awarded at NC State now stands at 6,418 B.S., 1,045 M.S./M.Ch.E and 583 Ph.D. as of May 7, 2022.

The 2022 student speaker, **Jacob John**, compared the graduating class with extremophiles, bacteria that live at the bottom of the ocean and find a way to survive, and even thrive, in harsh conditions like the extreme temperatures and pressures found at hydrothermal vents. Jacob sees similarities between his fellow classmates and the extremophiles because despite the rigor of the degree, the pressure did not crush them. The class of 2022 was able to adapt to their difficult situation, which not only included the newfound independence and responsibility associated with attending college, but in this case, the tumult of attending college during Covid-19. You can watch the entire graduation ceremony on CBE's YouTube channel.



Jacob John

Lisa Bullard Receives Inaugural Provost's Award for Excellence in Teaching

Lisa Bullard has been named the recipient of the inaugural Provost's Award for Excellence in Teaching. Bullard, a teaching professor in the Department of Chemical and Biomolecular Engineering was honored for being a nationally-recognized teacher and advisor in engineering education.

"Dr. Bullard is a truly outstanding educator and an asset to the entire NC State community," said Executive Vice Chancellor and Provost Warwick Arden. "I want the Provost's Award for Excellence in Teaching to elevate the recognition of our valuable professional faculty and to provide further support for their outstanding work."

The Provost's Award for Excellence in Teaching is the most prestigious award for exceptional teaching given to professional full-time faculty from among NC State's 10 colleges and the University College. The award was established in 2021 to underscore the importance of teaching and to encourage, identify, recognize, reward, and support teaching within the university.

In a letter of support for Lisa's award nomination, Sydney Floryanzia, a Ph.D. student in chemical engineering at the University of Washington and a former student of Lisa's, writes: "She is a wonderful example of excellence in education both within her discipline of Chemical Engineering and beyond. In my almost 10 years of knowing her, she has been an amazing teacher, mentor, and consistent source of guidance and encouragement in my life. I owe so much of the person, researcher, and engineer I have become to the mentorship and teaching I

have received from Dr. Bullard and I know this to be true for many of her other students she has taught throughout the years."

Along with Richard Felder and Ron Rousseau, Lisa is a co-author of *Elementary Principles of Chemical Processes* (4th edition), used by 80 percent of chemical engineering departments worldwide. Lisa's research interests lie in the area of educational scholarship, including teaching and advising effectiveness, academic integrity, chemical engineering instruction, and organizational culture.

A faculty member at NC State since 2000, Bullard is an NC State Alumni Distinguished Undergraduate Professor and has won the NC State Faculty Advising Award and Outstanding Teacher Award. She is a Fellow of both the American Institute of Chemical Engineers and the American Society for Engineering Education, and is an associate editor of *Chemical Engineering Education*. Lisa received her Bachelor of Science in chemical engineering from NC State and her Ph.D. in chemical engineering from Carnegie Mellon University.

In honor of Lisa's contributions to the department, the Lisa G. Bullard Undergraduate Enhancement Fund supports activities that enhance the experience of undergraduate chemical engineering students. Activities that receive support from the fund include the senior banquet, educational and professional development materials, travel assistance for invited speakers, the freshman welcome event, commencement ceremony photography and mementos for graduating seniors.



Lisa Bullard



CBE Vision

Be a global leader in chemical and biomolecular engineering education and research with a continuing commitment to diversity, equity, and inclusion.

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Find us on socials @ncstatecbe

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Our donors make essential contributions, helping Louis Martin-Vega, dean of the College of Engineering, and Sindee L. Simon, head of the Department of Chemical and Biomolecular Engineering, meet their commitments to the department by directly supporting:

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