This year, we dedicate The Pinetum to Robert (Bob) Brown, Dean of the College of Natural Resources (CNR) in honor of his tremendous service and commitment to the college over the last six years.

These have been great years in CNR with our programs growing and prospering under his positive, open and transparent leadership – despite the backdrop of problems in the larger economy and restructuring efforts at the University.

Over the last six years, student enrollment has grown, research funding and service efforts have expanded, and CNR activities have seen an increase in quality and impact. The communities and sectors CNR serves – from wood manufacturing, to outdoor recreation and tourism, to environmental quality and forest sustainability – have all been well served. In short, under Dean Brown’s leadership, we have continued the great CNR tradition of excellence, national and international recognition, and fundamental service to the people and landscapes of North Carolina.

Some of the key accomplishments during Dean Brown’s tenure (for which he would immediately give credit to the CNR team) are:

- Strong growth in our environmental programs
- Expanded housing, sustainability and bioenergy efforts
- Enhanced parks, recreation and tourism outreach and research programming
- Expansion of outdoor activity into the realms of sustainable and eco-tourism, and health and wellness
- The emergence of geospatial sciences as a center of excellence
- Success on the front and the back 9 for the golf management program
- Tremendous expansion of forestry climate change/carbon/biomass and bioenergy efforts
- Enhanced College communication and diversity programs

Directly under Dean Brown’s guidance, the College has become a focal point for land and community conservation R&D by the U.S. military, and will emerge as a premier policy-science institution under the direction he has set. We’ve expanded our external partnerships and development efforts, optimized our foundations, and built new strategic relationships nationally and around the world.

The efforts he has championed will propel the College into this new century and are worthy of the legacy of former visionary Deans Hofmann, Preston, Ellwood, Tombaugh and Nielsen. Dean Brown’s legacy is one of excellence and of making everyone associated with the College part of that effort!

ABOVE AND BEYOND THE CALL OF DUTY

Some of you may not know that Dean Brown had planned to retire in summer 2011. He had happy plans to spend more time with his family, hunt and maybe sail, and truly be his own boss. However, at that time, NC State began serious conversations about the future structure of the University’s 10 Colleges and many academic programs – and Dean Brown selflessly decided to delay his own plans, staying on to help guide the College he loves through difficult waters. He stayed more than a year extra, providing the solid strong leadership necessary to see the future success of CNR secured. In April 2012, NC State Chancellor Woodson announced that CNR was to remain an intact college and a vibrant player in the University’s future!

THANK YOU, DEAN BROWN.

In this upcoming 2012 summer, Dean Brown will retire from academic life, and turn the helm of CNR over to a new Dean. He’ll add to his full and distinguished résume whatever fun things and contributions he chooses to do in retirement. After six years as Dean of CNR, 13 years as Head of the Wildlife and Fisheries Sciences Department at Texas A&M University, service at Mississippi State University, Texas A&M Kingsville and the Kleberg Wildlife Institute, graduations from Colorado State, and Pennsylvania State Universities, service as an officer in the U.S. Marine Corps, from Vietnam through to reserve Lt. Colonel – retired – we can only wonder what he will choose to do next. But we suspect that his choice may include at least a canoe, kayak, or sailboat!

It has been CNR’s great fortune to have Robert Brown as our Dean, and we wish him and his wife, Regan, and their sons and families all the very best!

By the CNR Executive Committee (Dorothy Anderson, David Ashcraft, Bob Bardon, Thomas Easley, Tilla Fearn, Barry Goldfarb, Steve Kelley, Adrianna Kirkman, Don Patty and Dan Robison)
## CONTENTS

### College Overview

1. Dedication: Dean Bob Brown  
   *Front Inside Cover*

2. A Message from the Dean  
   by Dean Robert Brown

3. Development & Foundations  
   Sustaining the Future by  
   David Ashcraft

4. Special Recognitions  
   Student Scholarships & Awards  
   Faculty Promotions, Awards &  
   Honors

5. Highlights from  
   Academic Affairs  
   by Dr. Adrianna Kirkman

6. CNR Ambassador Program  
   2011 - 2012 Ambassadors

7. Engaging Leaders Program  
   2011 - 2012 Leaders

8. 2011 - 2012 Graduates  
   Summer 2011, Fall 2011 & Spring  
   2012 Graduates

9. Senior Class Photo & Quotes

10. About the  
    College of Natural Resources  
    *Back Inside Cover*

### From the Department  
Head's View

11. Forest Biomaterials  
    by Dr. Steve Kelley

12. Forestry & Environmental  
    Resources  
    by Dr. Barry Goldfarb

13. Parks, Recreation &  
    Tourism Management  
    by Dr. Dorothy H. Anderson

### Student Organizations

14. CNR Council  
    Governing body for all  
    CNR student clubs

15. CNR Senators  
    CNR was represented by 3 students  
    at the University's 91st session of  
    the Student Senate

16. MANRRS  
    Minorities in Agriculture & Natural  
    Resources Related Sciences

17. NCSU Forestry Club  
    Students devoted to furthering the  
    interest of forestry

18. Society of American Foresters  
    National & educational  
    organization representing the  
    forestry profession

19. Xi Sigma Phi  
    Honor Society for Forestry &  
    Environmental Resources

20. International Society of  
    Tropical Foresters  
    International forestry &  
    environmental issues club

21. Leopold Wildlife Club  
    NCSU Student Chapter of the  
    Wildlife Society

22. TAPPI  
    Technical Association for the  
    Pulp & Paper Industry

23. Forest Products Society  
    Connects students with  
    Forest Products professionals

24. Rho Phi Lambda  
    National Honorary Recreation, Park  
    & Leisure Services Fraternity

25. PGA Golf Management  
    Student club for  
    PGA Golf Management

### 2011-2012 CNR Events

26. Wildlife Summer Camp  
    “Nothing brings a group closer  
    than a shared trail of sea sickness  
    & sunburn...”

27. Wolfpack Welcome 2011  
    Freshman in CNR enjoy a day of  
    mixing & mingling

28. CNR Tree Trimming  
    2nd Annual Holiday Tree Trimming

29. Carolinas Cup  
    PGM students win the  
    Carolinas Cup

30. Dean’s List Reception  
    Reception for Fall 2011  
    Dean’s List students

31. CNR Etiquette Dinner  
    CNR students dine for a night of  
    etiquette training

32. Forestry Conclave  
    Three day event of timber sports  
    hosted by NCSU Forestry Club

33. CNR Golf Tournament  
    Alumni & friends reconnect at  
    Lonnie Poole

34. Earth Day 2012  
    CNR – the place for green careers

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Contributor
With a lot of regret I have to note that this will be my last Pinetum article, since I will be retiring on August 1, 2012.

I came to NC State in August 2006, and nearly all of you graduating this year, undergraduates and graduate students, enrolled here after that. So, we’ve seen the subsequent changes in the college, the university, the nation and the world together. These have been interesting times, both good and not so good. We’ve seen the election of the first African American President, and we are in the throes of another election this year. (If you are a U.S. citizen – PLEASE VOTE!). We’ve seen wars – and some of you are veterans of those wars – and we’ve seen the most serious downturn in our economy since the Great Depression of 1929. Our CNR faculty and staff have not had a pay raise in over four years now, and the University has been hit with major funding cuts from the state. Because of that – your tuition has risen dramatically since you enrolled here.

The future – for both the University and for your job hunting – is unclear, but more promising than you might think. The stock market and the Gross National Product (GNP) are back to where they were before the recession, consumer spending is beginning to rise, tax income is starting to rise, and at least one industry – the pulp and paper industry – has recovered and is hiring literally hundreds of new engineers. The nation has only recovered about half of the jobs lost in the recession, but the unemployment rate is now being impacted by the retirements of 1/3 of the U.S. population – the “baby boomers,” like me. Many of you may have to take temporary, part-time, or not-your-first-choice jobs for a year or two, but we are confident you will eventually land the position you want and have a fulfilling career. You, and we, have done the best we could to prepare you for that career.

As we look back over the 4, 5, or 6 years you and I have been here, we can recall the many new faculty who have been hired in CNR, the renovation of Forest Biomaterials research and GIS teaching labs, undergraduate student research, dozens of Study Abroad trips, the opening of Jordan Hall II, EnvironMentors, new on-line courses and three new on-line master’s degrees, a new faculty member housed at the Nature Research Center of the NC Museum of Natural Sciences, Forestry Conclave and many other club activities, nearly a 40% increase in the amount of research grants coming to our college, and a host of innovative teaching, extension and research activities.

All of this was accomplished by a team – or more accurately a family – the CNR family – of faculty, staff, TAs, graduate students and undergraduate students, as well as our alumni, scholarship donors, and other supporters. Many of you may not know each other – but all of you have an interest in the outdoors, in conservation and natural resources – and in the Wolfpack! The total energy of this “family” is expressed in the efforts and innovations that have occurred these last 6 years. And, this energy will continue – not the least in the new Hunt Library to be opened next year on the Centennial Campus, the newly renovated Talley Student Center, several new CNR faculty we are currently interviewing, space for our PGM students in the new golf course Club House, a new Biofuels Pilot Plant in the Hodges Building, a potential $10 million Center of Excellence with a major chemical company, the complete renovation of Camp Slocum – and who knows what else? So don’t forget us – come back, visit, and give back – so that those who come after you will have a quality experience as well.

As I close, I am reminded of my grandparents on my mother’s side, born of ranching families in northern California in the late 1890’s. They were in their early teens when the Wright Brothers flew the first airplane at Kitty Hawk, NC in 1906. They lived through the Great Depression and two World Wars. They were always optimistic, as they’ve been through the worst of times – much worse than now. And, they lived to ride in an airliner and see the first man walk on the moon – probably before you were born. Just think about the possibilities of what you will experience in your lifetime!

It has been an honor to help provide leadership to this college during these last few years. Best wishes to all of you – and Go Wolfpack!

Dean Bob Brown
CONGRATULATIONS TO THE COLLEGE OF NATURAL RESOURCES’ CLASS OF 2012

Our new graduates are entering a world filled with the excitement of new opportunities in sustainable resources, environment, and new sources of energy. The pace of transformation is quickening and during the next ten years, society will witness more change than in any similar period in history. It is also a world of many problems that our future leaders will have to resolve.

NC State University was founded 125 years ago, opening the doors of higher education to the citizens of North Carolina. Since then, we’ve grown into one of the nation’s top research institutions, becoming an engine for educational innovation and economic growth and attracting the best and brightest students from North Carolina and beyond. Throughout 125 years of ground-breaking work in fields ranging from engineering to ecology, and social work to sustainability, we’ve not only changed lives; we’ve transformed the world. YOU are both a part of that legacy and the engine of future transformation.

LOOKING BACK

During your years here in the College of Natural Resources, YOU
• Worked on research projects that led to discovery and innovation
• Travelled and grew as global citizens serving as ambassadors for NC State locally, nationally and, for many of you, globally
• Volunteered - giving your time and talent to individuals on campus and beyond, and making a real difference in the lives of real people
• Began building the network of people who will play significant roles in both your personal and professional lives for decades to come
• Stood on 125 years of impressive tradition, you stand poised to take the knowledge, skills and experiences you have gained here in CNR to go forth and live transformational lives.

MOVING FORWARD

Due to the hands-on, problem-solving and service-focused culture here in the College of Natural Resources, YOU, our graduates, are better prepared to find the solutions to the major problems we face than are those from any other college on campus. I am confident that many of you will be at the leading edge of the transformation that will reshape this nation and the world.

GIVING BACK

Be proud of all that you have accomplished and thankful for those whose generosity has provided the scholarships, facilities and other extras that have help you succeed.

As you take on the challenges to come, develop guiding principles that you will live by, always do your best, and never forget your College. When you visit Raleigh, stop by to see us, and invest in your College so that the generations behind you will also be prepared to continue our YOUR tradition of transformation.
There are many student, faculty and staff honors and awards that we would like to recognize but a comprehensive list is difficult to compile. Below are some of the awards that were given in the academic area for this year. We apologies for any awards that are not listed here.

**STUDENT SCHOLARSHIPS & AWARDS**

- **Caldwell Fellows**
  April Boggs & Diana Reese

- **2012 Ernest F. Hollings Undergraduate Scholarship**
  Amelia Forbes, Emily Forbes & Gretchen Stokes

- **National Science Foundation Grant (Research Fellowship)**
  Asia Murphy & Joshua Rice

- **Udall Scholarship**
  Gretchen Stokes

- **NC Chapter of the Alliance of Hazardous Materials Professionals 2011 Environmental Scholarship**
  Emily Forbes

- **StormStuck Simpson Strong-Tie Structural Engineering & Construction Scholarship 2012-2013**
  Jonathan Aycock

- **Krispy Kreme Challenge Winner**
  Carly Swanson

- **STIHL TimberSports Series - Southern Collegiate Title**
  Victor Wassack

- **City of Raleigh’s 2012 Environmental Award for Environmental Awareness**
  Rachel Conley

**FACULTY AWARDS & HONORS**

- **NC State’s Gertrude Cox Award for Curriculum Innovation through the use of Technology**
  Dr. Michael Kanters (PRTM)

- **CNR nominee for the Alumni Association Outstanding Research Award**
  Dr. Hasan Jameel (PSE)

- **2012 Board of Governor’s Award for Excellence in Teaching**
  Dr. George Hess (FER)

- **Alumni Distinguished Undergraduate Professor for CNR**
  Ms. Kathy Hamilton Gore (PRTM)

- **Alumni Distinguished Graduate Professor for CNR**
  Dr. Erin Sills (FER)

- **Alumni Distinguished Researcher (CNR)**
  Dr. Marty Hubbe (FB)

- **Community Engaged Faculty Fellows by the NCSU Office of Outreach & Engagement**
  Dr. Bronson Bullock & Dr. George Hess (FER)

- **CNR Outstanding Global Engagement Award**
  Dr. Marty Hubbe (FB) & Lucian Lucia (FB)

- **CNR Alumni Outstanding Research Award**
  Dr. Hasan Jameel (FB)

- **2012 TAPPI Fellow**
  Dr. Richard Venditti (FB)

**STAFF AWARDS & HONORS**

- **Opal Mann Green Engagement & Scholarship Award for Boy Scout Merit Badge University Program**
  Tiffany McLean (Academic Affairs)

- **CNR Award for Excellence for Staff**
  Pat Hill (FB) & Lisa Schabenberger (FER)

- **Environmental Educator of the Year by the NC Wildlife Foundation**
  Renee Strnad (FER)

**FACULTY PROMOTIONS**

- **Dr. Nils Peterson**
  Approved tenure and promotion to Associate Professor

- **Dr. Dave Tilotta**
  Promotion to Full Professor

- **Dr. Yu-Fail Leung**
  Promotion to Full Professor

- **Dr. Jose Stape**
  Approved tenure at current rank of Associate Professor

- **Dr. Jean-Christopher Domec**
  Promotion to non-tenure track rank of Research Associate Professor

- **Mark Megalos**
  Promotion to Extension Associate Professor
By Dr. Adrianna Kirkman

The CNR Academic Affairs Office provides the central structure for all things related to students, programs and educational activities. Comprised of Academic Services, Enrollment Management, and Information Technology groups, the department is an integral part of the college’s educational activities. Our goals are to provide expedient and friendly service to prospective and enrolled students, faculty and staff, to support innovation in teaching and learning, and to showcase the successes of the CNR academic family. From this perspective, we are in a unique position to see many of the initiatives and accomplishments of CNR students and faculty. CNR has so many great stories to tell!

HIGHLIGHTS OF ACTIVITIES

In the academic services and enrollment management areas, the primary focus this year has been on the expansion of co-curricular activities associated with student success, and on the enhancement of the visibility of the college both on campus and among prospective student populations. Throughout the Pinetum you will see articles on the CNR Ambassador Program, the Engaging Leaders Program, and other activities, such as Earth Day, that have fostered student success and made an impact on the CNR footprint on campus.

TEACHING SPACE UPGRADES

The college has been working on renovating classrooms for several years. This year, Biltmore 2006 is our primary target for new tables and chairs, as well as a general “sprucing up”.

However, the biggest changes for our teaching spaces are at Camp Slocum at Hill Forest. Courses taught at Hill Forest are major components for programs in the Forestry and Environmental Resources Department. These upgrades will provide a much improved learning space, as well as the potential for providing space for CNR co-curricular activities. Using money from the Natural Resources Foundation, the facilities have had a major upgrade - a remodeled kitchen/cafeteria, a new classroom, upgrade of the existing classroom, additional sleeping quarters, as well as infrastructure changes such as improved lighting, internet access, and a server system.

CNR SENIORS COMPLETING THE CNR HONORS PROGRAM

Christian William Schaefer (PRTM)
Heather Leigh Shipman (FER)

ACADEMIC AFFAIRS EVENTS

Wolfpack Welcome 2011: CNR Snack Attack
Free Pizza
Engaging Leaders Retreat
Open House 2011
Career Explorations
CNR Tree Trimming
Dean’s List Reception
Ambassadors Retreat
CNR Etiquette Dinner
Free Valentines Day Cupcakes
Academic Networking (FYC Event)
Experience NC State
Boy Scout Merit Badge University Program
Commencement (Fall 2011 & Spring 2012)
CNR AMBASSADOR PROGRAM

The College of Natural Resources (CNR) Ambassadors are a group of students who serve as liaisons between CNR and the outside community including prospective students, parents, distinguished guests, and alumni. Their majors cover a wide span of curricula within CNR, and their interests and extracurricular activities are equally diverse. They have a strong commitment to scholarly achievement that fosters academic excellence, maturation and inclusion of all students.

MISSION

• Recruit highly qualified high school and transfer students to CNR
• Create a sense of community across the majors within CNR
• Raise awareness about CNR both on and off campus

ACTIVITIES

• Assisting with planning, execution, and hosting of college-wide recruitment events including Open House, Experience NC State and Career Exploration Day for over 500 prospective high school students and their families
• Attending college fairs and visiting local high schools to create awareness of CNR programs
• Providing tours to prospective students, alumni, and special guests
• Serving as marshals for CNR’s Fall and Spring Graduation
• Communicating with admitted students through emails, notecards, and phone calls
• Representing the students of CNR at alumni and special guest functions such as the CNR Tailgate, alumni reunions, development events, and Chancellor Woodson’s visitation
• Coordinating 150 boy scouts for the NCSU Merit Badge College Program
• Representing CNR at NCSU Arbor Day at the State Farmers Market
• Organizing Earth Day activities for the college

Of course, the ambassadors still found time to have fun too! Social activities included a Winter Retreat to the ropes course and holiday laser tag! Without the support of the CNR Ambassadors, the College of Natural Resources could not provide the level of personalized attention we provide to all of our visitors.

2011-2012 AMBASSADORS

Environmental Technology
Brittany Anstead
Krystal Carter
Leigh Davis
Emily Forbes
Mija Nicholes

Fisheries, Wildlife & Conservation Biology
Julia Babuin
Megan Binkley
Melana Horton
Kyle Meadows
Barbara Stevens
Gretchen Stokes
Park Watson

Natural Resources
Amelia Forbes
Deanna Ludwick
Blake Newell

PGA Golf Management
David Gamble

Paper Science & Engineering
Robert McGonigle
Kimberly Phillips
Jacob Vrooman
Ashley Massey

Parks, Recreation & Tourism Management
Elizabeth Robison
Kristen Bowman
Kate Gilbertson
Liz Myers
Lindsay Froggatt

Sport Management
Ashley Berfield
Amanda Dinkel
Ira Dogruyol
Joseph Kenney
Sammie Marshall
Carly Swanson
Luke Tompkins
In a partnership between the Office of Academic Affairs and the Office of the Community for Diversity, the CNR Engaging Leaders Program was created in the Fall of 2011. This allowed 20 incoming CNR students (both freshmen and transfers) the opportunity to develop their leadership skills in academic, social and public service contexts, increase their cultural competency through team building and community service projects, and understand effective communication in a professional and academic environment. Seven upper class students also served as mentors who designed and implemented the activities throughout the year.

The Engaging Leaders Program was created to provide the personalized attention traditionally given within the CNR, the program emphasizes hands-on learning, real-world applications, and relationship building with faculty, community leaders, and other CNR students.

2011 - 2012 Activities

• Kick-Off Leadership Retreat
• Business Etiquette Dinner
• Spring Break Service Trip to Wilmington, NC
• Bi-monthly seminars and events focused on our goals of leadership, communication, and cultural competency

2011-2012 Members
Alexandra Rathbun
April Boggs
Camille Brown
Carson Wilkins
Chris Concannon
David Yeomans
Jerick Garrett
Katie Marshall
Kyle Richardt
Matt Whitlow
Miguel Alvarez
Nelessa Lewis
Phillip Jones
Scott Corcoran
Sean Bullock
Tanya Stevens
Zach Richardson

2011-2012 Leaders
Allegra Wiesler
Asia Murphy
Cedric Harpville
Elijah Gore
Jerry Vaughn
Park Watson
Rebecca Owens

Program Coordinators
Shaefny Grays
Tiffany McLean

Student Perspective
by Matt Whitlow

"Coming into the College of Natural Resources at NC State as a first-year student, I did not have many connections with the school. At my orientation, there was a unique presentation that caught my attention from Tiffany McLean of the Office of Academic Affairs. I knew instantly that I wanted to be involved.

Being part of the Engaging Leaders program has been one of the best academic decisions that I have made since coming to NC State. I did say academic decision, and although this is not a class, or worth any credit, being an Engaging Leader has given me more opportunities to meet fellow students, faculty and staff throughout CNR. Through the connections made in the Engaging Leaders program, I have been able to find undergraduate research projects which I am involved with, I have volunteered with prominent faculty and staff within the college, and I have gained professional skills and knowledge that will help support my endeavors here on campus and in the future.

I would highly recommend getting involved with the Engaging Leaders as it will help you to better understand how to be prepared for professional situations through etiquette, attire, professional preparation, diversity and cultural awareness, and so much more."
Renewable and Sustainable Materials? We Win!

The Department of Forest Biomaterials continues to grow engineers, scientists, and technology leaders who will develop the renewable materials and energy products that our nation demands. Many of our students have heard my ‘stuff’ speech. The short version is ‘All stuff comes from one of three places; a huge hole in the ground called a mine, a small hole in the ground called an oil (or natural gas) well, or trees.’ So when it comes to renewable and sustainable materials, we win!

This sustainability message resonates with students, stakeholders, and the public. The creation of national softwood and hardwood check-off programs that will grow demand for wood as a sustainable material, the growing interest in Environmental Product Declarations that measure the environmental attributes of different products, and the developing ‘Buy Local’ movement will all lead to increased public awareness of the benefits of wood and paper materials.

The concepts of sustainability have been introduced into a number of our classes, and are at the heart of an increasing number of our industry and government funded research projects. As engineers, scientists, and technologists, we have always been focused on process measurements, the application engineering process models, and the need for high quality data. But in addition to the capital and operating costs, we can now include the measurable carbon, water and environmental flows, and the associated process and environmental outputs. Including a discussion of sustainability in the classroom is also an opportunity for a multitude of teachable moments, where students are challenged to see the complexity and trade-offs in costs and benefits using many different criteria.

2011-2012 HIGHLIGHTS

National & University Faculty Honors

Drs. Marty Hubbe and Lucian Lucia – CNR Outstanding Global Engagement Award and nominated for the University award. They were selected based on their peer-reviewed journal BioResources, which now publishes about 400 scientific articles annually, authored by researchers from all over the world. Their BioResources Scholarship funds a Paper Science and Engineering undergraduate student.

Dr. Hasan Jameel – CNR’s Alumni Outstanding Research Award recipient. He has been exceptionally successful with his funded research projects as the lead PI or a key co-PI on more than $5.2 million in active research projects, creating a dynamic research environment for his graduate and undergraduate students, and a large group of postdoctoral scholars and international visitors.

Dr. Richard Venditti – 2012 TAPPI Fellow. This honorary title is bestowed upon a very small percentage of TAPPI’s membership recognizing extraordinary technical or service contributions to the industry and/or the Association. He joins a very distinguished list of current NC State Paper Science and Engineering faculty, and emeritus faculty, who are also TAPPI Fellows, including Drs. Chang, Hubbe, Jameel, Kocurek and Phillips.

Dr. Steve Kelley – Fellow of the American Chemical Society Cellulose and Renewable Materials Division Honored in part for his contributions to the creation of the CELL Graduate Student Award.

ACADEMIC PROGRAMS – GROWING OPPORTUNITIES

Enrollment – Forest Biomaterials continues to grow. In the past five years undergraduate enrollment has grown 50% and the PhD program has almost doubled. More importantly, the students are getting a great education, and have great career options upon graduation.

New Courses – ‘Green Chemistry’ and ‘Life Cycle Analysis’, two new courses taught by Dr. Lucian Lucia and Dr. Rich Venditti, respectively, will draw students from across campus, and will allow us to highlight the quality of our teachers and the value of our work.


Distinguished Speakers – Mr. Jack Jordan, Executive Vice President of Jordan Lumber and NC State Wood Products alumnus talked with Wood Products scholarship recipients about the opportunities for sustainable wood products in both the near and long term. Mr. Jordan, is also the Chair of the recently approved $15 million national Softwood Check-off program.

Mr. Jim Buzzard, CEO of MeadWestvaco, spoke to the Paper Science and Engineering students at the annual Pulp and Paper Foundation awards dinner about the value of the critical thinking and problem solving skills they are developing, and how these skills will serve them throughout their careers.

INTERNATIONAL & PROFESSIONAL GROWTH EXPERIENCES

Transatlantic Paper Science Program – The second wave of students have come to campus from Finland and NC State students are in Finland and Germany gaining tremendous experiences from these study aboard opportunities. The international students visiting us have also taught PSE students here on our campus a great deal about cultural differences, and similarities.
Paper International Experience (PIE) trip – The third group of students (17) travelled to Brazil where they visited some of the most modern mills in the world and learned how the US industry can continue to innovate and compete with the best in the world.

The Pulp and Paper Foundation hosted the annual awards banquet, golf tournament, a career fair, and a technical program that featured NC State alumni who had each taken very different paths to their current success.

RESEARCH SUCCESSES — CREATING AND INTEGRATING KNOWLEDGE TO INFORM SYSTEMS

Our research program continues to thrive. The number of proposals submitted and those awarded are both increasing with funding coming from a wide variety of federal, state and industrial sources. In addition to training graduate students, many of these research projects provide opportunities for undergraduate research and summer internships for students.

Southeastern Integrated Biomass Supply Systems grant – The Department was the NC state lead ($4 million) on this successful $15 million grant highlighting the integration of feedstock production, supply chains and process modeling, and how each of these individual steps feeds into life cycle or sustainability metrics. This project will fund research, education, and extension activities and create opportunities for students to work in research and communities across the SE to understand the local economic, environmental, and social impacts of deploying different bioenergy strategies.

Molecular Aspects of Using Different Feedstocks Including Wood, Lignin and Soy Proteins to Create Value-added Products

This innovative biomaterials series includes fundamental studies on chemical conversion, and applied work on enhanced paper properties or secondary oil recovery in partnership with faculty across campus, and around the world.

Wood to Ethanol Research Consortium (WERC) - We continue to attract private and public partners interested in producing biofuels from wood and includes a wide range of experimental and process modeling tasks. In addition, a team of faculty is working with Domtar to create new uses for lignin as a chemical feedstock and precursor for carbon fibers. In all cases, these projects are using a suite of process modeling, supply chain, economic models, and life cycle analysis tools to look at optimization of the ‘system’ instead on focusing on one narrow intermediate step.

Resilient and Sustainable Housing – The concept of making housing more sustainable is relatively well developed, but the concept of Resilient Housing, housing that is designed to better withstand and recover from an extreme weather event such as a hurricane, tornado, or flood is less well understood and accepted. Teams are looking at technology and at societal aspects of the resilient housing. What information or inducements are required to make a builder or homeowner change the way they build or retrofit a home? What standards are needed and how will they be used by companies, from builders to banks to insurance companies?

EXTENSION, ENGAGEMENT AND ECONOMIC DEVELOPMENT — BUILDING FOR THE FUTURE

Forest Biomaterials faculty continue to provide valued extension, training, and consulting services to the wood products, and pulp and paper industry, within North Carolina and across the country.

Wood Products Extension – The group continues to provide outstanding support for the industry across the state. In the face of a slow recovery, there has been localized interest and investment in secondary and primary wood products manufacturing sector and growing interest in ‘Buy Local’, shorter supply chains, and sustainable manufacturing. Recent announcements of furniture plants opening, or expanding, in NC and across the region, are just a few of the signs of recovery and growth. This recovery will demand a high level of innovation and insights into technology and the ‘systems’ thinking provided by NC State faculty.

Distance Education & Short Courses – The need for a well-trained workforce is as high as ever. Our distance education programs and pulp and paper short courses are in high demand as companies work to create a flexible, efficient workforce.

It has been an exciting year in the department and while the economic recovery may be long and varied, it is clear that wood and paper are the sustainable materials of choice, and that Forest Biomaterials will continue to be a leader in student education and research impacts, and thus, create value for our stakeholders.
This year I had the honor of traveling to Spain to receive an Honorary Forestry Engineering Degree from the Technical University of Madrid (UPM, Universidad Politécnica Madrid), which is the oldest and largest of the Spanish Technical Universities. As part of the ceremony, I had to give a short speech to the graduating class, and it got me thinking:

**What are the MOST important aspects of higher education in forestry and environmental resources?**

I thought about **how challenging and uncertain the world is**, and what that means for our own graduates.

While the economy is in recovery, there are still many hurdles for new graduates, and you could have a professional career that may not look very much like what you anticipated when you began your studies.

I also thought about **how much the world needs you** – needs your contribution to solving natural resource issues and needs your skills and perspectives.

Learning problem-solving skills and gaining perspective are major aspects of higher education. But sometimes, it is what happens outside of class that contributes to your ability to master these. This year’s events certainly called on our students to be creative problem solvers and showed many within and outside of our university just how amazing our students’ perspectives and visions are.

**FER STUDENT ORGANIZATIONS**

The Forestry and Environmental Resources Graduate Student Association (FERGSA) kicked off the fall semester with their annual Fall Symposium and added some new interest this year by joining with the Department of Marine, Earth and Atmospheric Science (MEAS) for a combination poster session and ice cream social. The International Society for Tropical Foresters (ISTF) hosted the very successful 5th Annual Spring Symposium titled, “Trade-offs in Tropical Forestry.”

I am always so proud of the level of involvement of our students in clubs and professional societies. The NCSU Student Chapter of the Society of American Foresters went to the SAF National Convention in Hawaii this year and had a very memorable wilderness experience preceding the convention. The Leopold Wildlife Club traveled to Pikeville, TN, to compete in the 2012 Southeast Wildlife Conclave, and the NCSU Student Fisheries Society was awarded the National Most Outstanding Student Subunit Award at the 2011 AFS meeting in Seattle. The Leopold Wildlife Club and the Student Fisheries Society teamed up with the NCSU Fish and Wildlife Alumni Society to hold the first Wild Food Supper, which was a big success.

**FOREST CONCLAVE**

Of particular note this year, was the gargantuan task that the Forestry and Timbersports Club took on as they hosted the 55th Annual Association of Southern Forestry Clubs Conclave. Over 250 students and faculty advisors from 14 different universities spent three days on the campus of NC State for the purpose of promoting cooperation and friendly competition. By all accounts, the club did an incredible job of organizing and managing the many events associated with Forestry Conclave.

Victor Wassack (Senior, Forest Management), who was a major force in organizing Conclave, won the Southern Collegiate Championship of the Stihl Timbersports Series, help concurrently with Conclave, and will represent the Southern Region at the National Championship in Pigeon Forge, TN, June 1-3, 2012.

These two events, along with the 2012 North Carolina Arbor Day Celebration hosted by the Department, created a fun and festive environment that was enjoyed by hundreds of students, faculty, staff, and alumni.

Next year, the Leopold Wildlife Club will have the opportunity to welcome 22 schools from across the Southeast as they host the Wildlife Conclave in Southern Pines, NC on March 7-10, 2013.

Whether it is participation in clubs, academic and service learning activities, study abroad, research or public outreach, our students stand out as exceptional. Many students have obtained exemplary accomplishments this year. [A full list of these accomplishments are located on page 3]

**Congratulations to all of our remarkable undergraduate and graduate students!**
Our faculty and staff have likewise made major contributions to their fields this year and have been recognized locally, nationally, and worldwide. [These achievements are recognized on page 3]

FACTORy UPDATES

While we will miss them a great deal, we congratulate and give our best wishes to Dr. Dan Robison as he becomes the Dean of the College of Agriculture, Natural Resources and Design at the University of West Virginia, and Dr. Toddi Steelman who will start as Executive Director of the School of Environment and Sustainability at the University of Saskatchewan this summer.

We are very excited to welcome Dr. Roland Kays to the Department this year. Dr. Kays is the Biodiversity and Earth Observation Lab Director of the new Nature Research Center of the NC Museum of Natural Sciences and has a joint appointment with us here in FER.

Our faculty have excelled by bringing in record levels of external funding, including several large, multi-institutional and multi-disciplinary competitive grants. These research activities will be key to developing the new knowledge necessary to educate our students and allow our many stakeholders to make advances in effectively managing our resources in the face of population growth, increasing pressures on natural resources, and climate change.

CAREER FAIR

Enrollment in our undergraduate and graduate programs remains strong as students at all levels seek out meaningful careers in managing and improving our natural resources. We had our best ever Career Fair this fall, with 16 employers attending and many following up with on-site interviews. By preceding the Fair with a resume workshop, students were able to receive feedback on their resumes, and we heard many of the employers say that our students were very impressive and well-prepared.

As our faculty and staff reflect on our current students and especially our new graduates, we feel that our greatest sense of accomplishment comes from seeing where they go and what they achieve after they leave us. So, if I am allowed one final piece of advice to you graduates (no, it is no longer “Make A’s”), it is that you should make yourselves proud. Because, in the end, it is your own sense of achievement that will carry you through uncertain times and will allow you to continue to grow, learn and flourish.

Read more about the STIHL Timbersports Series and Forestry Conclave on page 27.
Woohoo! Another exciting and successful year completed. So, what’s our year been like?

PERSONNEL UPDATES:

- This year we congratulate Dr. Yu-Fai Leung who was promoted to full professor, a major milestone and achievement in any faculty person’s career.

- To keep our distance education programs competitive and effective we hired Erin Adair this year as an Instructional Technologist. Erin is a tremendous asset to faculty who teach on-line and to faculty who teach face to face classes but use technology in the delivery of course content. Erin has been with us since the start of fall semester and we are indeed fortunate to have her working with us.

- We are in the process of interviewing and hiring two new faculty in the sustainable tourism and community development areas. One of these positions carries a half time extension appointment with it. The other is a tenure track faculty position.

UNDERGRADUATE PROGRAM:

A look at our three undergraduate majors – Parks, Recreation and Tourism, Sport Management, and Professional Golf Management – shows we’re in good shape. Enrollment in these three degree programs was nearly 700 students this year. Perhaps more important than our enrollment numbers is the quality of education our undergraduates receive. We all know we have outstanding faculty, but the proof of the job they do and the proof of the quality students who graduate from our programs really comes from the professionals in the field who hire them. I wanted to share with you an email I received this spring from Tom O’Rourke who is the Executive Director of the Charleston County Park and Recreation Commission in Charleston SC. Tom’s email is confirmation of the caliber of students in our programs. He says:

“...On behalf of us in the field, thanks again. …

So, academically our undergraduates are well prepared for the professional jobs they will fill and they are in demand. In addition to academic success our undergraduates in the Professional Golf Management Program won both the Jones Cup Tournament and the Carolinas Cup Tournament. Their victories in these tournaments marks the first time they’ve won either of these tournaments and the first time any PGM program at any university has won both national tournaments in the same year. [Read more about the Carolinas Cup victory on page 25]

GRADUATE PROGRAM:

Similar to our undergraduate programs, our graduate programs are also doing well. This year we have well over 150 graduate students enrolled in our Professional Master of PRIM, our Professional Master in Geographic Information Sciences and Technology, our Master of Science in Natural Resources Outdoor Recreation, our Master of Science in PRIM and our PRTM Doctoral program. With our MS and PhD degree students we are able to fully or partially fund all of them – around 30 students – with a combination of faculty research grants and departmental monies. This year we will graduate our first cohort group in the on-line professional master’s degree program. We admit about 30 students per year in this program and we will graduate 27 this May. For those of you who may not be aware, distance education degree programs are notorious for high dropout rates (around 70%), but our faculty with leadership from Dr. Michael Kanters have developed one of the finest distance education degree programs in the country. Faculty who teach in this program have thought about how to deliver course instruction, retain, and graduate students on time. They have clearly been successful. I might also mention that in recognition of the fine work that has gone into this program, Dr. Michael Kanters received the NC State Gertrude Cox Award for Curriculum Innovation Through the Use of Technology in spring of this year.

RESEARCH PROGRAM:

Our research programs in active living, sustainable tourism, and human dimensions of natural and built environments continue to grow and our graduate students associated with these programs continue to distinguish themselves. Nearly all of our MS and PhD students attended and presented a poster or a paper at a regional, national, or international conference this year. Two of our doctoral students, Camilla Hodge and Chantell LaPan were awarded individual research grants to continue their work.

This year we had the opportunity to participate in the Chancellor’s Faculty Excellence Research Awards program. Basically the Chancellor put up $5 million and through a competitive process
would select 8 research proposals university wide to fund. The proposals had to be collaborative and interdisciplinary – cross college and cross departments – had to include 1 to 3 new hires, and had to be cutting edge research. Our faculty were the lead on two proposals. We were awarded one and asked to resubmit the other one next year. The one we were awarded is joint with our department, forestry and environmental resources department, computer science, and meteorology, earth and atmospheric sciences department. Dr. Hugh Devine is the lead on this proposal. Arguably the most exciting piece of this award for our faculty and graduate students is the visualization lab the award makes possible. This lab will showcase cutting edge technology and will allow our faculty to simulate real world environments to answer questions related to physical activity and built environments, sustainable tourism and rural community development, visitor perceptions of resource impacts and management actions to mitigate them, citizen and stakeholder analysis of healthy environments, and much more. The lab will enable us to push our research out to other venues local and global. The lab will be housed in Jordan I Hall and is under construction with an expected opening date in late fall 2012.

OGLEBAY SCHOOLS:

In addition to our undergrad, graduate, and research programs, our professional schools taught at Oglebay and in partnership with the National Recreation and Park Association (NRPA) continue to do well. This year we added the Green School. This school focuses on sustainable practices of parks and recreation programs from policy development, purchasing office supplies, retrofitting buildings, purchasing and maintaining equipment and vehicles, managing grounds, to visitor messaging and more. In its inaugural year the school enrolled 45 practitioners from across the country.

In sum, we are in good shape, our students continue to do well and be in demand, and our faculty continue to receive awards and accolades for their outstanding efforts. The economy seems to be on the upswing and we made it through a year with no significant budget cutting. We are hiring new faculty and looking forward to the 2012-2013 academic year.

This year the Department of Parks, Recreation & Tourism Management celebrated 65 years of educating students at the annual Alumni & Friends Banquet.

During the banquet, the Rho Phi Lambda Honor Society was able to raise over $1,000 through their silent auction that will go toward professional development conferences and activities.

The banquet was held on April 13th at the Raleigh Convention Center Ballroom. The night began with mixing and mingling during the cocktail reception and the silent auction. Guests were then treated to a fine dinner before ending the night with awards and recognitions. This year the 2012 Distinguished Alumnus was awarded to Dr. Linda Caldwell and the 2012 Lifetime Achievement Award was awarded to Dr. Karla Henderson.
The CNR Council is comprised of council officers, a representative for each recognized club, the student senate, and a liaison from the CNR yearly publication, the Pinetum, that chronicles all college activities and clubs.

The Council links all of the different CNR organizations and serves as the student council for the entire college.

The Council meets monthly to discuss current issues, problems, achievements, and concerns, as well as to develop ideas for better serving students. It is also responsible for allocating funds from academic fees to the student organizations for special projects. Funds are distributed based on attendance, need, support and the contributions made by that particular organization.

The Council also seeks to unite the students in CNR’s different departments.

The College of Natural Resources was represented by three students in the University’s 91st session of the Student Senate.

Kelly Cox, Park Watson, and Bryan Robison worked to advocate for the students of the College of Natural Resources by supporting legislation that allowed for increased student involvement and engagement.

These Senators made tangible changes to current university policies including:

- The Graduate Student Extended Leave Act
- Extend hours at the Atrium
- Support the addition of bike racks to buses
- Encouraged professors to slow the rate of new textbook requirements
- Encouraged professors to return one major assignment before the drop date
- Continued support for need based scholarships on campus

Among other achievements, the Student Senate was able to represent student interests in the NC General Assembly where student voices were heard regarding the issue of diversity. In addition, several clubs and organizations within the College of Natural Resources were able to receive funding through the Student Government appropriation process where the CNR Senators sponsored and facilitated their applications. These Senators spoke on behalf of budget cuts and increasing student fees, and the impact that these challenging economic times have had on their constituents. In order to increase transparency and communication, the ‘Student Voices’ platform was created on Moodle to connect CNR students and their Student Senate representatives.

Senators Cox, Watson, and Robison are proud to have been able to serve in the Student Senate this year, and they look forward to future involvement with the College of Natural Resources.

A full list of accomplishments from the 91st session can be found here: http://students.ncsu.edu/sgims/archive-91/bill/adjournment-sine-die-1450.html
I hate starting out articles with clichés, but they always say it is the darkest before the dawn. I came in as a freshman, just as a great president was leaving, and I found myself watching a great organization, that had opened its arms to a shy, short girl in Wildlife Sciences, devolve from meetings where every seat was filled, to meetings where more than ten present was a surprise. I do not believe it was the fault of the leadership in the following two years; it was a fault of circumstance. People graduated and left, and there was no one there to fill their places. In addition to this, our chapter has been in the shadow of 400+ clubs. A few events were planned – like our annual fundraising activity, the fish fry, movie nights, and the JDRF walk – but it seemed as if our chapter was in a coma.

But the beginning of this semester seemed to follow along with the cliché as well. It does seem to be getting brighter. This past semester we have focused on three ideas, with the major goal to promote the growth of our numbers, our usefulness to our members, and our morale. These three ideas are: networking, professionalism, and outreach. And despite the fact that we have only begun working towards these ideas a few months ago, we have already done great things.

Working on the networking angle, we made it a priority to attend the Region 2 Cluster Meeting in Atlanta, GA, early in September. We had six representatives there, a mix of MANRRS executive board and general body members. The feedback after the meeting was positive, and everyone who went, felt as if they had gotten something out of attending. A great benefit that we got out of attending the Regionals is that we were able to foster a relationship with a sister chapter from NC A&T University. In mid-October we held a Skype Conference talking with our sister chapter, and have already agreed to help them with an Adopt-a-Stream clean up event in early November.

In regards to striving towards professionalism, there has been progress; again, though we are few, we’ve accomplished a lot. We have always found interesting speakers to come and talk to our members and have extended the opportunity for anyone to attend. We held an informal talk, made by our own Vice President, Chelsi Holliday, on business attire early on in the semester. We also had a soil scientist – Dr. Alex Graves – come and speak with us about her research and her journey to where she is now. We are planning to have someone from our career center come for the next meeting to tell us about their wonderful services. A great event that we had about professionalism was a professional panel we held in early October, in which we had eight professionals come and talk to us about their experiences. The professionals ranged from African-American to Caucasian, were in all types of positions (business owners, professors, to name a few), and were in all types of scientific fields. Promotion went well for this event and we reached out to people who were not already in our chapter.

Outreach has always been something that our chapter has done consistently, but this semester we have stepped it up a notch. Early in the semester we held a cook-out and invited students to join us and learn more about MANRRS. We were present at the College of Agriculture and Life Sciences (CALS) Porch Party and the Welcome Back Pack! Event. We have reached out to EnvironMentors, a program that helps to give students in high schools from underrepresented backgrounds research experience in science, to potentially start a Jr. MANRRS chapter. We also walked in the JDRF Walk to Cure Diabetes on October 29, 2011. Several members braved the cold and wet weather in order to support the cause. We raised a sum of money to donate and had a great time participating. This year’s walk held extra meaning for our chapter as our historian was recently diagnosed with Type 2 Diabetes. We are also in the planning stages of helping Urban Ministries with a food drive.

I came to MANRRS as a freshman in 2008, at the end of an era, and through those years, it seemed that the organization had begun a slow decline. As a senior now, graduating in the spring, I’m glad to see that while one era has been dead and buried, another era might just be starting.
The Forestry Club at NC State has a long and distinguished history. Its members include students, faculty advisors, and technical advisors, who are dedicated to furthering the interests of forestry. The club combines many of its activities and efforts with those of the Society of American Foresters (SAF) on the national and local levels.

Club members participate in intercollegiate woodsman’s competitions, held throughout the Southeastern U.S., and sponsor an intercollegiate competition of its own, known as Rolleo. Members also participate in regional and national SAF conventions. Other activities include community service, practical experience, guest speakers, career development, and fund-raisers. Active memberships are open to all students pursuing forestry related studies. Associate memberships are offered to faculty, alumni, and industry members through a club-wide election process.

CRADLE OF FORESTRY & NATIONAL SAF CONVENTION

This year in particular has been a busy one for the club. Since Fall 2011, the club has been selling firewood as a way to raise funds. The club competed in their first Timbersports competition of the year at the Cradle of Forestry in the Pisgah National Forest, located near Asheville, NC in early September. Though they won the quiz bowl, they placed 2nd overall. Later that month, the club helped volunteer with the two day long Smithfield Logging Biomass Expo. Towards the end of October, several members traveled to Hawaii for the National SAF Convention. There they hiked the 22 mile Kalalau Trail then flew to Honolulu for the convention.

ROLLEO & CONCLAVE

The club decided to postpone the annual forestry competition, Rolleo, since NC State was hosting the 55th Annual Association of Southern Forestry Conclaves this year. [Read more about Conclave on page 27]

TIMBERBEAST TIMBERSPORTS COMPETITION

In February, the club attended the Timberbeast Timbersports Competition at Virginia Tech. Even though the wind chill reached -9 degrees that day, the Forestry Club was still able to win first in both technical and physical events.

The club has worked extremely hard and has been very dedicated in what we do. We appreciate all the support and help we have received from the College, professors, alumni, and sponsors. We give special thanks to our advisor Joseph Roise.
The NC State student chapter of the Society of American Foresters (SAF) had a very busy schedule this school year.

The Society of American Foresters is the national and educational organization representation the forestry profession in the United States.

The mission of the Society of American Foresters is to advance the science, education, technology, and practice of forestry; to enhance the competency of its members; to establish professional excellence; and, to use 4th knowledge, skills, and conservation ethic of the profession to ensure the continued health and use of forest ecosystems and the present and future availability of forest resources to benefit society.

The 2011 fall semester began with the planning of our November excursion to the SAF national convention. With Dr. Joe Roise and Mrs. AnneMargaret Braham leading the way, seven students hiked the Kalalau Trail on the Hawaiian island of Kauai. We started our 22-mile trek that runs along the Na Pali Coast on a beautiful Saturday morning.

Breaking the first 11 miles up into two days, we were able to take in the breathtaking views of the mountainous scenery and beautiful beaches that were constantly around us. The slippery rocks and steep slopes left us cautious as we continued on one of America's most dangerous trails. After two full days of hiking, we made it to the Kalalau Beach. We were able to rest and enjoy our time at the beach by picking oranges, playing beach volleyball with the local natives, and swimming in the ocean. We hiked out over another two-day period and then traveled to Waikiki to the convention.

Our quiz bowl team, comprised of Mike Cheston, Sam Honeycutt, Jay Dysart, and Aaron Boyd, made a very good run in the competition and placed in the final four. While at the conference, we attended many presentations to learn about the current state of forestry across the U.S. and the world, talked with potential future employers, and met many forestry students around the country. We made sure to take time and enjoy our vacation by going to the beach and visiting Pearl Harbor.

We have a lot of people to thank for making this trip possible for all of us to attend. To name a few, they are: Dr. Joseph Roise, Mrs. AnneMargaret Braham, Dr. Barry Goldfarb, Mrs. Lisa Schabenberger, and the Forestry and Environmental Resources Department.

**APSAS REGIONAL CONFERENCE IN WYTHEVILLE, VA**

We started off the year 2012 by attending APSAF, the regional conference that took place in Wytheville, Virginia. Here we were able to meet with professionals from the area and learn about, more specifically, what is going on with forestry in North Carolina, South Carolina, and Virginia.

Founded in 1908 at the University of Washington, Xi Sigma Pi is the only honor society that recognizes excellence among Forest Management students. Today, the society honors various majors in natural resources. North Carolina State University’s Mu Chapter was founded in 1940.

This year our chapter welcomed 26 new members into the honor society at our initiation banquet on March 29th. For the 2011-2012 year, the chapter President was Stephen Kinane, the Vice-President was Kevin Brown, and the Ranger was Taek Joo Kim. The chapter Advisor is Dr. Richard R. Braham.
The International Society of Tropical Foresters (ISTF) at NC State is a student-run, non-profit organization that connects students and faculty who share an interest in international forestry and environmental issues. As the world of forestry evolves year to year, the topics and concerns discussed within ISTF evolve as well.

MONTHLY GUEST SPEAKERS & ANNUAL CONFERENCE

ISTF hosts a guest speaker at every monthly meeting to lead a discussion that typically deals with the speaker’s current research or area of expertise. In addition to these monthly meetings, ISTF typically participates in at least one other conference at another school every year. In the Fall of 2011, members of ISTF attended the Duke University’s symposium titled, “From Research to Reality: Exploring how Biomass, Climate Change and Forest Technology are affecting the forests of the Southeast.”

SPRING SYMPOSIUM

Every spring, ISTF hosts a symposium to bring together students, faculty, and interested professionals to discuss and analyze a major issue in the field of international forestry. The symposium is completely student-directed, and is a great opportunity for learning about current global forestry issues and networking with invited speakers. This year, we invited scholars from various institutions located around the country to speak on the unique forest management issues that are present in tropical forestry. We had three panels in total and two speakers per panel.

ISTF GOALS

• To advance the science, technology, education and practice of professional forestry in the tropics and to use the knowledge and skills of the profession to benefit society as a whole

• To encourage and support the activities of the international programs of the CNR and the Department of Forestry and Environmental Resources at NC State

• To encourage and support ISTF members in their personal and professional development while undertaking their degree programs at NC State

5TH ANNUAL ISTF SYMPOSIUM

FRIDAY APRIL 13, 2012
“TRADE-OFFS IN TROPICAL FORESTRY”

Panel One
Facilitator: Dr. Erin Sills
Topic: Parks vs. People - Bridging the Gap

Speaker: Dr. Jonah Busch (Conservation International)
Title: Structuring Economic Incentives to Reduce Emissions from Deforestation in Indonesia

Speaker: Dr. Roland Kays
Title: Monitoring tropical animal communities with arrays of motion sensitive camera traps

Panel Two
Facilitator: Dr. Fred Cubbage
Topic: Productive Use of Forests - Making Logging Sustainable & Legal

Speaker: Olli-Pekka Kuusela (Virginia Tech)
Title: Performance Bonds in Tropical Timber Concessions

Speaker: Jeff Prestemon (US Forest Service)
Title: Assessing the U.S. Forest Product Trade Impacts of the Lacey Act Amendment of 2008

Panel Three
Facilitator: Dr. Mitch Renkow
Topic: Forestry & Agriculture: Balancing Food Security & Biodiversity

Speaker: Dr. Deborah Lawrence (University of Virginia)
Title: Agriculture and Climate Trade-offs in Tropical Forestry

Speaker: Dr. Robert Beach (RTI)
Title: Managing Land Use for Food Security, Forest Conservation & Ecosystem Services
This year, the North Carolina State University Leopold Wildlife Club has grown in membership and has been involved in numerous activities in the field as well as the classroom. The club is pushing 80 registered members and looks to gain even more members in the future. The club meets bimonthly on Monday evenings and has hosted a variety of guest speakers including, Frank Newell, a lifelong wildlife rehabilitator, Beth Gunn, a NC Wildlife Resource Commission (NCWRC) educator, and Josh Biesecker, an NCSU alumnus and USDA District Wildlife Biologist. The club participated in a NCWRC sponsored wildlife practical and received detailed information about the Study Abroad opportunities sponsored by the NCSU Fisheries, Wildlife, & Conservation Biology Program. In September, the club hosted a snaring workshop at the Schenck Memorial Forest led by Joey Van Dyke. Also, the club participated in National Hunting & Fishing Day at Lake Raleigh Woods, the 8th annual Bass Lake Park Day in Holly Springs, North Carolina, and in the annual Howell Woodstock at the Howell Woods Environmental Learning Center.

Each spring we volunteer at the Dixie Deer Classic where the club runs a booth informing visitors of the club’s activities and conservation efforts, and raise money by raffling off merchandise. At this event we also help with the scavenger hunt, held at the Dixie Deer Classic, so that younger participants have a chance to learn about wildlife. Additionally, we maintain and monitor wood duck boxes at Yates Mill Pond. All these amazing volunteer opportunities provide our members with hands-on fieldwork and leadership experience.

At the peak of fall migration in October, the club led a morning bird walk at Schenck Forest where the bird list topped 60 species. Additionally, the group spotted a Tennessee warbler, which was a new addition to the Schenck’s comprehensive species list. Leopold Wildlife Club members participated in a bat survey at Turnipseed Preserve and continued the Adopt-a-Highway service on Penny Road. Leopold club members traveled to Kiawah Island, South Carolina for a weekend kayaking excursion in November and accumulated a 75+ species bird list including black skimmer and American oyster catcher. The club, along with the Student Fisheries Society, hosted the first annual Wild Food Supper to raise money for the 2013 Southeastern Wildlife Conclave, which will be held at North Carolina State University. The supper included an assortment of wild game, fish, and produce. There was a best dish contest, silent auction, and door prizes.

This year, 19 members of the club participated in the 2012 Southeastern Wildlife Conclave, hosted by University of Tennessee-Knoxville at Fall Creek Falls State Park, with 24 universities/colleges in attendance. The club competed in several events including: Quiz Bowl, Target Archery, Trap Shooting, Canoeing, and Fly Casting.

For inquiries or if interested in joining the Leopold Wildlife Club please contact Dr. Moorman at chris_moorman@ncsu.edu

2011 - 2012 Officers

President
Rachel Conley

Vice-President
Casey Williams

Treasurer
Jennifer Powell

Secretary
Carolyn Hinshaw

CNR Council Representative
Park Watson

Activities Chair
Charlie Sanders

Dixie Deer Classic and Conclave Chair
Mark Parsons

Social Media Chair
Kevin Durso
North Carolina State’s TAPPI chapter is an organization composed of Paper Science and Engineering students working to improve the knowledge, networking, and professionalism of its members. TAPPI sponsors annual events and trips, such as regional and national conferences, as well as social events for TAPPI members. All TAPPI members are invited to join the monthly social event held by TAPPI, such as ice skating and paintball. Also, TAPPI holds a cookout annually for the students before exams to enjoy the end of the school year.

Our TAPPI student chapter is very active in service projects to improve community involvement and to teach the community about the paper industry. The chapter annually participates in Service Raleigh and Earth Day events. Also, TAPPI participates in other service projects, such as Arbor Day and Morrisville Elementary and Joyner Elementary Science Go Round. During Arbor Day, paper science students go to the Farmer’s Market and show the children and adults how paper is made. As some students help the children with hands-on activity on making paper, the other students would inform the rest of the adults about the paper industry. This includes a brief history of paper, how paper is made, and how recycling helps the environment. For the elementary schools, students travel to the schools, teach the children about the paper industry, while also helping the children make their own paper.

TAPPI members are given numerous job opportunities, as well as opportunities to learn more about the industry, while getting to meet professionals in the industry. Pre-night events are a part of this process, where prospective companies give a catered presentation about their company, as well as their current openings. These events occur regularly in the fall and spring semesters for TAPPI members. This gives students a chance to get a good dinner and enhance their knowledge of each company before they interview with them. Also, TAPPI organizes trips to student summits and conferences to listen and interact with professionals. TAPPI is an excellent student professional organization that helps the paper science students at NC State grow and evolve into skilled members of the workforce.
It has been an exciting year for the Forest Product Society here at NC State University. Students' participation, along with communicating with faculty, has led to many successful events.

WOODTURNING

Woodturning was introduced to the organization this year and many students enjoyed themselves while learning and expressing their creativity through the visible transformation of wood. Our instructor Brett Boger, a fellow NC State undergrad, taught everyone from scratch how to use a lathe and woodworking hand tools. Eight students finished the afternoon with beautiful Poplar goblets to take home. A second trip to the craft center this past February gave students the opportunity to turn wooden bowls. The organization also had a signing of a wood crafted North Carolina state map. Dr. LaPasha worked on the routing and constructed the model.

FOREST PRODUCTS SOCIETY NATIONAL CONFERENCE

In addition, the Forest Product Society National Conference will have members present and presenting their research in Washington D.C. Vice President Brian Rashad Jackson will be presenting his Duke F.A.C.E (Free Air CO2 Emissions) Project on treatment influence of ambient and elevated CO2 in density and growth ring width analysis. Sam Gilliam is also presenting his research on OSB strength properties during flood related disaster events by measuring its sheathing dimensional strength properties under simulated flood water conditions.

President of the organization, Daniel Carter, led the evening group meetings at Hodges. Treasurer Stacey Thorton managed the group’s finances and budgeting. Michele Vanderlip’s energy and planning attributes to the fun and achievements of the Forest Product Society as elected Secretary. Her work ethic is of the highest standards.

The CNR Council Committee, along with the Forest Product Society, empowered students through services and leadership opportunities encouraging profession and scholastic development.

2011-2012 OFFICERS

President
Daniel Carter
Vice-President
Brian Rashad Jackson
Treasurer
Stacey Thorton
Secretary
Michelle Vanderlip
This year has been an engaging one for our 50 active Rho Phi Lambda members. As the honorary fraternity for students in the Department of Parks, Recreation, and Tourism Management, we Rho Phi Lambda members pride ourselves in participating in professional development opportunities such as conferences and community service projects, as well as taking part in campus activities.

**National Recreation & Park Association (NRPA) Conference**

In the fall, five Rho members traveled to Atlanta for the National Recreation and Park Association (NRPA) conference. The members attended educational sessions and built their professional network. Renowned skateboarder, Tony Hawk, was the keynote speaker. In addition to attending conference sessions, the group did some sightseeing, visiting Coca-Cola World and the famous Georgia Aquarium.

**Annual Egg Hunt**

This year, we brought back our annual Egg Hunt for special population children in Raleigh, at Laurel Hills Community Center. This egg hunt provides these young people the opportunity to feel success! We served 18 kids and over 50 family members at our April 1st event. Each child went home with a large amount of eggs and enjoyed coloring and indulging in cake, ice cream, and juice snacks. All of the great volunteers made personal connections with each family, leaving them with positive and lasting memories.

**PRTM Alumni & Friends Spring Banquet - Silent Auction**

On April 13th we held out biggest fundraiser of the year: our annual silent auction at the PRTM Alumni and Friends Banquet that was held at the Convention Center in downtown Raleigh. This was the biggest auction and event yet! We were able to raise over $1,000 to use toward professional development in the coming years. Rho members did a great job of gathering items for the auction and putting it all together for the event. We had event coordinators this year that did an excellent job and exceeded any expectations we could have imagined. It was a great year for Rho and the future is very bright.
The PGA Golf Management (PGM) program has taken initiative through the last couple years to improve the program and club. It is currently consists of about 100 students who are dedicated to learning the business of golf and playing the game they love at NC State’s Lonnie Poole Golf Course.

Dr. Robb Wade, Andy Betz, and Susan Colby have nurtured this program for many years, but are now letting a few outstanding students hold the reins. Those students are the leaders of the PGM Club and organize all of PGM’s events, tournaments, and seminars.

With the student leaders in charge, there has been an increase in opportunities for student leadership positions, resume development, and community service. Some of these positions include PGM Ambassadors, Get-Internship-Ready (GIR), Fit4Golf, and three major committees (Event Planning, Media Committee, and Tournament Committee).

Phillip DesRoches, a junior, states “It is almost hard to believe that our program has grown so much since I was a freshman, because there is such a diversity of committees and organizations within PGM. I can now involve myself with different areas and easily do something I am interested in.”

The NC State PGM program has expanded beyond its own organization and dedicates much of its time to the community. PGM Students are involved with the First Tee of the Triangle, a golf instruction school that teaches youth life-long skills and traits through the game of golf by implementing the value of responsibility, integrity, and perseverance. Also, through a program called Adopt-a-Hole, students have the opportunity to help their very own Lonnie Poole Golf Course. Through adopting a hole at the golf course, students take care of the greens, pick up trash, and rake bunkers to make the course healthier. Get-Internship-Ready is an organization that allows students to learn how an effective golf course employee can make an immediate impact at his or her respective facility. Another new program of extreme interest is Fit4Golf which is a program that meets three times a week to examine golf related workout routines and exercises.

Thanks to the Tournament Committee, participation at the PGM tournaments has been a huge success. During the 2011-2012 year the PGM program held a total of 31 tournaments (nineteen 9-hole and twelve 18-hole).

The College of Natural Resource’s PGA Golf Management program was also nationally recognized this year. Students showed their skills when they became national champions of the Annual Jones Cup during the 2011 Fall Semester. The Jones Cup is a national event in which all 19 PGM Universities play against each other over a two day long, 36-hole stroke play tournament in Porte St. Lucie, Florida. NC State also conquered their homeland by winning the Carolinas Cup during the 2012 Spring Semester in Myrtle Beach against eight other PGM Schools. [Read more about the win on page 25]

Freshman Wes Conover states “It has been such an exciting year! Everywhere I turn there is another tournament we are winning, new technology to learn about, and upcoming social events to meet new students.”

Great things are happening within the PGA Golf Management program and students are excited for the upcoming years. For future projects, Stephen Limpach said, “We have dedicated hours of hard work into establishing this program where it is today. Next semester we are looking to create marketing publications and videos for prospective students that show the college life of a PGA Golf Management student at NC State.”

2011-2012 LEADERS
Steve Houg, Brian Riddle, David Gamble, Stephen Limpach & Philip DesRoches
The summer camp that Fisheries, Wildlife, and Conservation Biology students attend following their third year at NC State is an experience that starts at the coast, travels through the piedmont, and finishes out in the Great Smoky Mountains.

The camp lasts a total of six weeks, during which time wildlife and fisheries students gain skills and knowledge that give them a competitive advantage when they enter the professional field.

**WEEK ONE - DUKE MARINE LABS IN MOREHEAD CITY, NC**

The first week was spent at the Duke Marine where we learned a number of marine fisheries management techniques, including a variety of active gear such as hook and line sampling, seine nets, and passive gears, like gill nets. The experience everyone remembers most from coastal week, if perhaps not with the fondest of memories, is the day of deep sea fishing. Nothing brings a group closer than a shared trial of sea sickness and sunburn, although plenty of fishing and data collection helped settle some of our uneasy stomachs.

**WEEK TWO TO WEEK FIVE - HILL FOREST IN DURHAM, NC**

We then spent three weeks learning piedmont wildlife management techniques in the Hill Forest. These weeks were full of early mornings in the field (and I mean early!) and late nights studying. During that three week period some of the most iconic summer camp moments happen, including fawn tagging and bird banding. The fifth week involved freshwater fisheries management. Boat electrofishing was probably everyone’s favorite technique we learned that week.

**WEEK SIX - GREAT SMOKY MOUNTAINS INSTITUTE AT TREMONT, TN**

Finally the last week of summer camp was spent at the Great Smoky Mountains Institute at Tremont in Tennessee. That was the most relaxing week of summer camp. We were able to hike trails, swim under waterfalls, and catch salamanders. Of course I can’t forget the polar plunge! Nothing wakes you up quite like a quick dip in a clear and frigid mountain river.

All in all, summer camp adds up to the most memorable six weeks any Fisheries, Wildlife, and Conservation Biology student has at NC State, as well as some of the most valuable.
The College of Natural Resources welcomed over 120 incoming freshman and transfer students to come for an afternoon Snack Attack featuring the favorite snacks of our CNR Student Ambassadors such as cookies, popsicles, chips, and candy.

It was a great opportunity for fellow classmates, faculty, and staff to mix and mingle as well as participate in friendly competitions ranging from Cornhole to Minute to Win It competitions! In addition to fabulous prizes, each incoming student received their very own CNR limited edition t-shirt!

The College of Natural Resources hosted the 2nd annual holiday trimming event in the Biltmore Lobby. Serving homemade cookies and apple cider, this event provides students with an opportunity to mix and mingle with faculty and staff within the college as well as trim the holiday tree in honor of our Christmas Tree Genetics Program.

The Christmas Tree Genetics Program in the College of Natural Resources strives to improve the growth, quality and pest resistance of Christmas tree species important to NC including Fraser Fir, Virginia Pine, Eastern White Pine and Eastern Red Cedar. It also screens new species and is conducting genetic conservation efforts for Fraser Fir, a globally threatened species. Each year, the tree is donated to the College of Natural Resources by one of our local farmers with which we collaborate.

This year our thanks go to Diana, Byron and Khoury May of Jordan Lake Christmas Tree Farm.
Sunday, March 11th marked the first time in history that a PGA Golf Management school held the Jones and Carolina’s Cup trophies within the same calendar year.

On Thursday, ten elite NC State PGA Golf Management students trekked 175 miles to Myrtle Beach, S.C., with hopes of ousting the Carolina’s Cup competition on the newly renovated Hackler Course. After his practice round on Friday, senior Alex Kowalski warned that the new greens were firm, tricky, and unresponsive.

“It’s gonna make for an interesting couple of days,” he said.

The competition is set up to take the lowest eight stroke-play scores of each team, each day. The scores are totaled, and added together for a final combined team score. Whichever school has the lowest team score for the two days becomes the Carolina’s Cup champion.

With temperatures in the 50’s on Saturday, the NC State squad finished with seven of their eight players in the 70’s, shooting a combined team score of 619. Coastal Carolina trailed by just seven shots, with a team total of 626. Kowalski had high expectations for Sunday.

“It’s only seven shots – that’s nothing in team play. We gotta stay strong tomorrow if we’re gonna win this thing,” he said.

The final round brought cool morning temperatures with an afternoon high of about 65 degrees. Though the weather posed no immediate obstacle, the competitors were in for a surprise with the course set-up. The Hackler was playing at just over 7,000 yards, with pins tucked away in almost unreachable corners.

“It was a whole different golf course out there today…if you were even on the [par] 3’s, you would have picked up at least 2 or 3 on the field,” said Mark Ingols, a sophomore from Coastal Carolina. NC State senior Bryce Aronson also commented on the conditions after his round. “It was almost unfair…there wasn’t hardly anywhere you could hit it.”

Kowalski, and fellow senior, Josh Rackley, shot a pair of 76’s and led NC State to a one-point win against Coastal Carolina.

The final score was 1269-1270.

Campbell University took third with a score of 1290, and Clemson, in fourth, with a score of 1291.

Kowalski was the runner-up medalist in the event, with a two-day combined score of 151.

“Yeah, I would’ve liked to nab the individual…wish that putt had dropped on eighteen,” Kowalski said, with a grin. “Bottom line is…we rallied together, and came home with the cup.” He trailed Coastal Carolina’s Nick Keefer by just one shot. But in the golf world, one shot means everything.
DEAN’S LIST RECEPTION

By Tiffany McLean

The Academic Affairs Office hosted the first ever Dean's List Reception to honor those full-time students with at least a 3.25 GPA (15 hours or more) or a 3.5 GPA (12-14 hours).

The event started with special guest speaker, Dr. Tiffany Kershner, the Coordinator for Distinguished Scholarships and Fellowships in the Honors College, giving an information session on the wide variety of premier scholarships and fellowships for which CNR top students can apply. Immediately following, students moved into a mix and mingle with other students, faculty, and staff. The reception was just a small way for the College of Natural Resources to show its appreciation to the top performing students.

CNR ETIQUETTE DINNER

By Park Watson

This past February the University Club was over-flowing with the best and brightest students the College of Natural Resources has to offer for a CNR Etiquette Dinner.

Over 100 students participated in the Business Etiquette Dinner, hosted by the Engaging Leaders Program.

Dressed in formal attire, students were treated to a four-course meal while Sara Concini, from the Career Development Office, discussed various dining & mingling skills. Students learned skills ranging from how to master those difficult entrees to sending thank you cards. Alumni, faculty, donors, and business professionals from a realm of natural resources backgrounds were seated at each table to engage and interact with students.

The CNR Business Etiquette Dinner was successful – it was a great chance for students to learn about professionalism in a dinner setting.
This year, Conclave was held at NC State on Centennial Campus in March. The club had prepared for this three day event since January of 2011.

Fifteen colleges and universities within the southeast attended this year. During the first day of Conclave, the Collegiate TimberSports Series, hosted by STIHL, was held at the State Farmers Market in Raleigh, NC. The College of Natural Resources also held Arbor Day in conjunction with this event to help promote the activities of the college and its students. Victor Wassack, a senior in Forest Management and the Forestry Club Vice President, competed in the STIHL competition and won first place. He will be traveling to Pigeon Forge, Tennessee to further compete for nationals. Other competitors from different schools also had chances to compete in timbersports competitions at Conclave.

In all, the NCSU Forestry Club placed 1st in technical and 4th in physical, giving an overall placing of 3rd place.

Hosted by NC State University, as part of the 55th Annual Association of Southern Forestry Clubs Conclave, top professional and collegiate lumberjacks from all over the south converged on the Farmers Market in Raleigh on Friday, March 16th, to compete in the Southern Qualifier. The eight pros faced-off across six disciplines, the hot saw, single buck, springboard chop, standing block chop, stock saw and underhand chop. The top four competitors advanced to the U.S. Championship.

In the Collegiate Series, the participating universities selected their best lumberjacks or jills to chop and saw in four disciplines – the single buck, standing block chop, stock saw and underhand chop – using professional-sized wood and rules. The competitor with the most cumulative points earned a $1,000 scholarship from STIHL for their school and advanced to the 2012 STIHL TIMBERSPORTS Collegiate Championship.

Victor Wassack, a student in Forest Management, won the Collegiate Regional Championship becoming the 2012 Southern Collegiate Champion and received an automatic entry into the 2013 Professional Series. Wassack won with a time of 11.2 seconds after a tight “Stock Saw Off” with a Virginia Tech student. Wassack advances to the U.S. Championships in June in Tennessee.
“...he made a hole in one on #17!”

The 2012 CNR Alumni and Friends Golf Tournament was a great success. The annual Tournament is a great way for alumni and friends to reconnect, as well as network with their fellow competitors, at NC State’s Lonnie Poole Golf Course. Friends from all over gathered to help fill up the tournament and support the College of Natural Resources.

Sponsored by the NC State Natural Resources Foundation Inc., the 3rd annual event went very well from start to finish. The weather was fantastic and the outcome was exciting! The format was 4-Person Superball, which added for a fun atmosphere and quick day.

In the First Flight, Tom Strange, Tim Ellenson, Chad Ferrell, and Joe Winker posted an astonishing 49. To win the Second Flight, Doug Wellman, Phil Rae, Judy Peel, and Lennie Barton posted a solid 61. However, the highlight of the day came from Ralph Haddock when he made a hole in one on #17!

The tournament could not have been pulled off without the help of many volunteers, donations, and vendors. We thank everyone that could help be a part of such a great day.

NC State’s very own PGA Golf Management students were abundant throughout the day, helping operate the event as well as forecaddie for the groups. “It was a fantastic way to meet alumni and dedicated people within our field,” said Matt Jones, a senior in PGA Golf Management Program.

We look forward to next year, as the tournament will only keep getting better.

EARTH DAY 2012: CNR SUPPORTS THE EARTH!

By Julia Babuin

This year the College of Natural Resources made a big splash at Earth Day. In total, there were nine tables set up from various programs and clubs that are a part of the College of Natural Resources.

A group of CNR Ambassadors decided to build a display that would create awareness of the college and its wide range of programs, as well as the amazing green careers those programs lead to. The group that planned the display for the brickyard included Liz Robison, Liz Myers, Krystal Carter, Blake Newell, and myself, Julia Babuin. We set up a display table with items that represented the college such as a pair of waders, hiking poles, a hard hat, and a magnet made by Wood Products students.

While we were out there, we had our “College of Natural Resources Supports the Earth!” banner with us. Earlier that week we encouraged students, staff, and faculty to come and add their hand print to the banner to show off in the Brickyard. On Earth Day, we brought it out, along with our paint supplies, and encouraged the rest of the NC State students, staff, and faculty to come join the College of Natural Resources in supporting the Earth by adding their hand print to our banner.

We are proud to see our project be such a success and hope to see our banner hanging in Biltmore!
Bachelor of Science in Environmental Sciences
Watershed Hydrology
Martha A. Hall

Bachelor of Science in Environmental Technology & Management
Matthew J. Barnes
Eric G. Freeman
Jonathan M. Garner
Christopher D. Hutchinson
Christopher G. Jennings
Jamiesha G. Johnson
Elizabeth F. Jones
Matthew H. Morris
Shannon L. Myers
Sonum A. Nerurkar
Lii Y. PiLo
Andrew W. Radford
Samuel C. Scott
Alan P. Shafter
Heather L. Shipman
Robert C. Trimble
Samuel W. Womack
Samuel J. Younger
Joseph C. McManus
Bryce E. Morgan
Ralph M. Smith

Bachelor of Science in Fisheries, Wildlife & Conservation Biology
Brittney L. Brown
Kevin R. Brown
Danielle Burgess
Rachel E. Conley
Katie E. Crews
Mary E. Cunningham
Jessica C. Goldman
Michael G. Gunn
Nathan J. Jasper
Jodi M. Mitchell
Asia J. Murphy
Taylor J. Pardue
Alexander L. Parker
Jennifer G. Powell
Margaret E. Ronke
Meredith G. Schooley
Lauren E. Seay
Barbara A. Stevens
Cody S. Stone
Joshua O. Street
Brantley N. Van Zile
Casey D. Williams

Bachelor of Science in Forest Management
Alan L. Aldridge
Charles C. Bass III
Aaron E. Boyd
Charles M. Cheston
Nathaniel B. Cramer
James N. Dysart
Ty A. Goy
Edward J. Hull
Stephen M. Kinane
James R. Moeller
Piscilla R. Morris
Travis E. Norman
Andrew W. Stewart
Victor T. Wossack
Neil Williams
Matthew B. Ziglar

Bachelor of Science in Natural Resources
Molly M. Bishop
William J. Coldwell
Drew A. Hatley
Erika Leuschinger
Matthew A. Miller
Sarah-Elizabeth Miller
Lindsey J. Woolridge

Master of Environmental Assessment
Carra M. Herring

Master of Science in Forestry
Annaiki Allmoe
Mark A. Brand
David A. Cerda Granados
Eliana N.M. Inkilainen
Blake M. Jordan
Nathaniel L. Osborne
Aaron J. Vuolo

Master of Natural Resources
Robert A. Conrad
Brunell R. Guglielm
Mellony O. Haskinson
Amelia A. Schmidt

Master of Science in Natural Resources
William L. Marks
Russell W. Myers

Doctor of Philosophy in Forestry & Environmental Resources
Rachel L. Cook
Laurie W. Gharis
Olof A. Drons
Karen R. Hall
Cristian R. Montes

Department of Parks, Recreation & Tourism Management
Brent D. Embler
Margaret L. Fearing
Bradley E. Foster
Wesley S. Green
Jordan E. Grossclose
Raven L. Johnson
John G. Jones IV
Tuijunia W. Keech
Casey M. Kilburn
Abbey L. Leitner
Brandon E. Levitzow
Matthew T. Liles
Sydney L. Maynard
Ashley A. Merrill
Dino A.M. Nuguid
Meghan M. Dees
Dovontie K. Edwards
Brett D. Embler
Margaret L. Fearing
Bradley E. Foster
Wesley S. Green
Jordan E. Grossclose
Raven L. Johnson
John G. Jones IV
Tuijunia W. Keech
Casey M. Kilburn
Abbey L. Leitner
Brandon E. Levitzow
Matthew T. Liles

Bachelor of Science in Professional Golf Management
Christopher B. Crews
Joseph N. Kirby III
Christopher L. Mills
Branden M. Rosinski
Daniel M. Torbush

Bachelor of Science in Sport Management
Gregory J. Baskwell
Steven M. Becker
Ashley M. Berfeld
William S. Blackley
Tyler Bolton-Fuhrman
Bradford C. Brower
Jonathan T. Brown
Russell E. Burke
Jessica K. Chorba
Casey D. Cornell
Ira C. Dogruyol
Jonathan D. English
Patrick M. Giggley
Steven P. Godwin
Shaton D. Grant
Jonathan J. Greenstein
Graham M. Grosscose
Brittney D. Hardman
Ryan W. Hill
Michael T. Holmes
Cody L. Hooper
Sara R. Hora
Kalisha L. C. Hubler
Matthew P. Hyman
Alusinee S. Kamara
Joseph E. Kenney
Kimberly R. Kern
Cameron T. Kindlick
Kyle M. Kiser
William S. Marshall
Sondhya Nagaraj
Kathryn A. Page
Jordan R. Petit
Willie G. Prigden
William J. Rollinson
Christopher W. Schroeder
Jonathan E. Smetana
Jeremey D. Smith
Sommer H. Snyder
Frank J. Sorrentino
Jai K. Sun
Carly A. Swanson
Mary Sykora
Emily A. Taser
Derrick O. Thornton
Ashley R. Trolough
Joseph A. Webb
Jonathan J. Will
Matthew J. Williams
Edward G. Williamson
Justin R. Willis

Master of Parks, Recreation & Tourism Management
Charles N. Anderson III
Sean C. Baldwin
Susan Baptist
Jennifer K. Benedick
William P. Billings, Jr.
Pattie J. Broswell
Rachel W. Burrows
Travis J. Cospa
James C. Conner
Jennifer E. Crouse
Christopher L. Davis
Anthony V. DiMarzio
Joel A. Dunn
Jordan R. Green
David F. Griffin
Paul A. Herbert
Colten Marble
Shawn L. Marble
Jennifer J. Matkins
Jenelle L. Mick
Stacey A. Poythress
Kira C. Stewart
Kyle M. Swaingood
Albert B. Yopp

Master of Science in Natural Resources
Chelsey A. Wolden-Schreiner

Master of Geospatial Information Science & Technology
Christopher A. Belcher
Amy W. Csu
Bradley S. Neish
Bernice O’Hanlon
Kelly M. Tomlinson
NC State has helped me become the person I am today. These past four years exceeded all my expectations of college, and the things I have learned inside and outside the classroom here have set me up for success as an alumna.

Ashley Trobaugh
Sport Management

College is more than time spent in a four-walled classroom. It is time spent learning about what’s inside you and what makes you! NC State is the definition of personal development.

Elijah Gore II
Paper Science & Engineering

PRTM, CNR & NC State has given me opportunities to expand on my education that I thought were never possible. The faculty and staff are more than mentors, they are family that have been there every step of the way, helping me to succeed and grow. The faculty and staff in PRTM, and those that I have connected with elsewhere on campus, are people I will truly miss the most. Thank you from the bottom of my heart! Best wishes.

Mark T. Phillips
Parks, Recreation & Tourism Management
Senior Class Photos

Seniors from Parks, Recreation & Tourism Management (PRT 458)

Seniors from Fisheries, Wildlife & Conservation Biology (FWS 453)
I’m so thankful to graduate from a college that has given me the opportunity to actually get out in the field and apply what I’ve learned in the classroom. With the support and guidance from the faculty and staff in CNR, I feel fully prepared to be a successful working professional.

Carly Swanson
Sport Management

My time here at State has been one of the best I have had and it has allowed me to grow both in my professional career and personal life. I have had a lot of wonderful times here at State in gaining my experience and am looking forward to using them in the field.

Kyle Meadows
Fisheries, Wildlife & Conservation Biology
Congratulations

CLASS OF 2011 - 2012
Established in 1929, the College of Natural Resources is one of the oldest, and currently one of the largest schools of its kind in the nation. The College includes three academic departments: Forestry and Environmental Resources; Parks, Recreation and Tourism Management; and Forest Biomaterials. All offer undergraduate and graduate educational opportunities and conduct teaching, research, and extension activities directed toward understanding and conserving a healthy productive environment.

VISION

We desire to improve the sustainability of the world’s natural resources and the economic and social condition of its people through education, innovation, and the discovery and dissemination of new knowledge.

MISSION

Our mission is to serve as a leader in our disciplines in North Carolina, the nation, and the world. We seek to strengthen natural resource management, enhance environmental quality and conservation values, increase the sustainable yield of forestland goods and services, increase the value and competitiveness of the forest products and natural resource-based industries, expand recreation and tourism opportunities, and enhance the health and well-being of our citizens through superior professional education, innovative scientific research, and dissemination of credible and timely information.

VALUES

• Academic excellence in all of its forms the scholarships of discovery, teaching, information transfer and scientific integration
• Both cutting-edge research in fundamental science and translational research to address practical problems in North Carolina, the United States and the world
• Diversity of disciplines, people, places and ideas
• Our students, staff and faculty and our commitment to nurturing all
• We admire academic and scientific rigor and dedication
• We seek innovative and creative solutions to today’s problems
• We strive for collegiality and appreciate friendly service

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QUICK FACTS

Founded
1929

Current Enrollment
1,800

Faculty & Staff
200

3 Departments
Forest Biomaterials
Forestry & Environmental Resources
Parks, Recreation & Tourism Management

6 Offices
Academic Affairs
Business
Communications
Community for Diversity
Development & Foundation
Research Administration

Living Alumni
8,000+

Degree Programs
10 Bachelor
29 Master & Doctoral
4 Distance Education

Research
225 sponsored projects
Tradition + Transformation

Celebrate the past. Create the future.

North Carolina State University was founded in 1887 to fulfill the land-grant university mission: opening the doors of higher education to the citizens of North Carolina. Since then, NC State has grown into one of the nation’s top research institutions, becoming an engine for educational innovation and economic growth. Throughout 125 years of groundbreaking work in fields ranging from engineering to economics, soil science to social work, we’ve not only changed lives; we’ve transformed the world.

In recognition of NC State University’s 125th birthday, alumnus Tom Cabaniss has agreed to give a gift of $125,000 to NC State if 1,000 more alumni donors give than last year. Your gift could get us to goal!

Take the 125th Challenge

Participate in the 125 Challenge by giving a gift you choose the amount to the college, program or fund that means the most to you.

Support YOUR College of Natural Resources at go.ncsu.edu/supportcnr