NC STATE PULP & PAPER FOUNDATION
ANNUAL REPORT 2014
CELEBRATING 60 YEARS 1954 - 2014
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PAST PRESIDENTS

E.J. Gayner III * 1952 – 1955
Dwight Thomson 1955-1957
Sture G. Olsson * 1957-1959
Charles S. Huestis * 1959-1961
Charles E. Hartford * 1961-1963
H.Y. Charbonnier * 1963 – 1965
E.H. Graves 1965 – 1967
R.J. Leahy * 1969 – 1971
F.B. Schelhorn 1971 – 1973
L.H. Camp * 1977 – 1979
C.C. Peters * 1979 – 1981
J.M. Pette 1981 – 1983
J. Robert Carpenter 1987 – 1989
Joe K. Donald 1993 -1995
Jerry H. Ballengee 1997 -1999
A. Ben Groce 2001 – 2003
Bob Harley 2003 – 2005
Jim Bowen 2005 – 2007
Lou Boos 2007 – 2009
David Hickman 2009 – 2011
Ronnie G. Hise 2011 - 2013

* Deceased
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REPORT FROM THE PRESIDENT
C.A. MCDONALD

Greetings on behalf of the Pulp & Paper Foundation!

It has been an honor to transition into the role as your Foundation President this past year. We have been very busy and I would like to share with you some highlights from this amazing year. Before I share those highlights, I would like to take an opportunity to thank our NC State Pulp & Paper Foundation Board members for their time, talents, and their contributions to NC State University, the College of Natural Resources and most especially Paper Science and Engineering. The board members played a vital role in our achievements this year that include:

- NC State Pulp & Paper Foundation’s 60th Anniversary
- Raising $186k in corporate gifts and $63k in individual gifts with 93% Board participation in that effort
- $1,000,000 Phillips Family Leadership Incentive for a business minor - our largest individual gift ever
- The Boos family $25,000 contribution for student international experiences
- The Pulp and Paper Foundation’s Mission Review - Advisory Board and stakeholders reviewed our mission and asked; “Why do we exist?”
- The Pulp and Paper Foundation’s Value Proposition - our answer defined
- Development Committee Separation - created Corporate and Individual Development Committees to focus our message to different groups

As we celebrate our 60th Anniversary of the NC State Pulp & Paper Foundation, I could not be more proud of our corporate supporters, alumni, friends, and volunteers that make all this possible. Our students are the greatest beneficiary of our hard work and engagement. And…isn’t that why we are all engaged with NC State University?

Happy 60th Anniversary Pulp & Paper Foundation!

C.A. McDonald
President, NC State Pulp & Paper Foundation
General Manager, Rayonier Advanced Materials

REPORT FROM EXECUTIVE DIRECTOR
JENNIFER PIERCY

Not only are we celebrating the 60th anniversary of the Pulp & Paper Foundation, but this year also marks the kickoff of a historic campaign for North Carolina State University. The Accelerate NC State campaign will provide the resources we need to realize our full potential as an agent of change. Private funds raised through this landmark, multi-year effort will enable NC State to transform the student learning experience, build the most entrepreneurial faculty in the nation, and harness the power of local and global partnerships to solve 21st-century problems.

You will be hearing more from me in the coming months about this campaign and how the College of Natural Resources and more specifically, the Pulp & Paper Foundation will be taking an active role in this University-wide effort. I look forward to sharing that vision with you and how you may play a role in the success of this exciting campaign. The Natural Resources and Pulp & Paper Foundation are widely known for our successes, and I hope to continue this image throughout this campaign.

As always, your help with connecting, cultivating, collaborating, and contributing this past year and in the future is greatly appreciated! Our success is based on your engagement.

Thank you for a terrific year!
MESSAGE FROM THE DEAN
MARY C. WATZIN

A hearty congratulations and thank you to the Pulp & Paper Foundation for 60 years of promoting our outstanding Paper Science and Engineering program! This year is also the 85th Anniversary of the College of Natural Resources. We have come a long way from the gentlemen pictured (below) in front of the bus in rural North Carolina.

Our college was formed to serve the needs of the State of North Carolina, and today we not only serve our state, but the nation and the world!

In our great state of North Carolina, the College of Natural Resources serves some of the largest economic sectors including the state’s largest manufacturing industry, forest and wood products, the largest service sector, tourism (that includes golf), and more than half a million private forest land owners. The combined economic impact of these sectors approaches $50 billion, with direct employment estimated at 558,000.

On a national level, our college now boasts 7 TAPPI Fellows, the largest number of any university across the country! We congratulate our latest (2014) TAPPI Fellow, Medwick (Med) V. Byrd, Jr., for his extraordinary contributions to the industry.

It is pure coincidence that the picture to the left features both Med Byrd and an extraordinary student success story. Med is holding the feminine hygiene product manufactured by Sustainable Health Enterprises (SHE) in Rwanda. CNR junior Tyson Huffman spent most of last year in Kigali leading the effort to build the new facility that now manufactures 1,000 sanitary pads a day. The pads are made inexpensively from locally grown banana tree waste. This sustainable solution has the potential to transform the lives of Rwandan women by allowing them to attend school and hold jobs without monthly absences. Tyson is truly making a difference in the world. He is a shining example of the “Think and Do” motto of the University! More can be found about Tyson and his work at news.ncsu.edu/2014/05/tyson-huffman

There is so much I look forward to sharing with you in the very near future. The faculty and staff of the college have been working diligently to revamp our website, enhance our brand, and put our strategic vision for the college into action. Between now and November, we will be rolling out our new strategies and ideas in a series of 85th Anniversary events. You can find a list of the 85th events, symposiums, and panel discussions on our website: www.ncsu.edu/cnr/85th Please join us for one or more of these events celebrating our college.

I look forward to seeing you this fall.
As we celebrate the 60th Anniversary of the NC State Pulp & Paper Foundation, we also celebrate a 25 year record enrollment in the PSE program with 176 students. In the fall of 2014, 41 freshmen will be entering our program. We continue to attract academically gifted students and increase our ethnic, gender and regional diversity.

To give you a snapshot of the quality of our incoming freshmen, look at these statistics:

- The average SAT score is 1320
- The average math SAT score is 710
- The average weighted high school GPA is 4.67

While we can boast about SAT, math, and GPAs, we can also boast about the diversity of our incoming freshmen, their impressive high school student involvement, and their positive spirit as they enter North Carolina State University. We continue to be a magnet for out of state students with the Paper Super Scholar Program. This year, five of our eight super scholar candidates enrolled in our program.

Summer internships, co-op programs, and permanent jobs are abundant for our PSE students.

- 11 out of 41 freshmen had summer internships (27%).
- In the fall of 2014 we will have a record number (20 students) engaged in a semester co-op program. That is 11% of the student body of PSE.
- More and more students are doing at least one co-op rotation.
- Permanent jobs and offers for our graduates are up, with most students considering multiple offers.
- Placement rates in permanent jobs at graduation remains at 100% for 2013-2014.

I would like to share an update about Tyson Huffman, a junior in our program that spent the last year in Rwanda. As some of you may have heard, Tyson started a manufacturing facility in Rwanda that will enable manufacturing of low-cost feminine hygiene products made from local banana stem materials. Tyson is back at state this fall with an incredible story to tell. You can read more about Tyson and his accomplishments at: news.ncsu.edu/2014/05/tyson-huffman

The PSE program will face some challenges and changes in the coming months as we seek to fill multiple vacancies; Dr. John Heitmann will be retiring in December, 2014, Dr. Orlando Rojas has headed to another university, Dr. Sudipta Dasamohapatra has moved to another department, and Dr. Richard Phillips will also be retiring.

Please know, we will be mounting a national search for the aforementioned open positions to be sure NC State secures the most highly competent and passionate faculty for PSE.

Another exciting and successful year for PSE! It would not have been possible without the sustained support, financial and otherwise, of our alumni, friends, and corporate and industry partners.

Thank you for your time, dedication and effort.
MEET THE CLASS OF 2018

Russell H. Aryeetey
Mooresville, NC

Mark E. Bedard
Dallas, NC

Charles L. Benton
Cherryville, NC

Benjamin Branzelle
Sutherland, VA

Landon C. Deberry
Roanoke Rapids, NC

Quentin Doutt
Greensboro, NC

Sumner C. Dudick
Charlotte, NC

Austin M. Emery
Wilmington, NC

Trevor J. Gamache
Summerfield, NC

Addison Garrigus
Wilmington, NC

Maria Gore
Raleigh, NC

Colin Hall
Advance, NC

Jessica Hardison
Hampton, NC

William Hart
Winston-Salem, NC

Chase Hayhurst
Siler City, NC

Christopher Hering
Cary, NC

Alexandra Hight
Pawleys Island, SC

Peyton J. Holste
Wake Forest, NC

Jeffrey Hunter
Jamestown, NC

Michael G. Jones
Cary, NC

Charles Knoll
Herndon, VA

Taylor Marie Krakuszewski
Wilmington, NC

Christopher Lagaly
Roxboro, NC

Michael Larkins
Fayetteville, NC

Connor Lenze
Summerfield, NC

David Lovato
Oak Ridge, NC

John Mayo
Wilmington, NC

Douglas Moore
Rocky Mount, NC

Kaleb Morrow
Forest City, NC

Karl E. Orejola
Charlotte, NC

Logan G. Parson
Michie, TN

Sarah Pumphrey
Millersville, MD

Jacob Rooks
Morganton, NC

Austin Starnes
Littleton, NC

Mark Sullivan
Littleton, NC

Bailey J. Tebou
Charlotte, NC

Shelton Thurman
Savannah, TN

Margaret Tobey
Raleigh, NC

Jensen Vellaringattu
Raleigh, NC

Jared C. Wolfe
Advance, NC

Kable V. Young
Greensboro, NC
UPPER-CLASS SCHOLARSHIPS FOR FALL 2014

ALBANY INTERNATIONAL SCHOLARSHIP
Albright and Wilson Scholarship
Alcestis Aldrich Scholarship
Arroyo Family Scholarship
ASA Brown Bowen Scholarship
Barlow Scholarship
Barre Mitchell Scholarship
Bill Cross/ Nalco Scholarship
Binkley Memorial Scholarship
Bioresources Scholarship
Bioresources Scholarship
Bioresources Scholarship
Bob Menard Scholarship
Boise Cascade Scholarship
Bowater Scholarship
Brown & Root Scholarship
C. Cline Peters Scholarship
Carteret Industries Scholarship
Carol & Carter Fox Scholarship
Cascades Tissue Group Scholarship
Charles N. Rogers Scholarship
Charles W. Coker, Sr. Scholarship
Clariant Corporation for Chemical Studies Scholarship
Class of 1966 Scholarship
Continental Forest Industries Scholarship
David and Doris Bossen Scholarship
Dietrich V. Asten Scholarship
Dr. Fred B. Schelhorn Scholarship
Dr. Hou-min & Anne Chang Scholarship
Drs. Li-Sho and Lee-Fun Chang Scholarship
Dwight Thomson Scholarship
E. E. Ellis Scholarship
E.S. Woody Rice Family Scholarship
EKA Chemical Scholarship
Eric Ellwood Scholarship
Ennie & Beverly Alexander Scholarship
Erskine, J. and Sue W. Brick house Scholarship
Friends of Bill Cross Scholarship
George Oakley Scholarship
Georgia-Pacific Scholarship
H.L. Lusby Scholarship
Hale Kamine Scholarship
Harry Saunders Scholarship
Hazard H. May Scholarship
Heider Memorial Scholarship
Hercules Employees Scholarship
Hercules Incorporated Scholarship
Hoetzel-Thronton Scholarship in Paper Science & Engineering
Hunter Scholarship Endowment
Inland Paperboard & Packaging Scholarship
Inland/NC State Alumni Endowment
International Paper NCSU Alumni Scholarship
International Paper Riegelwood Alumni Scholarship
Irene Crip Memorial Endowment
J. Robert Carpenter Scholarship
Jacob G. Belin Scholarship
Jacobs Engineers Scholarship
Jacque Moore Scholarship
James A. Buzzard Scholarship
James Piette Scholarship
Jim Bowen Scholarship
John A. Heitmann, III Scholarship
John L. Moore Scholarship
John Milton May Scholarship
John, R.Kennedy Scholarship
Kemira Scholarship
Kimberly-Clark Scholarship
Kirk Semke Scholarship
Lawrence H. Camp Scholarship
Louis J. Boos Family International Internship Award
M. Boinest Scholarship
Magdalene Donald Scholarship
Mark Alexander Scholarship
MeadWestvaco Scholarship
Metso Paper Scholarship
Michael Sherman Scholarship
Mill Town Legacy Scholarship – PCA
Mill Town Legacy Scholarship – PCA
Nalco Company Scholarship
Omnova Solutions Scholarship
Paper Chase Scholarship
Phillips Family Leadership Initiative
Phillips Family Leadership Initiative
Phillips Family Scholarship
Proctor and Gamble Scholarship
PSE First-Year Scholarship
PSE First-Year Scholarship
PSE First-Year Scholarship
PSE First-Year Scholarship
PSE First-Year Scholarship
PSE First-Year Scholarship
Ray Smith Scholarship
Rector/ishcraft Scholarship
Richard Owens Scholarship
Robert E. Mason Scholarship
Robert Hitchings Scholarship
Robert L. Baudet Scholarship
Ronald Estridge Family Scholarship
Shoilin Family Scholarship
Smith / ECC Scholarship
Sonoco Alumni Scholarship
Specialty Chemical Scholarship
Specialty Minerals Scholarship
St. Joe Paper Scholarship
St. Laurent Scholarship
Stone Container Scholarship
Sture G. Olsson Scholarship
TAPPI Envirochase Scholarship
Ted Owens Scholarship
Terry Cecil / JWI Group Scholarship
Terry P. Charbonnier Scholarship
Thermo Fibrotek Scholarship
Thiele Keslin Company Scholarship
Thomas S. Coldweley Scholarship
Tidewater Construction Scholarship
Turner Family Scholarship
Union Camp Scholarship
Virginia Fibre Corp. / Robert Macauley Scholarship
Voith Fabrics Scholarship
W. E. Hamilton Scholarship
Weyerhaeuser Company Foundation Scholarship
Will Lovin Scholarship
William Bailey Scholarship
William E. Caldwell Scholarship
William Greig Scholarship
Colin Hall
Roland Cady
Madeleine Foster
Jessica Hardison
Heather Starkey
Patrick Leasure
Christopher Moore
Jackson Russell
Douglas Moore
Ashley Quick
Benjamin Branzelle
Will Mason
Robert Oglesby
Shelton Thurman
Logan Parson
Bryan Robison
Miguel Sanchez
Matthew Skinner
Joe McDonald
Patrick Leasure
Patricia Leasure
Austin Starnes
Mark Sullivan
Bailey Tebou
Jensen Veilangattnu
Kable Young
James Vislocky
Stanton Tang
Steven Gillespie
Michael Richards
Sam Helferkamp
William Harp
Charles Joseph
William Sydor
Kyle Spegal
Kedric Lemon
Chase Hayhurst
Ryan Barnes
Joe McDonald
Pieter van Zyl
Julia Woods
Mason Umlauf
Alexander May
Karl Grapila
Alexander May
Austin Emery
Joseph Pippin
Will Mayo
Andrew Edwards
Christopher Hering
Hunter Jackson
Peyton Holste
Nathan Hiser
Paolo De Urdqui
Michael Jones
Alexandria Hight
Christopher Lagaly
Benjamin Branzelle
Emily Bufi
Joo Lee

2014 - 2015 FOUNDATION SCHOLARSHIPS

Albany International Scholarship
Albright and Wilson Scholarship
Alcestis Aldrich Scholarship
Arroyo Family Scholarship
ASA Brown Bowen Scholarship
Barlow Scholarship
Barre Mitchell Scholarship
Bill Cross/ Nalco Scholarship
Binkley Memorial Scholarship
Bioresources Scholarship
Bioresources Scholarship
Bioresources Scholarship
Bob Menard Scholarship
Boise Cascade Scholarship
Bowater Scholarship
Brown & Root Scholarship
C. Cline Peters Scholarship
Carteret Industries Scholarship
Carol & Carter Fox Scholarship
Cascades Tissue Group Scholarship
Charles N. Rogers Scholarship
Charles W. Coker, Sr. Scholarship
Clariant Corporation for Chemical Studies Scholarship
Class of 1966 Scholarship
Continental Forest Industries Scholarship
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Dietrich V. Asten Scholarship
Dr. Fred B. Schelhorn Scholarship
Dr. Hou-min & Anne Chang Scholarship
Drs. Li-Sho and Lee-Fun Chang Scholarship
Dwight Thomson Scholarship
E. E. Ellis Scholarship
E.S. Woody Rice Family Scholarship
EKA Chemical Scholarship
Eric Ellwood Scholarship
Ennie & Beverly Alexander Scholarship
Erskine, J. and Sue W. Brick house Scholarship
Friends of Bill Cross Scholarship
George Oakley Scholarship
Georgia-Pacific Scholarship
H.L. Lusby Scholarship
Hale Kamine Scholarship
Harry Saunders Scholarship
Hazard H. May Scholarship
Heider Memorial Scholarship
Hercules Employees Scholarship
Hercules Incorporated Scholarship
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Hunter Scholarship Endowment
Inland Paperboard & Packaging Scholarship
Inland/NC State Alumni Endowment
International Paper NCSU Alumni Scholarship
International Paper Riegelwood Alumni Scholarship
Irene Crip Memorial Endowment
J. Robert Carpenter Scholarship
Jacob G. Belin Scholarship
Jacobs Engineers Scholarship
Jacque Moore Scholarship
James A. Buzzard Scholarship
James Piette Scholarship
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John A. Heitmann, III Scholarship
John L. Moore Scholarship
John Milton May Scholarship
John, R.Kennedy Scholarship
Kemira Scholarship
Kimberly-Clark Scholarship
Kirk Semke Scholarship
Lawrence H. Camp Scholarship
Louis J. Boos Family International Internship Award
M. Boinest Scholarship
Magdalene Donald Scholarship
Mark Alexander Scholarship
MeadWestvaco Scholarship
Metso Paper Scholarship
Michael Sherman Scholarship
Mill Town Legacy Scholarship – PCA
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Nalco Company Scholarship
Omnova Solutions Scholarship
Paper Chase Scholarship
Phillips Family Leadership Initiative
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Phillips Family Scholarship
Proctor and Gamble Scholarship
PSE First-Year Scholarship
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Ray Smith Scholarship
Rector/ishcraft Scholarship
Richard Owens Scholarship
Robert E. Mason Scholarship
Robert Hitchings Scholarship
Robert L. Baudet Scholarship
Ronald Estridge Family Scholarship
Shoilin Family Scholarship
Smith / ECC Scholarship
Sonoco Alumni Scholarship
Specialty Chemical Scholarship
Specialty Minerals Scholarship
St. Joe Paper Scholarship
St. Laurent Scholarship
Stone Container Scholarship
Sture G. Olsson Scholarship
TAPPI Envirochase Scholarship
Ted Owens Scholarship
Terry Cecil / JWI Group Scholarship
Terry P. Charbonnier Scholarship
Thermo Fibrotek Scholarship
Thiele Keslin Company Scholarship
Thomas S. Coldweley Scholarship
Tidewater Construction Scholarship
Turner Family Scholarship
Union Camp Scholarship
Virginia Fibre Corp. / Robert Macauley Scholarship
Voith Fabrics Scholarship
W. E. Hamilton Scholarship
Weyerhaeuser Company Foundation Scholarship
Will Lovin Scholarship
William Bailey Scholarship
William E. Caldwell Scholarship
William Greig Scholarship
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Patricia Leasure
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Mark Sullivan
Bailey Tebou
Jensen Veilangattnu
Kable Young
James Vislocky
Stanton Tang
Steven Gillespie
Michael Richards
Sam Helferkamp
William Harp
Charles Joseph
William Sydor
Kyle Spegal
Kedric Lemon
Chase Hayhurst
Ryan Barnes
Joe McDonald
Pieter van Zyl
Julia Woods
Mason Umlauf
Alexander May
Karl Grapila
Alexander May
Austin Emery
Joseph Pippin
Will Mayo
Andrew Edwards
Christopher Hering
Hunter Jackson
Peyton Holste
Nathan Hiser
Paolo De Urdqui
Michael Jones
Alexandria Hight
Christopher Lagaly
Benjamin Branzelle
Emily Bufi
Joo Lee
PHILLIPS FAMILY LEADERSHIP INCENTIVE

BY DR. RONNIE G. HISE

The Pulp and Paper Foundation & College of Natural Resources at NC State University were pleased to announce the first recipients of the Phillips Family Leadership Incentive this past year. This unique program was made possible by a $1 million endowment from the Phillips Family.

The endowment creates $20,000 awards to recognize paper science and engineering students in the Forest Biomaterials department who have demonstrated extraordinary academic achievement, leadership and service, and who have expressed a strong interest in business and professional success.

The Phillips Incentive will allow the recipients to pursue a minor in business from the Poole College of Management at NC State University in addition to their Paper Science and Engineering degree.

Congratulations to Joe McDonald and Patrick Leasure, the 2014-15 recipients of the Phillips Family Leadership Incentive Award

Dr. Phillips has been a consistent proponent of enhancing the business skills of graduates from our program. “Young men and women entering the pulp & paper and allied services industry need to know how financial decisions of all kinds are made in today’s competitive environment. It’s not enough to be technically proficient and have a great work ethic. Today’s PSE graduates need to be able to use their technical expertise AND their business skills to help their employers become and remain profitable.”

Richard, an NC State Alumnus, is an Adjunct Professor and the Executive in Residence in the Department of Forest Biomaterials. He came to NC State after retiring from International Paper as Senior Vice President of Technology. Richard teaches Strategic Business Practices in the Paper Industry and provides leadership and critical thinking to the department.

Both Richard and Mary have been strong and generous supporters of the Foundation and the PSE program over the years, with gifts of time, talent, and donations. They enjoy Wolfpack sports and spending time with their 6 grandchildren. They hope their actions will encourage others to support our program as well. Please contact Jennifer Piercy for more information about creative ways to get involved!
A RECORD FOR TAPPI FELLOWS
BY STEPHEN KELLEY

I am pleased to announce that NC State’s Paper Science and Engineering program now has SEVEN TAPPI Fellows – more than any other higher education institution in the country. Each year, the Association elects members as TAPPI Fellows in recognition of individuals who have “made extraordinary technical or service contributions to the industry and/or the Association”.

In 2014 Dr. Medwick V. Byrd was elected as a TAPPI Fellow, joining Fellows and NC State faculty Drs. Hou-min Chang, Martin A. Hubbe, Hasan Jameel, Michael J. Kocurek, Richard B. Phillips, and Richard A. Venditti.

Dr. Byrd certainly fits the TAPPI Fellow Criteria. A member of TAPPI for almost four decades, Byrd is Teaching Associate Professor in the Department of Forest Biomaterials at North Carolina State University and serves as the Director of Undergraduate Programs in Paper Science and Engineering. He received his B.S. in Pulp and Paper Technology and Chemical Engineering and M.S. in Wood and Paper Science from NCSU. After working for Buckeye Cellulose and Black & Veatch Engineers he returned to NCSU where he started up a new pilot plant facility and served as the Director of Applied Research. After receiving his Ph.D., he joined the faculty in 2004.

He has an intense interest in the sustainable processing of agricultural residues and holds a patent for the simple pulping and bleaching of corn stalk and other agricultural residues. He’s been named outstanding adviser and outstanding teacher and designated an Alumni Distinguished Undergraduate Professor. An active TAPPI member, he’s served on the Nonwood Plant Fibers Committee and Student Summit Planning Committee. Most importantly Dr. Byrd has been a force in the recruiting and education of thousands of young engineers, who were taught excitement and passion of being a paper engineer.
North Carolina State University’s other TAPPI Fellows are:

**Dr. Michael J. Kocurek** – Elected in 1985 for his contributions to TAPPI, and as an academic leader and research manager. Dr. Kocurek has taught over 3,000 industry operators and professionals at over 50 paper industry corporations, government and other organizations; in addition to his teaching of undergraduate and graduate students since 1970. Mike has taught TAPPI’s oldest and most highly ranked short course, “Introduction to Pulp & Paper” for over 34 years.

**Dr. Hou-min Chang** – Elected in 1999 for his contributions as a researcher and educator in the areas of pulping and bleaching chemistry, lignin biodegradation chemistry and the biological treatment of lignin derived wastewaters. His studies in the chemistry of pulping and bleaching have included oxygen delignification and bleaching reactions, characterization of residual lignin, anthraquinone pulping, extended delignification, and chlorine-free bleaching processes. He has been a pioneer in investigating “oxidative extraction” to improve bleaching efficiency. He continues to serve the Paper Science and Engineering program by training and supervising graduate students and research projects, and contributing his tremendous chemical insights to a wide variety of pulp and paper and bioenergy research projects.

**Dr. Richard B. Phillips** – Elected in 2002 for his work at International Paper as a manager of chemical process technology, and Vice President and Director of process technology. He managed research and development, product development, engineering, and mill technical services for over 32 years. When he retired in 2006 he joined the Paper Science and Engineering program at NC State where he has taught classes, supervised graduate students and research projects, and contributed his financial and engineering skill to a wide variety of pulp and paper and bioenergy projects.

**Dr. Hasan Jameel** – Elected in 2007 for his exceptional contributions to pulping, bleaching and recycling. He worked for International Paper for 8 years where he led the installation of the first commercial MC bleaching system, and studies on ECF bleaching and pulp yield. At NC State, he studies chlorine dioxide bleaching, pH profiling and methods for controlling metals profiles. He also led the development of the distance education master’s program in Paper Science, the first of its kind, which still provides educational opportunities to students around the world.

**Dr. Martin A. Hubbe** – Elected in 2010 for his contributions to the charge-related properties of fiber furnish, development of the science and technology relating to paper dry-strength, optimization of retention aids, and chemical process to promote dewatering. In these areas he has achieved international recognition as an innovative researcher and an important contributor to the development of fundamental science and applied technology.

**Dr. Richard A. Venditti** – Elected in 2012 for his contributions to paper recycling including automatic sorting of wastepaper through the development of a lignin sensor that is now utilized in the most modern automated paper sorting equipment, and his work on ‘stickies’ behavior, which has been instrumental in understanding the detection/removal/separation of stickies. Venditti was an important contributor to the multi-institutional stickies detection round robin testing.
As the world becomes “smaller” with advances in communication and technology, international experiences are becoming easier to coordinate. The paper science program at NC State feels that these adventures are becoming increasingly important in our global industry and economy. We are supporting them with as much vigor and gusto as possible. We are proud to have students that eagerly and willingly participate, as well as donors who can make this happen.

To date, our program has embarked upon several international programs:

- **PIE – Paper International Experience** - every other year a group of juniors and seniors take a two week trip to learn about the culture and industry in another country. We have traveled to China twice, Chile and Brazil. Almost 100 students have had the privilege of attending one of these trips.

- **Summer work experience in Japan** - students complete a summer internship with Nippon Paper. We have sent one or two students per year for almost 25 years now!

- **Special Projects abroad** – such as Tyson Huffman heading to Rwanda to oversee the building of a pilot plant to produce low cost feminine hygiene products using the local workforce and a local natural resource; banana fibers.

- **TAPS – Trans Atlantic Paper Science Program** – where students can study abroad in Germany and Finland for one year and obtain another engineering degree from the European Union. We have supported 14 students in this program.

Rising PSE Senior, Todd Moore, spent the summer of 2014 in Japan with Nippon Paper and had this to say about his experience: “This trip has been such a broadening experience. I was able to meet new people, try new things, and experience an entirely new culture. So many different things were at my fingertips and I tried to grab each opportunity I had. Overall, this was a milestone accomplishment for my life. I am grateful for the donors who made this possible.”

Lou and Jeannie Boos are great examples of such donors. Our foundation and program are grateful for their consistent annual support and a recent major gift of $25,000 for international experiences. Jeannie participated in a study abroad in Germany during her college years and Lou’s overseas experience began in the military. “We both feel that it is very important for young people to learn about other cultures and thus learn about themselves. My in depth exposure to other countries and cultures has been critical in my career. My partners and I founded Nordic Engineering to bring Nordic and European technology to the US pulp and paper industry,” remarked Lou, “this is why Jeannie and I established our scholarship to help students travel to other countries for summer internships.” Lou and Jeannie have traveled extensively for work and pleasure. They have also immersed themselves in other cultures by hosting internationals in their home.

Our foundation also receives donations for international travel from our corporate donors and alumni, many of whom experienced a PIE trip and now “pay it forward” to allow current students to participate for a very low investment on their part. Thanks to Lou, Jeannie and all of our donors who make international experiences possible. PIE 2015 is right around the corner . . . where in the world will this trip take us?
CORPORATE DONORS

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!

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INTERNATIONAL PAPER

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Summer Internship
Co-op

MWV

Full Time
Summer Internship
Co-op

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Georgina-Pacific

Full Time
Summer Internship
Co-op

PCA

Full Time
Summer Internship
Co-op

RockTenn

Formerly Ashland Water Technologies
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Co-op

Solenis

Full Time
Summer Internship
Co-op

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Co-op

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Valmet

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Summer Internship

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Dr. Richard J. Thomas
Professor Emeritus

Dr. Heinz G. Olf
Professor Emeritus

Dr. Elisabeth A. Wheeler
Professor Emeritus
## FINANCIAL STATEMENT

### CASH IN

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### ACCOUNT BALANCES

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### 2014 Notes:

1. Three new accounts were opened to streamline budgeting and spending. Initial balance for new accounts totaled $440,000 from the Pulp and Paper fund account.

2. $25,000 is owed to the PPF operating account from NRF account for salaries.
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Mrs. Camille K. Holzner
Mr. Hampton G. Howell
Mrs. Emily Irving
Mr. Brandon Jones
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