NC STATE UNIVERSITY College of Natural Resources

PULP & PAPER ANNUAL REPORT

2018
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Our Paper Science and Engineering program is thriving, and I am proud to say it is one of the best in the country. With a strong hands-on education, our students continue to advance our college’s mission of providing cutting-edge solutions for the sustainable use of natural resources.

The Paper Science and Engineering program boasts 100 percent job placement and some of the highest starting salaries on campus – in no small part because our students graduate with extensive experiential learning opportunities not found in the classroom. Thanks to our many industry partnerships, all of our students gain in-depth industry knowledge through internships, co-ops, and study abroad, and enjoy both personal and professional growth through their experiences.

We are pleased that with your help, so many of our students receive financial support through scholarships to pursue their passions in the paper industry. Many of our alumni, like Jacob Vrooman (page 18), begin their journey with a scholarship and an industry internship. These essential experiences and support are just the first steps to a successful career.

In addition to traditional financial support and one of the largest endowments per capita on campus, gifts-in-kind and gifts of time have become vital to training our students for their future endeavors (page 11). Alumni volunteers, like Jeff Reese (page 19), dedicate many hours to conducting mock interviews with students, giving guest lectures and providing crucial professional development opportunities. We also continue to have alumni like Rebecca Robertson Williams (’05), who recruit and recommend stellar students such as transfer student and Goodnight Scholar Marilu Salazar (page 12).

It brings me great delight to announce that Dr. Richard Venditti and Dr. Stephen Kelley (both featured on page 17) received named professorships this year. Professorships recognize outstanding faculty members and empower them to build innovative research programs addressing emerging opportunities in forest biomaterials that impact the economy, our quality of life, and environmental sustainability.

I am so proud of all our students, alumni, faculty, staff, volunteers and supporters. Your continued support of this prestigious program keeps our college robust and relevant in a constantly changing world. We are strong today because of the life-long commitment of so many. Thank you for all you do.

Mary C. Watzin
Dean, NC State College of Natural Resources
On behalf of the executive committee and board, greetings from the Pulp and Paper Advisory Committee! We are honored to serve in a leadership capacity for this wonderful group of dedicated individuals, serving a powerful industry.

We have many accomplishments this past year to be proud of:

- Fundraising $295,000 from corporate entities, $65,000 from individuals and adding $125,000 to existing or new endowments.
- Encouraging gifts in kind that we’ll be celebrating this year including an upgrade to the wet end of the Wolfpack Baby paper machine from IBS; a tissue creping simulator from Kemira; and PI Process book free-license software from OSIsoft to name a few.
- Providing the support of our industry that places our graduates at the top of all engineering disciplines for starting salary and job placement.
- Engaging alumni through class contests, reunions and local events so that we all continue to be a part of our “paper science family” no matter the years or the distance.

We have a lot to be thankful for and it would not happen without the involvement of our board members, dedicated alumni and friends, industry partners and the College, Department and program faculty and staff.

While we have continued to see record breaking attendance at foundation meetings and other events, as well as within the board and on committees, we encourage you to continue to advocate on our behalf. We always welcome new industry partners, committee members, board members and volunteers. Our excellent program and reputation were built on generations of volunteers and advocates before us. We encourage each one of you to help us pursue our goal of a world class, world renowned program.

We look forward to a new academic year with a robust freshman class, as well as new additions to our rising sophomore group; a Paper International Experience (PIE) Trip to plan, two graduation ceremonies and countless visit with alumni and industry partners.

Thank you for your dedication, support and time. GO WOLFPACK!

Ronnie Campbell  
President, NC State Pulp & Paper Foundation  
Class of 1978

Jennifer Piercy  
Executive Director, NC State Pulp & Paper Foundation  
Class of 1994
UPDATE ON THE PSE PROGRAM
2017-18
Dr. Med Byrd

Enrollment in the PSE undergraduate program continues to hold steady, with about 185 students distributed across the four years. Approximately 60% of those students are pursuing the dual degree in Chemical Engineering.

Our recruiting efforts continue to produce good results. We had 31 new incoming students last fall and have 37 coming in for the upcoming semester. In the past 4 years, three cohorts have been at or above 40% female, due to focused efforts to improve our gender diversity. We are now turning that same level of intensity to improving our ethnic diversity. Overall, 13% of the student body is from out of state, representing 14 different states.

On-campus transfers are an important source of new students for PSE. While the attrition rate for new incoming students is 20-25% in the first two semesters (mainly students who are not sure what they want to do), this loss is more than made up for by the addition of 15-18 first- and second-year students from other programs on campus. Since these students come to us “pre-vetted,” they end up being highly successful.

Thirty-seven students graduated from the program last year (15 in December, 22 in May). Job opportunities were again abundant, and the placement rate for the year was 100%. It should be noted that there are an increasing number of opportunities with suppliers of chemicals, equipment, and technology. Graduates with the dual degree continue to see a wide array of job options with companies outside the industry (e.g. Exxon-Mobil, Dow), although most accept offers from companies in and allied with the paper industry. The average starting salary of $73,500 is one of the highest on campus.

A new faculty member, Dr. Nathalie Lavoine, joined us this year and is now on-boarded. She brings impressive experience in packaging and biomaterials, two exciting growth areas for the industry. She is developing a course in packaging, which we hope to deploy in the spring semester of 2019.

PSE faced two retirements in the past year. After almost 14 years of tireless service, student support specialist, Pat Hill retired. Of course, this caused us much concern, but as of this writing we have welcomed Brittany Hayes to our team. She is energetic, dedicated and passionate about career and student services. We look forward to another vigorous fall recruiting season with Ms. Hayes leading the way.

After 42 years of service, advising, and administration, Dr. Adrianna Kirkman announced her retirement, effective July 1, 2018. We all appreciate her incredible contributions to the success of PSE and CNR, and we wish her the best in retirement. Her teaching responsibilities are being distributed across the current faculty members.

With regard to the curriculum, we deployed the new “track” system for students pursuing the single PSE degree. Students must select course electives that put them on one of the following tracks: Chemical Engineering Starter Track; Business Management Track; Process Control Certificate Track; Chemistry Track; Sustainable Materials and Technology Track. Approximately 10 students are pursuing the Process Control Certificate, which is being received with a great deal of excitement.

Last year saw major investments in our labs and pilot plant. Capabilities were added in tissue manufacturing and analysis, as well as in papermaking. Included in these additions was a high-speed tissue creping simulator, the only one of its kind in the world. We successfully used internal funds to leverage over half a million dollars in donated funds and equipment. In the upcoming year, we expect to add similar capabilities in packaging design and manufacture. We also plan to add more advanced sensors to the baby paper machine, as well as capabilities to capture and analyze “big data” generated by those sensors.

The sustained success of PSE is due in large part to the continued support and generosity of our alumni, friends, and corporate partners. Thank you for all that you do for this program.
Joshua Allmon  
Zebulon, NC

Kyra Attridge  
New Kent, VA

Allison Belsito  
Wilmington, NC

Timothy Bizzell  
Wilson, NC

Annie Chen  
Raleigh, NC

Cara Christianson  
Fuquay Varina, NC

Sarah Coull  
Clayton, NC

Heaven Davis  
Conover, NC

Erik Dahlgren  
Wilmington, NC

Gray Emberland  
Apex, NC

Carlton Emerson  
Blue Ridge, VA

Morgan Gardner  
Cherryville, NC

Larden Garland  
Zebulon, NC

Abigail George  
Littleton, NC

Matthew Hinson  
Greensboro, NC

Kara Hollar  
Dunn, NC

William Hough  
Mount Pleasant, SC

Michael Hughes  
Raleigh, NC

Haiden Jones  
Bolivia, NC

Matthew Klassa  
Cary, NC

Katherine Krull  
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Natalie Laux  
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Elise McCabe  
Mason, KY

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Burlington, NC

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Pfafftown, NC
CONGRATULATIONS to our upperclass scholarship recipients!

Michael Alcivar  
Austin Batchelor  
Aitana Blevins  
Jared Boyd  
Erik Braun  

Aldo De Leon Resendiz  
Jeremy Gwiazdowski  
Michael McKenzie  
Sam Melikian  

Spencer Payne  
Aidan Royals  
Nick Starrett
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Scholarship
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Albright & Wilson
Alonzo Aldrich Scholarship
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Barre R. Mitchell
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BioResources Scholarship
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BioResources Sophomore SuperStar
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Boise Cascade Corporation
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Carol and Carter Fox
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Class of 1970
Cline Peters
Continental Forest Indus.
Dietrich V. Asten
Dr. Fr. B Schellhorn
Dr. Hou-min & Anne Chang
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Hasan Jameel Family
Hazard H. & Ada Credle May
Hercules Employees
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Inland/NC State Alumni
International Paper Co.
IP Riegelwood/NCSU Alumni
Irene Flowers Crisp Memorial
Jacob C. Belin Tressa Glackin
Jacobs Engineering Group
James Buzzard
James Buzzard
James Heider Memorial
James M. Piette
Jim and Paula Bowen
John A. Heitmann, Ill
John L. Moore
John Milton May, Jr
John R Kennedy Scholarship
Kadant Scholarship
Kemira
Kirk Samke
L H Camp

Scholarship
Russell Aryeeey
Landon Deberry
Thomas Moretz
Ethan Schwartz
Brianna Ochoa
Taylor Krakuszewski
Autum Satterfield
Claudia Patterson, Megan Yang
Jake Forte, Matthew Frink, Allison Hellwig
Samuel Melikian, Zebadiah Murray
Brooke Orr
Ronald Senchak, Brendan Tumprey
Tressa Glackin, Daniel Lucas, Braden Oakes
Kadyn Peterman
Austin Emery
Thomas Cluen
Manon MacAllister
Timothy Bizzell
Allison Hellwig
Michael Jones
Braden Oakes
Ronald Senchak
Connor Nance
Aitana Blevins, Michael Jones
Morgan Gardner, Jaylan Paige
Austin Starnes
Patrick Fazekas, Abigail George
Emillyan Hallow
Daniel Richardson
Michael McKenzie
Alexander Moon, Bailey Tebou
Nathan Hsieh
Michael McKenzie
Jared Wolfe
Breonda Sneed, Jonathan Swope
Nicholas Costello
Allison Brockman
Audra Chenoweth
Andrea Sanchez-Zarate
Jake Forte, Benjamin Mason
Spencer Payne
Katherine Santoro
Matthew Frink
Cory Gibson
Ryan Lee
Erik Braun, Daniel Richardson
Aidan Royals
Rukmini Arcot, Aidan Royals
Lillian Humphries
Michael Alcivar, Meagan Harrison
Brandon Long
Joshua Allmon, Mary Wallace
Andrew Harwick, Ethan Schwartz
Brandon Long
Winslow Gurney, Meagan Harrison
Kara Holland
Jared Boyd, Evan Morris
Alex Ward
Larry Amorielo
Emillyan Hallow
Tanner Evans, Claire Hammontree
Austin Batchelor
Kathryn Clayson, Jonathan Swope
Tyler Warlow
Ryan Lee
Kathryn Clayson
Katherine Santoro
M. Lebby Boinest, Jr.
Magdalene Thompson Donald
Mark J. Alexander Memorial
Mary Ellen May Johnson Scholar
Mead Westvaco
Metsro Paper
Michael I. Sherman
Mill Town Legacy, Domtar, Kingsport, TN
Nalco Chemical Co.
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OMNOVA Solutions
Paper Chase
Paper Science & Engineering Class Schp.
Paper Science Schp.
Phillips Family
Phillips Family Leadership Schp.
PulP & Paper Freshmen Schp
PulP & Paper Freshmen Schp
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William V. Cross / Nalco Chemical
Will P. Lovin
Wayne and Harriet A. Barlow
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William R. Poole Scholarship
William V. Cross / Nalco Chemical

Student
Katherine Santoro
Kathryn Clayson, Jonathan Swope
Tyler Warlow
Ryan Lee
Kathryn Clayson
Katherine Santoro

Student
Erik Braun, Grant Swisegood
Sarah Pumphrey
Kyra Attridge, Claudia Patterson
Kable Young
Ethan Schwartz
Autum Satterfield, Matthew Sholar
Carolyn Songey, Cameron Ochs
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Art & Kathie Raymond  
Allen Sanders  
C. Wesley Smith  
Larry & Nancy* Tombaugh  
Frances Holloway Wynne*

* Deceased
Thank you from the bottom of our hearts for the many ways in which you support our program and students. The variety and depth of your support enables us to provide a premier education and world class talent to our industry.

New Scholarship Endowments
Scholarships are the lifeblood of our ability to recruit high achieving students each year. In fact, most alumni know that we would not have thought about our degree if someone had not mentioned the word “scholarship.” This past year we had seven newly created endowments that will help us as we recruit the best and brightest students to develop into industry professionals:

The Su Family Scholarship established by alumnus Paul Su (‘98) and his wife Anthea (‘98) in memory of his parents.

The Hight Family Scholarship established by alumnus Clark Hight (‘86) and her daughter, Alex, who will graduate in December 2018.

The Dennison Family Scholarship established by Mike Dennison (‘75).

ExxonMobil PSE Alumni Scholarship established by a group of our PSE alumni that work at ExxonMobil.

Class of 1977 Scholarship established by this class as a result of their 50th anniversary reunion.

The Medwick Byrd Family Scholarship established by Dr. Byrd, class of 1984 and current undergraduate coordinator and professor.

The Paper Science & Engineering Leadership and Service Scholarship established on behalf of the entire Pulp and Paper Foundation advisory committee.

Annual Giving
Our program greatly benefits from gifts of all amounts by our alumni and individual donors. Our class participation contest has had an impact on giving from our newest alumni, to alumni who have been engaged givers for more than 50 years and to those who are making their first gifts ever. We have seen our total annual giving (gifts less than $25,000) double in the last four years from $94k to $191k. We have also realized an increase in our annual corporate gifts by 150% in the last five years.

Gifts in Kind
One of the most prominent “selling features” of our program to industry and students alike is our hands on application of engineering concepts. This is realized through internship and co-op work experiences and a delicate balance of lecture and lab based learning. This past year we were excited to receive numerous gifts in kind:

Kemira donated a Crepe Simulator (CS) Unit for advanced tissue research, teaching and technical services. This is a “one of a kind” unit that operates at speeds of up to 10 meters per second with a variety of adjustable operating parameters.

IBS Paper Performance Group upgraded the Wolfpack baby paper machine forming section with their iTable and iFoil technology. These upgrades significantly improve our paper pilot capabilities for teaching, research and technical services.

OSIsoft provides continued support via free-license PI process book while also helping to develop a smart testbed using our pilot machine as a demonstration asset. This is available for use by students, academia and industry.

Valmet has upgraded 30 licenses for WinGEMS. This process simulation tool remains a required part of our paper science and engineering curriculum.
Marilu Salazar, a Paper Science and Engineering and Chemical Engineering double major, took the road less traveled to finding her majors. A Goodnight Scholar transfer student from Nash Community College (NCC), Salazar always knew she wanted to be an engineer, studying at one of the top-rated colleges in the state. However, she didn’t know how exciting paper science and its varied applications could be.

Salazar first began her journey at NCC, where she met Rebecca Robertson Williams (PSE/CHE Class of 2005), her Chemistry Instructor. Williams inspired Salazar to branch out and consider the paper path. Without Williams’ guidance and passion for paper engineering, Salazar would not have found her home at the College of Natural Resources.

“Being a transfer student, I didn’t know what to expect from NC State,” Salazar said. “But my transition was smooth and I received a lot of help. The most important thing I’ve learned so far is that everyone is willing to help you. The faculty are here to see you succeed and achieve your goals and the friends you make are here to support you and are probably going through the same things you are. It’s only a matter of reaching out to them and not being afraid to ask for help when you most need it.”

Although she is new, Salazar wasted no time jumping right in to gain hands-on experience in her fields of study. She recently completed an internship at Bridgestone in Wilson, NC, where she helped with quality testing and sample collection and learned how to create a tire from rubber. Her main project was to determine under what conditions rubber should be stored to maintain its ideal shape.

In addition to her hands-on experiences, Salazar is also taking advantage of the many networking and professional development opportunities available to College of Natural Resources students. She applied to be a CNR Engaging Leader and joined the NC State Women’s Center and GLBT Center.

“To incoming students, I would say to take advantage of everything that NC State and the College of Natural Resources has to offer. The college is helping me be more confident in myself. I have been trying to get out of my shell by being more involved and facing new challenges and CNR has a lot of opportunities for students. I know not everyone can join every club, but joining at least one club can get you out there.”

No matter where their paths meet, Paper Science and Engineering alumni inspire future students.

“I know I will have lots of new opportunities in the future thanks to Mrs. Williams, NC State and the College of Natural Resources,” Salazar said. “I am happy and excited about joining the Wolfpack!”

I love telling my students about the great experience I had in the Paper Science and Engineering program! I am so thankful to have been surrounded by such supportive professors and friends during my time at NC State. I have been teaching for ten years and tell every class about my experiences. Students seem to enjoy hearing “yet another paper story,” knowing it will be a few minutes before we dive back into the curriculum. The school and the industry were good to me. I’m so glad that I can give back by telling great students like Marilu about the program. We miss her already at NCC but I know she will do amazing things as part of the Wolfpack!

Rebecca pictured with daughter Caroline, husband Anthony and son Marshall
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## Fiscal Year End 2018

### INCOME

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<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<td>Membership Gifts, Corporate</td>
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### GIFTS IN KIND

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### TRANSFERS

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### ACCOUNT BALANCES

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<td><strong>$1,048,216</strong></td>
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Our foundation is grateful for the continued support of our corporate donors and the individuals within their organizations who make NC State a priority. We recognize the many ways that companies support our efforts: corporate gifts, the hiring of summer interns, co-ops and graduates and various other activities and efforts throughout the year.

THANK YOU!

### PLATINUM $20,000+

<table>
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<tr>
<td>Georgia-Pacific</td>
<td>FULL-TIME, INTERNSHIP, CO-OP</td>
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<tr>
<td>ABB</td>
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<tr>
<td>Domtar</td>
<td>FULL-TIME, INTERNSHIP</td>
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<tr>
<td>WestRock</td>
<td>FULL-TIME, INTERNSHIP, CO-OP</td>
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<td>ANDRITZ</td>
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<tr>
<td>PCA</td>
<td>FULL-TIME, INTERNSHIP</td>
</tr>
<tr>
<td>INTERNATIONAL PAPER</td>
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### GOLD $10,000 – $19,999

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<td>Solenis</td>
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<td>Rayonier Advanced Materials</td>
<td>INTERNSHIP</td>
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<tr>
<td>Cascades</td>
<td>GREEN BY NATURE</td>
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<td>Sonoco</td>
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<tr>
<td>Kapstone</td>
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### SILVER $5,000 – $9,999

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<td>INTERNSHIP</td>
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<tr>
<td>Kemira</td>
<td>INTERNSHIP</td>
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<td>VOITH</td>
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### BRONZE $2,500 – $4,999

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<td>TAPPI</td>
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<td>Thiele Kaolin</td>
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Dr. Stephen Kelley was recently named the Reuben B. Robertson Professor, an honor indicative of both his prolific career in industry and at NC State. As one of only five named professors in the Department of Forest Biomaterials, Dr. Kelley believes that this award will hold him accountable as a leader in biomaterials and bioenergy systems research as well as projects across the university.

The Reuben B. Robertson Professorship was established in 1953 from shares of Champion Paper stock given to the former Pulp and Paper Foundation, which has merged into the Natural Resources Foundation. The stock was given to honor Reuben B. Robertson, an industry leader and former chairman of the Board of Champion, who was instrumental in providing support for the beginning pulp and paper program at NC State.

Dr. Kelley is currently teaching a series of classes in Forest Biomaterials and Sustainable Materials and Technology, in addition to running a lab. He recently took a one-year sabbatical to teach, conduct research and create more opportunities for international exchange students. Dr. Kelley has numerous publications and has been a PI or Co-PI for more than $16 million in funded research proposals. He holds 15 patents and is passionate about research in cellulose polymers, bioenergy, and systems integration and modeling, and his expertise in these fields makes him a vital part of the department.

He began his career at Eastman Chemical Company in Kingsport, Tennessee, where he worked on cellulose chemistry. After five years with Eastman, he worked at Bend Research, a small membrane company. Dr. Kelley then spent 13 years at the National Renewable Energy Laboratory, where he worked on bioproducts and bioenergy. His experience in the industry was valuable to his professional development and feels that when professors work in the industry, it allows them to have a better practical understanding of what they are teaching.

Sture G. Olsson established the Elis and Signe Olsson Professorship in 1971 in honor of his parents, Elis and Signe Olsson. The purpose of the professorship is to strengthen the pulp and paper science and technology program at NC State. The professorship is awarded to someone with an established reputation in the pulp and paper community and the College was excited to award it to Dr. Richard Venditti this year.

Dr. Venditti graduated from NC State with degrees in Pulp and Paper Technology and Chemical Engineering. After receiving his PhD in Chemical Engineering from Princeton University, Dr. Venditti came back to our department as a professor. His focus areas are natural polymers in new products and fuels, separation science in fiber processing and environmental life cycle analysis. He has published more than 100 articles and holds two patents.

Dr. Venditti is also a TAPPI Fellow and has received numerous awards for his research and teaching, including becoming a Fulbright Specialist in Environmental Science and the Advocacy Award from the NC State African American Graduate Student Association. He also serves in a variety of international roles including Honorary Faculty of the University of Kwazulu Natal, South Africa and Visiting Faculty Member at the University Jean Monet, France.

Today, Dr. Venditti is leading a large interdisciplinary project to train teachers and support economic development associated with the growing bioeconomy in rural North Carolina. He’s also the director and co-teacher for the Hands-on Workshop for Pulp and Paper Basics, an industry outreach program sponsored by NC State and TAPPI that has helped more than 2,000 industry employees better understand the fundamentals of the paper industry.
Jacob Vrooman, a 2013 Paper Science and Engineering alumnus, has taken a professional journey that looks a lot like Domtar’s company’s path in recent years. Turning his experience in pulp and paper production to innovation in absorbent hygiene products, Vrooman has crossed both Domtar’s business divisions and the Atlantic Ocean as he contributes to their success.

As an engineering student in 2009, Vrooman interned at Domtar’s Ashdown Mill in Arkansas. Less than a decade later, he’s a product commercialization manager in Madrid, Spain, who holds a patent for his contributions to absorbent hygiene technology in Domtar’s Personal Care business.

The Internship That Launched a Career

Curiosity brought Jacob Vrooman to where he is today. As a high school student in Virginia, he planned to study chemical engineering in college. Unexpectedly, he was invited to compete for a scholarship in the highly specialized Paper Science and Engineering program at NC State University in Raleigh. The uniqueness of the program — along with the program’s smaller class sizes and nearly 100 percent job placement — appealed to him, and the scholarship sealed the deal.

Domtar actively recruits students and new graduates for internships, co-ops and full-time positions from NC State. After just one semester in college, Vrooman began a five-month placement in quality assurance at the Ashdown Mill. “I hadn’t taken any classes yet in paper science,” he said, “but I received helpful on-the-job training and dedicated supervision. The investment enabled me to complete meaningful projects.” During his final semester in college, Vrooman was looking for an opportunity to expand his horizons. He landed a part-time job in the lab at Domtar’s newly opened Personal Care headquarters in Raleigh. Senior scientist Harry Chmielewski noticed right away that Vrooman “had the curiosity that good technical people always have.”

“From day one, he had the creativity to make meaningful contributions to R and D initiatives,” Chmielewski said.

Working alongside industry experts, Vrooman contributed to research that eventually led to a material patent. The innovation gives Domtar a high-performing absorbent core that can be used in multiple applications.

As soon as he graduated, Vrooman jumped at the chance to take a full-time position at the company’s manufacturing plant in Greenville, North Carolina, about 90 miles east of Raleigh. “Because the absorbent hygiene market is evolving quite rapidly, there’s a high demand for new and more effective product solutions. Domtar Personal Care’s dedication to meeting this challenge aligned perfectly with my desire to solve problems,” Vrooman said. At Greenville, Vrooman managed the maintenance and new product development for absorbent underpads, which are widely used in acute- and extended-care facilities. He was soon promoted to product development engineer, and he expanded his skill set to include other absorbent hygiene products, raw materials and technologies.

Finding New Challenges in Spain

As the next step in his career, Vrooman recently accepted a position at Domtar’s European headquarters in Madrid, where he welcomes the challenge of living in another culture and learning a new language. “The late meal times have been one of the most challenging adjustments,” he said. “We eat lunch at 2 pm! But it is always worth the wait, Spanish cuisine is fantastic.”

In Madrid, he works with the product development team to strengthen Personal Care’s partner-brand offerings. He’s also passionate about innovation. “I’m particularly excited about partnering with Engineered Absorbent Materials (EAM). We are designing products that leverage EAM innovations, such as NovaZorb® to dramatically improve product performance,” he said.

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What advice does Vrooman have for someone starting a career in this industry?

“Reach a little outside of your responsibilities, without going rogue,” he said. “Try to foresee the next step or connect what you are doing to the big picture. Staying curious is key.”

Jacob Vrooman, Class of 2013, with his patent plaque
Jeff Reese, a 1985 NC State alumnus with degrees in Pulp and Paper Technology and Chemical Engineering, was recognized with TAPPI’s highest individual honor, the Herman L. Joachim Distinguished Service Award, at PaperCon in April 2018. Established in 1983, this honor is presented to an individual for exemplary leadership that has significantly contributed to the advancement of the Association.

Dedicated Service to Others
Reese’s commitment to the pulp and paper industry goes beyond his extensive work with TAPPI and 33-year career with companies like Poyry-BEK, Valmet-Enerdry, Georgia-Pacific, and International Paper. He is deeply dedicated to recruiting and training young engineers, and an active participant in many facets of the NC State’s Paper Science & Engineering program, including serving at the vice chair of the program advisory committee. He provides guest lectures for Dr. Ronalds Gonzalez’ senior design class and Dr. Med Byrd’s freshman leadership class.

Each year, Reese spends a week on campus conducting mock interview with freshman PSE students to help them prepare to get internships and jobs. He meets with each of them, helping them improve their resume and tailor their stories to secure jobs.

“My two favorite hobbies have been TAPPI and working to recruit, engage and train new engineers into the pulp and paper industry,” Reese said while accepting the Joachim Award.

“I’ve been leading recruiting at NC State and helping with training engineers for 22 years now – starting before the current students were born. I’ve had the chance to help train and develop over 900 engineers in this time. Some of the early classes were about 20 engineers per year. Our most recent class has over 150 new paper, chemical, mechanical, environmental, and safety engineers,” he said.

Sharing his Passion with Family
Reese has also passed his love for both NC State and engineering on to his three children. His daughter, Diana, graduated from NC State in 2016 with a bachelor’s degree in paper science and engineering. His son, Jonathan, is currently double majoring in electrical engineering and computer engineering at State, and his youngest, Joanna, a high school sophomore, hopes to study engineering in college as well.

Contributions Beyond This Award
A TAPPI Fellow since 2004, Reese received the Engineering Division Technical Award and Beloit Prize in 2007, the Paper and Board Division Technical Award and Harris O. Ware Prize in 2010, and the Paper and Board Division Leadership and Service Award in 2016. At PaperCon 2015, he shared the podium with his father, Gunnar Nicholson Gold Medalist Dick Reese; and his daughter, Diana, for “Back to the Future in Papermaking – Three Generations of Perspective.”

“Jeff is the epitome of a dedicated volunteer to our industry, TAPPI and NC State. He constantly challenges the status quo to keep our program and students at a world class level. We are so excited and proud of Jeff and his accomplishments!”

Jennifer Piercy, Executive Director, Pulp and Paper Advisory Committee

Jeff is pictured here at daughter Diana’s graduation with his wife, Susan, son Jonathan, daughter Joanna and parents Dick and Diane
ALUMNI LISTING

Paper Science & Engineering Program Graduates from the Department of Forest Biomaterials
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*Deceased*
HANDS-ON AND FUTURE FOCUSED

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