College of Natural Resources

State of the College and Agenda for AY 2016-17

Mary C. Watzin, Dean
August 19, 2016
2016 Was a BIG Hiring Year!

New College Faculty and Staff
Dean’s Office

- **Felicia Nolan** – Senior HR Specialist
- **Christine Epps** – Post-Award Accountant
- **Lenise Sellars** – Pre-Award Manager
- **Irma Rose** – Admin. Assistant, Research (September)
- **Katie Bennett** – Student Recruiter
- **Brittany Sweeney** – Marketing Specialist
- **Christina Boodee** – Social Media Specialist
- **Sam Cook** – Executive Director of Forest Assets
- **John Sanders** – Hofmann Forest Manager
Forestry & Environmental Resources

- Jodi Forrester – Assistant Professor
- Rachel Cook – Assistant Professor
- Caren Cooper – Research Associate Professor, Natural Sciences Museum, Public Science Cluster
- Mathusudan Katti – Associate Professor, Public Science Cluster
- Marcelo Ardon-Sayao – Assistant Professor
- Joshua Gray – Assistant Professor
- Katherine Martin – Assistant Professor
- Krishna Pacifici – Assistant Professor
- Nepal Prakash – Research Assistant Professor
Forestry & Environmental Resources

- **Dillon Dunn** – Vehicle Pool and Field Equipment Supervisor
- **Jonathan Furst** - Research Assistant
- **Daniel Genung** - Tree Improvement Analyst
- **Alexandra Mash** – University Program Associate
- **Robert Thomas** – Research Technician
- **Theodore Jass** - Research Assistant
- **Megan Skrip** – Science Communicator (CGA)
Environmental Sciences

- **Erin Champion**, Environmental Sciences Coordinator
- **Greg Wilson**, Academic Advisor
- **Bill Winner**, Professor
Forest Biomaterials

- **Marko Hakovirta** – Department Head
- **Yuan Yao** – Assistant Professor
- **Leena Kathuria** – Accounting Technician
- **Cullen Alexander** – Coordinator, Pilot Plant
- **Runkun Sun** – Research Associate
- **Paula Harrod** – Administrative Support Specialist
- **Shelley Barry** – Process Editor
- **Cheryl Gill** – Administrative Support Specialist
- **Elisha Peck** – Peer Review Editor
- **Dhanalekshmi Savithri** – Receiving Editor
Parks, Recreation and Tourism Management

- **Bethany Cutts** – Assistant Professor
- **Whitney Knollenberg** – Assistant Professor
- **Jelena Vukomanovic** – Assistant Professor
- **Kathryn Stevenson** – Assistant Professor
- **Lincoln Larson** – Assistant Professor (January 2017)
- **Kristen Rice-Gira** – Administrative Support Specialist
Space – Improvements

• First Floor Biltmore Research Lab and Graduate Student Office completed!
Administrative Reviews

• Center for Geospatial Analytics – 5-year review completed
• IRPF Center – 5-year review completed
• Adrianna Kirkman – 5-year review completed
• Thomas Easley – 5-year review completed
• Up this year: Bob Bardon
New this Year

• Environmental Science BS degree program
• Environmental First Year Program approved by Provost; pilot fall 2017, full launch in 2018
• College recruiting – new staff, focus and reach
• PhD in Geospatial Analytics – awaiting final UNC-GA approval, first class fall 2017
• PSE – ABET accreditation this year
• PRTM - COAPRT accreditation this year
College Recognitions

• College of Natural Resources ranked #7 on USA TODAY list of the 10 Best Colleges for Studying Natural Resources and Conservation.

• Fisheries, Wildlife and Conservation Biology ranked #2 in the country for research productivity by the multidisciplinary journal PLOS ONE.

• Masters of Parks, Recreation, Tourism, and Sport Management ranked #2 among top 25 Schools for Online Sports Management by the website Top Management Degrees.

• Master of Geospatial Information Science and Technology is the first Professional Science Masters-affiliated GIS program in the country, as designated by the PSM National Office.
Status and Health of CNR

- Incoming Class of Students
- Characteristics of New Student Population
- Numbers of Students Enrolled (and trends across programs)
- Base Budget of the College
- Grant and Gift Funding Received
## Undergraduate Admissions

<table>
<thead>
<tr>
<th></th>
<th>First year*</th>
<th>Transfer</th>
<th>All Students*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrolled</td>
<td>198</td>
<td>114</td>
<td>1530</td>
</tr>
<tr>
<td>% Female</td>
<td>47%</td>
<td>31%</td>
<td>35%</td>
</tr>
<tr>
<td>% Non-white</td>
<td>21%</td>
<td>15%</td>
<td>19%</td>
</tr>
<tr>
<td>% Out-of-state</td>
<td>16%</td>
<td>10%</td>
<td>13%</td>
</tr>
<tr>
<td>% International</td>
<td>1%</td>
<td>&lt;1%</td>
<td>1%</td>
</tr>
</tbody>
</table>

*Including PSE students.*
# Undergraduate Admissions

<table>
<thead>
<tr>
<th></th>
<th>CNR</th>
<th>NC State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average High School GPA</td>
<td>4.34</td>
<td>4.52</td>
</tr>
<tr>
<td>Average SAT</td>
<td>1183</td>
<td>1248</td>
</tr>
<tr>
<td>Average ACT</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>Average Transfer GPA</td>
<td>3.26</td>
<td>3.42</td>
</tr>
</tbody>
</table>
*Enrollment Data as of 8/10/16 (Official data will be available after Census Day)
Graduate Student Admissions

New in Fall 2016 – 54 MS/MR, 13 PhD students

<table>
<thead>
<tr>
<th></th>
<th>MS/MR</th>
<th>PhD</th>
<th>All Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrolled</td>
<td>262</td>
<td>90</td>
<td>352</td>
</tr>
<tr>
<td>% Female</td>
<td>47%</td>
<td>39%</td>
<td>45%</td>
</tr>
<tr>
<td>% Non-white</td>
<td>15%</td>
<td>42%</td>
<td>22%</td>
</tr>
<tr>
<td>% Out-of-state</td>
<td>24%</td>
<td>1%</td>
<td>18%</td>
</tr>
<tr>
<td>% International</td>
<td>4%</td>
<td>42%</td>
<td>14%</td>
</tr>
</tbody>
</table>
Graduate Student Enrollments

*Enrollment Data as of 8/10/16 (Official data will be available after Census Day)
## CNR Budget – Expenditures FY16

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>Dean</th>
<th>PRTM</th>
<th>FB</th>
<th>FER</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Research</td>
<td>146,755</td>
<td>50,310</td>
<td>598,505</td>
<td>1,016,043</td>
<td>1,811,613</td>
</tr>
<tr>
<td>Cooperative Extension</td>
<td>12,459</td>
<td>162,986</td>
<td>436,177</td>
<td>809,697</td>
<td>1,421,319</td>
</tr>
<tr>
<td>McIntire-Stennis*</td>
<td>255,014</td>
<td>183,982</td>
<td>305,690</td>
<td>518,760</td>
<td>1,263,446</td>
</tr>
<tr>
<td>Contracts &amp; Grants</td>
<td>784,192</td>
<td>933,610</td>
<td>2,343,337</td>
<td>5,964,657</td>
<td>10,025,796</td>
</tr>
<tr>
<td>F&amp;A Receipts**</td>
<td>208,682</td>
<td>132,676</td>
<td>46,468</td>
<td>297,216</td>
<td>685,042</td>
</tr>
<tr>
<td>Foundations***</td>
<td>1,575,508</td>
<td>544,680</td>
<td>1,633,529</td>
<td>1,118,724</td>
<td>4,872,441</td>
</tr>
<tr>
<td>Gifts (Ledger 7)</td>
<td>43,722</td>
<td>6,708</td>
<td>694,136</td>
<td>1,743,060</td>
<td>2,487,626</td>
</tr>
<tr>
<td>Other</td>
<td>310,550</td>
<td>259,938</td>
<td>390,166</td>
<td>717,467</td>
<td>1,678,121</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>6,776,917</td>
<td>5,512,339</td>
<td>8,584,849</td>
<td>17,105,068</td>
<td>37,979,173</td>
</tr>
</tbody>
</table>

*Actual expenditures for Federal FY15
**Includes Provost commitments given as F&A dollars
***Foundations expenditures do not include HF operating expenditures
Budget Changes FY15 to FY16

Our budget is stable – about 2% change from last year.

*** over the last 3 years, almost $800K in legal fees and other expenses. . .

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>FY16 Total</th>
<th>Difference from FY15</th>
</tr>
</thead>
<tbody>
<tr>
<td>State App. Academic</td>
<td>13,733,769</td>
<td>1,316,997</td>
</tr>
<tr>
<td>Agricultural Research</td>
<td>1,811,613</td>
<td>(2,144)</td>
</tr>
<tr>
<td>Cooperative Extension</td>
<td>1,421,319</td>
<td>(34,119)</td>
</tr>
<tr>
<td>McIntire-Stennis</td>
<td>1,263,446</td>
<td>167,095</td>
</tr>
<tr>
<td>Contracts &amp; Grants</td>
<td>10,025,796</td>
<td>(1,141,113)</td>
</tr>
<tr>
<td>F&amp;A Receipts</td>
<td>685,042</td>
<td>(79,784)</td>
</tr>
<tr>
<td>Foundations***</td>
<td>4,872,441</td>
<td>891,373</td>
</tr>
<tr>
<td>Gifts (Ledger 7)</td>
<td>2,487,626</td>
<td>52,038</td>
</tr>
<tr>
<td>Other</td>
<td>1,678,121</td>
<td>(248,975)</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>37,979,173</strong></td>
<td><strong>921,368</strong></td>
</tr>
</tbody>
</table>
College Budget Outlook for FY17

• State appropriated budget includes a small decrease.
  • Will absorb most in Dean’s Office

• Across the board 1.5% raises, and 0.5% one-time bonus.

• Small merit pools for both SHRA and EHRA, awaiting instructions.
College Sponsored Projects

• 247 awards, $10.9 million in FY16 (up from 200 awards, $9.9 million in FY15)

• College Portfolio
  • 195 Active Projects (210 last year)
  • Total Value = $43.7 M ($51.3M last year)

• Federal (74%), Industry (18%), State (4%), other including non-profits, foreign governments.

• Research, training grants, extension projects, memberships (consortia contributions)
Funding in New Areas

• Elizabeth Nichols and colleagues received one of ten USDA NIFA Water for Agriculture Challenge Area grants.

• Aaron Hipp, was awarded the College’s first NIH grant.

• Myron Floyd is part of a multidisciplinary, multi-institutional team awarded a Robert Wood Johnson Foundation grant to establish the Physical Activity Research Center (PARC).
Grant $$ Per T/TT Faculty Member

Without TSA’s

- COE
- CALS
- COS
- CNR
- COED
- COT
- CVM
- COD
- CHASS
- PCOM
Extension Accomplishments

• Eric McConnell *et al.* completed “An Economic and Environmental Analysis of the U.S. Bio-based Products Industry” for USDA (with PCOM and Duke).

• Duarte Morais and colleagues launched People-First Tourism Inc. (P1T).

• 33 Counties in Eastern NC were designated “Sentinel Landscapes” and are now eligible for funding for programs supporting conservation and military readiness, due to the hard work of Bob Bardon and colleagues.
College Advancement Office

• Fundraising Total for FY16 = $2.4 Million
• New Capital Campaign kicks off in October 2016
• Communications Successes: >90 national and international news articles featured College faculty, staff and students
Hofmann Forest

• Success in our new plan for the Forest!
Our Goals for Hofmann Forest

• Optimize financial returns for the College of Natural Resources

• Use the forest for teaching and research

• Demonstrate best practices for sustainable working forest management and conservation of valuable natural habitats and biodiversity

• Continue to contribute to economic prosperity in eastern NC, including being a good partner to the military and surrounding community
Central Element of our Strategy

Hofmann Forest Timber Deed:

- 50-year deed with Resource Management Service LLC (RMS)
- $78 million
Hofmann Forest Timber Deed

• 50-year deed, $78 million
• RMS has right to manage, harvest, replant timber in deeded plantations, and to lease the property for hunting and other recreational purposes across the forest
• EF/NR Foundation retains all other rights, including right to access the property for research and educational purposes
• RMS is responsible for maintaining all infrastructure
• EF/NR Foundation has the right to repurchase up to 8,550 acres over time and has the first right of offer in the event of a sale of the timber deed

Funds invested in EF over next year; projected to yield a steady annual income of $3 million/year
Other Elements of our Strategy

For the Pocosin and other Unique Habitats

• Conservation easements
• Explore potential for mitigation, habitat restoration, carbon credits

Explore Other Opportunities:

• Military easements
• Solar energy development
• Water, watershed protection credits
• Limited commercial development along Highway 17
• Limited residential development as Jacksonville grows
Strategic Plan Update

Achieving Excellence in Three Interdisciplinary Themes

1. Enhance Student Success Through Educational Innovation
2. Enhance Disciplinary and Interdisciplinary Research and Scholarship
3. Cultivate Excellence and Enhance Diversity among Faculty, Staff and Students
4. Strengthen and Enhance Infrastructural Support and Organizational Excellence
5. Expand and Foster Local and Global Partnerships that Create Positive Change and Contribute to Sustainability
Strategic Plan – Next Steps

Achieving Excellence in Three Interdisciplinary Themes

– Research and Education

Leadership in areas of core strength

– Strategic niche, goals in each department

Building partnerships

– Raleigh, Dix Park
– Key global relationships
NC State University Campaign
Raise at least $1.5 billion for key university priorities
Some College Critical Needs

**Student Support**

- Fellowships for Graduate Students
- High Impact Student Experiences
  - Internship to Career Student Support
  - Undergraduate Research Fund
  - Study Abroad

**Faculty Support**

- Endowed Faculty Positions
- Start-up Package Fund
Some College Critical Needs

**Program Support**
- Natural Resources Speaker Series
- Land and Water Institute
- Sustainability Partnerships Center
- Natural Resources Innovation Fund

**Capital Support**
- Biltmore Hall renovation
- Hill Forest – lodge and upgrades
- Schenck Forest – Outdoor Education Center
- A new building
RED & WHITE WEEK
October 23 - 29, 2016
Homecoming

Launch the Campaign
• Activities for Faculty, Staff, Alumni, Donors, Friends
• Announce Campaign Theme, Financial Goals and Priorities

Stay tuned for more details!
Other Goals for the Year

Graduate Education – Opportunities for Excellence

• Strategic Recruitment Plan – Marketing to draw the best
  – Workshop on Best Practices in Graduate Recruitment
    Sept 8, 9-11 am, Hunt Library, Duke Energy Hall

• Funding our students – new sources and partnerships

• Showcasing what we do – Graduate Student Research Symposium

• College-wide committee – how can we be more competitive? – stipends, recruiting, increasing funding; a data-driven conversation
Other Goals for the Year

Diversity and Inclusion – A comprehensive approach

- A continuous pipeline
- Cultural competency and personal growth
- A culture of inclusion and support
- Diversity in the curriculum - different ways of knowing and problem solving
Other Goals for the Year

Diversity and Inclusion – A role for everyone

1. Community for Diversity programs:
   • Aug 26, 2016 – Women’s Equity Day Luncheon
   • Sept 7, 7-8:30 pm – First Generation Student Connection
   • Watch for more

2. Mentoring – Neighborhood Ecology Program

3. CNR Women in Science Discussion Group – Wednesdays, 12-1 pm in Jordan 5119

4. October 21, 12-4 pm – Celebration of Diversity, Dr. Christine Pribbenow, Fair Play Workshop
Century of Parks Celebration

A semester-long celebration of the National Park Service’s 100th birthday and the 100th anniversary of NC’s first state park

A Larry Nielsen Production

• Birthday on the Brickyard
• Thursday, August 25, 11am – 2pm
• Free cake and drinks, activities, exhibits
Wolfpack Citizen Science Challenge

Take a Walk on the Wild Side of the Campus

A Roland Kays – Karen Ciccone Production

- Fall semester
- Student teams use camera traps to investigate biodiversity on the campus

http://www.lib.ncsu.edu/wolfpack-citizen-science-challenge
This Is Our Time

- The need for natural resource professionals has never been greater
  - Educating students for the jobs of today, and the needs of tomorrow
- Inspiring a different vision of what the world can be
  - Research that matters – solutions in areas of critical need
- Outreach – taking our work to the world
This Is Our Time

• Honoring our Heritage
  – Extraordinary work – the best in our disciplines

• Creating the College of the future
  – Preeminent at NC State – and a model for the country

• We have the talent – the future is in our hands
Seize the Moment
Make Good Things Happen