21 November, 2007

Prof. David E. Shipley, Chair
University Curriculum Committee

Dear Professor Shipley,

The Daniel B. Warnell School of Forestry and Natural Resources wishes to submit the attached proposal for a new non-thesis Master of Natural Resources (MNR) degree. The addition of the MNR degree to our present masters-level degree offerings (Master of Science, Master of Forest Resources) will allow us to serve a growing number of students interested in pursuing a non-thesis degree in natural resource disciplines other than forestry. Our non-thesis Master of Forest Resources (MFR) degree was instituted in 1950 specifically to train graduate-level professional foresters, and our MFR graduates are recognized as such by our employers. However, Warnell’s academic programs and students have diversified considerably over the past 57 years, and we find ourselves unable to appropriately serve a growing pool of students and employers in areas outside traditional forestry. The addition on the MNR will allow us offer these constituents a degree that is more appropriate in both name and substance, and we look forward to implementing this new program. The new MNR degree will not require any new personnel or facilities, and we can begin offering it as soon as the proposal reaches the final approval stage.

Thank you for your assistance, and do not hesitate to contact us if we can provide you with any additional information.

Sincerely,

Michael Clutter
Hargreaves Professor and Dean

Ronald Hendrick, Professor
Associate Dean for Academic Affairs

The University of Georgia
Daniel B. Warnell School of Forestry and Natural Resources
Forestry, Wildlife, Water and Soil Resources, Fisheries and Aquaculture,
Natural Resource Recreation and Tourism

Athens, Georgia 30602-2152
Telephone (706) 542-2886 • Fax (706) 542-8356
An Equal Opportunity/Affirmative Action Institution
November 12, 2007

We have read and support the new non-thesis Masters of Natural Resources Degree developed by the Warnell School of Forestry and Natural Resources.

[Signature]

Louie A. Castenell, Jr.
Dean
College of Education
The University of Georgia
November 12, 2007

We have read and support the new non-thesis Masters of Natural Resources Degree developed by the Warnell School of Forestry and Natural Resources.

[Signature]
J. Scott Angle
Dean
College of Agricultural & Environmental Sciences
The University of Georgia

Date
12 Nov 07
November 12, 2007

We have read and support the new non-thesis Masters of Natural Resources Degree developed by the Warnell School of Forestry and Natural Resources.

John Gittleman
Dean
School of Ecology
The University of Georgia
The University System of Georgia
New Program Proposal

Date: 17 October, 2007
Institution: The University of Georgia
School: D.B. Warnell School of Forestry and Natural Resources
Department: N/A
Name of Proposed Program: N/A
Degree: Master of Natural Resources (Non-thesis)
Starting Date: Fall, 2008

Program Description and Objectives

The University of Georgia’s Daniel B. Warnell School of Forestry and Natural Resources (Warnell) was founded in 1906, and is the oldest accredited forestry school in the South. Warnell’s stated mission is to prepare leaders in the conservation and sustainable management of forests and other natural resources, to discover ways to restore and better use the earth’s natural resources, and to put into practice forestry and natural resources knowledge.

Adding the new Master of Natural Resources (MNR) program will support Warnell’s mission and expand the scope of our graduate program. Students entering the MNR program will have the opportunity to study in subject areas such as fisheries biology and management, wildlife biology and management, natural resources recreation and tourism, and natural resources/conservation interpretation and education. This non-thesis program will meet the educational needs of students pursuing a non-thesis Master’s level degree in these areas better than Warnell’s existing non-thesis Master of Forest Resources (MFR) degree program, which was implemented in 1950 to serve students studying forest management, economics, policy and forest business.

The MNR degree will provide post-graduate learning experiences for students who desire a career working in the area of natural history interpretation, extension and outreach, development of natural resource instructional materials, natural resources ecology and biology, and other capacities that require skills and abilities in the area of natural resource biology, management and/or education.

Specifically, the objectives of the Master of Natural Resources degree are to:

1. Provide a non-thesis graduate degree option that attracts a diversity of students interested in areas of concentration other than forest management, policy, economics, and forest business;
2. Produce MNR graduates who possess effective communication skills, technical knowledge and understanding of ecological principles, and the capacity to apply critical thinking and problem-solving skills;
3. Enable MNR graduates to critically assess and apply various environmental interpretation and educational skills, tools, and knowledge most pertinent to specific audiences with whom they are working;
4. Utilize existing courses taught within Warnell to provide the foundation of learning for the MNR degree; and
5. By moving non-forestry students to the MNR degree, provide an opportunity to seek professional accreditation for the existing MFR degree to further strengthen it.

Justification and Need for the Program

The intensity and variety of social, economic, and environmental demands that humans place on natural resources have grown along with human population size and diversity. These changes are especially true in the southeastern United States, where there has been dramatic development and population growth in the past 20 years. The wide array of values and needs that people place on natural resources has led to conflicts over resource use and allocation, including water supply, use, and access; the provision and expansion of recreational opportunities on both private and public lands; and the loss of wildlife habitat and “green space” due to urbanization.

One solution to abate conflicts arising from the human/natural resource interaction is to generate a community of resource professionals who can effect change and educate the public through the application and dissemination of sound scientific knowledge using effective communication and management skills. Prepared to work in the private, public, or not-for-profit sectors, these professionals must have the capacity to understand complex biological, social, and/or economic problems; work effectively within the public and private domains for solutions; and educate affected or interested parties. Warnell has long trained forestry professionals to accomplish these tasks in the forestry sector through our MFR program. However, there are unmet needs pertaining to wildlife, fisheries, conservation education, recreation, water resources, etc., for which we have the ability to train students, but for whom we do not offer an appropriate degree.

The demand for such a graduate program within Warnell is growing. For example, during the fall of 2004, five of the fifteen MFR students enrolled in our graduate program studied in areas other than forestry, principally in wildlife biology or conservation education. By the fall of 2006, almost half (nine of twenty) Warnell’s MFR students were studying in areas that the MFR was never intended to serve, including wildlife biology, conservation education, and natural resources recreation and tourism. These students do not fit within, and are not especially well-served by, an MFR program established to produce professionally educated foresters equipped to work primarily in the private forest management and business sectors. Historically, the MFR degree has been understood by our employers and other constituents to be a forestry-specific degree and they expect MFR graduates to be able to sit for the State of Georgia (or other state’s) Registered Forester exam. The expansion of our MFR program to include students from other majors has confused matters, such that employers no longer have any assurance that MFR graduates are competent professional foresters. These non-thesis master’s students from other majors are not academically qualified to sit, nor are they typically interested in sitting, for the State of Georgia Registered Forester exam. The inclusion of non-foresters in the MFR Degree Program also precludes us from seeking accreditation for the degree from the Society of American Foresters (SAF). Once we have established the MNR degree, we will seek accreditation from SAF for the MFR. We expect enrollment to increase to approximately 20-24 students once we are able to advertise the MFR as an accredited program. Almost half of all commercial timberland in the U.S. is now managed by investment firms or real estate investment
trusts, and we believe that our accredited MFR degree will be especially attractive to those students coming from business, real estate, or finance undergraduate programs with an interest in forest business. Indeed, attracting more of these students into our program is part of Warnell’s strategic plan and central to the continued growth and success of our Center for Forest Business.

Thus, the addition of the MNR degree serves two critical needs – (1) providing non-forestry students a more suitable and appropriate venue for their educational needs while conferring upon them a degree more reflective of their area of study; and (2) clarifying and strengthening the well-known MFR program that has long served the professional forestry community and earned a distinguished reputation, particularly for its forest business majors. Employers of both our traditional MFR graduates and of the students for whom the MNR is designed strongly support this effort (see Appendix A). Creating the proposed MNR degree will further expand Warnell’s capacity to serve the needs of our students and employers, while meeting the present and future needs of Georgia and its citizens.

Procedures Used to Develop the Program

In April of 2006, Warnell’s name was changed from the Daniel B. Warnell School of Forest Resources to the Daniel B. Warnell School of Forestry and Natural Resources to more accurately reflect the broad disciplinary areas of our educational, research, and service programs. The name change, along with the rapidly growing number of non-forestry students enrolled in our MFR program, prompted discussions among Warnell administrators and faculty about restructuring our non-thesis graduate degree offerings. Our goals were to 1) better serve the growing population of non-forestry MFR students, 2) offer a degree that was more inclusive of non-forestry areas of study in both substance and name, and 3) preserve a common understanding of the scope of the MFR degree and the qualifications of degree holder among students, faculty, and employers. On May 11, 2007, the Warnell faculty unanimously recommended that a formal proposal for the MNR degree be developed to provide a unique non-thesis degree program for students interested in subject areas not offered under the MFR.

Curriculum

Advisory Committee: All MNR students will be required to form an advisory committee consisting of no fewer than three faculty members before the end of their first enrolled semester. At least one committee member must be from an area outside the student’s area of study (either within or external to Warnell) and at least two members of the committee must be members of the University of Georgia Graduate Faculty.

Degree Requirements: The MNR degree will require a minimum of 33 hours of graduate course work. Of the 33 hours required, at least 12 credit hours must be earned in courses offered by Warnell in one of its program areas (denoted by the course prefixes FANR, FISH, FORS, NRRT, WASR or WILD). No more than 3 credit hours of problems courses or 2 credit hours of seminar courses may be counted towards the 12 credit hours required from within Warnell. At least 6 credit hours must be earned in University of Georgia graduate courses offered outside of Warnell. No graduate student will be allowed to earn more than 3 credit hours for problems courses taken under the same professor or instructor. Students may not receive graduate credit
for 4xxx/6xxx or 5xxx/7xxx courses in which they previously earned undergraduate credit. With the exception of problems courses offered within Warnell, students may not earn credit for cross-listed courses previously taken under a different course prefix. Applied Research in Forest Resources (FORS 9210) will be recommended for this degree, but will be optional at the discretion of the Advisory Committee. An approved Program of Study must be submitted to the Warnell Graduate Program Office no later than the end of the student’s first enrolled semester.

Subject to the conditions specified above, MNR students will be eligible to take all graduate-level courses offered within Warnell with the exception of courses exclusively open to doctoral (PHD) or Master of Science (MS) students. A list of eligible courses offered within Warnell is attached (see Appendix B). MNR students are also eligible to take graduate-level courses in other departments as approved by their advisory committee. At the discretion of the advisory committee, MNR students may also take non-graduate courses in natural resource ecology or management or other subject matter areas in order to remove deficiencies in pre-MNR coursework, but these course credit hours may not be counted toward any of the 33 credit hours required for the degree. A sample Program of Study is attached in Appendix C.

There is no thesis component to the degree, but all MNR students will be required to pass a final oral exam after completing their coursework. The scope of the exam may include material related to all coursework appearing on the student’s Program of Study, other coursework taken at the request of the advisory committee, and any other special projects or formal learning experiences completed during the student’s MNR program.

Learning Outcomes: Although students enrolled in the Warnell MNR program will receive specialized training in one of many possible core concentrations (e.g. wildlife biology, fisheries biology, natural resources recreation and tourism, conservation education, soil and water conservation, etc.), we have defined a common set of expected learning outcomes for all students. Graduates from the MNR program will be able to:

- Apply their understanding of biological processes and natural resource management to analyze and quantify problems and think critically to develop solutions to issues associated with sustainable use and management of forests, wildlife, fisheries, soil, and water resources.
- Effectively communicate natural resource management principles and practices in written and oral form to technical and general audiences using appropriate forms of media.
- Select and use appropriate information (e.g., database, listserv, etc.) and instructional technologies (e.g., distance education, presentation software, etc.) to manage data, deliver succinct oral presentations, and prepare technical reports.
- Explain the economic and ecological impacts of human land-use policies and practices on natural resources.

Inventory of Faculty Involved

Numerous Warnell faculty, most of whom do not participate in our MFR program, have expressed a desire to advise MNR students. Curriculum Vitae’s of interested faculty are attached in Appendix D. Since there are no new courses required to implement the MNR degree, the
impact on faculty teaching loads (see Table 1) will consist solely of managing additional students in the classroom. There will, of course, be a time commitment associated with advising MNR students, just as there is with students enrolled in any other graduate degree program.
Table 1. Instruction responsibilities of Warnell faculty participating in proposed Master of Natural Resources degree program.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Section Prefix</th>
<th>Course Number</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beck, Bruce</td>
<td>FORS</td>
<td>8150</td>
<td>System Identification for the Environmental Scientist</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8160</td>
<td>Environmental Process Control Laboratory</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8170</td>
<td>Environmental Systems Analysis and Control</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9990</td>
<td>Supervised Professional Practicum in Forest Resources</td>
</tr>
<tr>
<td>Carroll,</td>
<td>FORS</td>
<td>2100</td>
<td>International Issues in Natural Resources and Conservation</td>
</tr>
<tr>
<td>John P.</td>
<td>FORS</td>
<td>3000-3000L</td>
<td>Field Orientation, Measurements, and Sampling in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4750</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5250/7250</td>
<td>International Issues in Wildlife Conservation</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5330/7330-</td>
<td>Wildlife Management in Agricultural Ecosystems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5770/7770-</td>
<td>Applied Population Dynamics</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7984</td>
<td>Wildlife Ecology and Management Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8984</td>
<td>Wildlife Ecology and Management Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8290</td>
<td>Wildlife Telemetry</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9990</td>
<td>Supervised Professional Practicum in Forest Resources</td>
</tr>
<tr>
<td>Green,</td>
<td>FRES</td>
<td>1020</td>
<td>Freshman Seminar</td>
</tr>
<tr>
<td>Gary</td>
<td>FORS</td>
<td>3810-3810D</td>
<td>Society and Natural Resources</td>
</tr>
<tr>
<td></td>
<td>RLST</td>
<td>4000</td>
<td>Special Problems in Recreation and Leisure Studies</td>
</tr>
<tr>
<td></td>
<td>FORS(AAEC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ANTH)(ECOL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(GEOG)(INTL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(RLST)</td>
<td>4271/6271</td>
<td>Field Studies in Natural Resources</td>
</tr>
<tr>
<td>Instructor</td>
<td>Section Prefix</td>
<td>Course Number</td>
<td>Course Name</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------</td>
<td>---------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4750</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS(RLST)</td>
<td>5410/7410</td>
<td>Wilderness Management</td>
</tr>
<tr>
<td>RLST</td>
<td></td>
<td>5700</td>
<td>Internship in Recreation and Leisure Services</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5920</td>
<td>Directed Readings or Projects in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5930</td>
<td>Special Topics in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS(RLST)</td>
<td>5410/7410</td>
<td>Wilderness Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7982</td>
<td>Forestry Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7985</td>
<td>Natural Resource Recreation and Tourism Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8300</td>
<td>Wildlife and Fisheries Seminar</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9210</td>
<td>Applied Research in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9990</td>
<td>Supervised Professional Practicum in Forest Resources</td>
</tr>
<tr>
<td>Hepinstall, J. A.</td>
<td>FORS</td>
<td>3910-3910L</td>
<td>Spatial Analysis of Natural Resources</td>
</tr>
<tr>
<td></td>
<td>FORS(ECOL)</td>
<td>8330</td>
<td>Landscape Ecology</td>
</tr>
<tr>
<td>Markewitz, Daniel</td>
<td>FORS</td>
<td>3020-3020L</td>
<td>Ecology of Natural Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7870</td>
<td>The Science of Sustainability</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7982</td>
<td>Forestry Problems</td>
</tr>
<tr>
<td>Mengak, Michael.</td>
<td>FORS(MARS)</td>
<td>1100</td>
<td>Natural Resources Conservation</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4340/6340</td>
<td>Nongame and Endangered Species Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4900/6900-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4900L/6900L</td>
<td>Wildlife Damage Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4930/6930</td>
<td>Wildlife Ecology and Management for Teachers</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5930</td>
<td>Special Topics in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7984</td>
<td>Wildlife Ecology and Management Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8300</td>
<td>Wildlife and Fisheries Seminar</td>
</tr>
<tr>
<td>Instructor</td>
<td>Section Prefix</td>
<td>Course Number</td>
<td>Course Name</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------</td>
<td>---------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Miller, Karl</td>
<td>FORS</td>
<td>4300/6300-</td>
<td>Management of Wildlife Habitat</td>
</tr>
<tr>
<td></td>
<td>4300L/6300L</td>
<td></td>
<td>Senior Project in Forest Resources Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4730</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4750</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8300</td>
<td>Wildlife and Fisheries Seminar</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9990</td>
<td>Supervised Professional Practicum in Forest Resources</td>
</tr>
<tr>
<td>Moore, Rebecca</td>
<td>FORS</td>
<td>3710-3710D</td>
<td>Economics of Renewable Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5680/7680</td>
<td>Economic Perspectives on Natural Resource Issues</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7350</td>
<td>Social Science Research Methods in Natural Resources</td>
</tr>
<tr>
<td></td>
<td>FORS(AAEC)</td>
<td>7860</td>
<td>Resource Economics and Management</td>
</tr>
<tr>
<td>Peterson, Douglas</td>
<td>FORS(ECOL)</td>
<td>4360/6360</td>
<td>Fish Ecology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5360/7360-</td>
<td>Field Methods in Hydrology</td>
</tr>
<tr>
<td></td>
<td>5360L/7360L</td>
<td>Fisheries Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5920</td>
<td>Directed Readings or Projects in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7981</td>
<td>Fisheries and Aquaculture Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8984</td>
<td>Wildlife Ecology and Management Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>9210</td>
<td>Applied Research in Forest Resources</td>
</tr>
<tr>
<td>Rasmussen, Todd</td>
<td>CRSS(FORS)</td>
<td>1020</td>
<td>Introduction to Water Resources</td>
</tr>
<tr>
<td></td>
<td>CRSS(FORS)</td>
<td>3060-3060L</td>
<td>Soils and Hydrology</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4120/6120</td>
<td>Quantitative Methods in Hydrology</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4130/6130</td>
<td>Field Methods in Hydrology</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5920</td>
<td>Directed Readings or Projects in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>7983</td>
<td>Forest Soils, Hydrology and Environmental Systems Problems</td>
</tr>
<tr>
<td>Instructor</td>
<td>Section Prefix</td>
<td>Course Number</td>
<td>Course Name</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------</td>
<td>---------------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Schweitzer, Sara</td>
<td>FORS</td>
<td>4730</td>
<td>Senior Project in Forest Resources Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4750</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5310/7310-</td>
<td>Techniques in Wildlife Population Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5310L/7310L</td>
<td>Directed Readings or Projects in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>5920</td>
<td>Wildlife and Fisheries Seminar</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8300</td>
<td>Wildlife and Fisheries Seminar</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8350-8350L</td>
<td>Waterfowl and Wetland Management</td>
</tr>
<tr>
<td>Teskey, Robert</td>
<td>FORS</td>
<td>7982</td>
<td>Forestry Problems</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8000</td>
<td>Forest Resources Seminar</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8030</td>
<td>Advanced Tree Physiology</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8200</td>
<td>Scientific Research in Forestry and Natural Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>8982</td>
<td>Forestry Problems</td>
</tr>
<tr>
<td>Warren, Robert</td>
<td>FORS(MARS)</td>
<td>1100</td>
<td>Natural Resources Conservation</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>3300</td>
<td>Introduction to Fish and Wildlife Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>3810-3810D</td>
<td>Society and Natural Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4320/6320</td>
<td>Wildlife Physiology and Nutrition</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4730</td>
<td>Senior Project in Forest Resource Management</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4750</td>
<td>Senior Thesis in Forest Resources</td>
</tr>
<tr>
<td></td>
<td>FORS</td>
<td>4890/6890</td>
<td>Field Methods in Wildlife Management and Research</td>
</tr>
<tr>
<td>Instructor</td>
<td>Section Prefix</td>
<td>Course Number</td>
<td>Course Name</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------</td>
<td>---------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>FORS</td>
<td>5920</td>
<td>Directed Readings or Projects in Forest Resources</td>
<td></td>
</tr>
<tr>
<td>FORS</td>
<td>7984</td>
<td>Wildlife Ecology and Management Problems</td>
<td></td>
</tr>
<tr>
<td>FORS</td>
<td>7990</td>
<td>Supervised Professional Practicum in Forest Resources</td>
<td></td>
</tr>
<tr>
<td>Yabsley, Michael</td>
<td>FORS</td>
<td>5900</td>
<td>Wildlife Diseases (new course)</td>
</tr>
<tr>
<td>FORS</td>
<td>5930</td>
<td>Special Topics in Forest Resources</td>
<td></td>
</tr>
<tr>
<td>FORS</td>
<td>7984</td>
<td>Wildlife Ecology and Management Problems</td>
<td></td>
</tr>
</tbody>
</table>
Outstanding Programs at Other Institutions

A review of available information revealed nine universities offering a non-thesis Master’s degree (see Table 2) in the areas of natural resource ecology, management, or extension education. Eight of the nine programs listed are offered by SAF accredited schools, with the exception of New York University.

Table 2. Schools that offer a non-thesis Master’s-level degree with a concentration in the area of natural resources ecology, management, or extension education. This information was compiled by reviewing the list of SAF-accredited forestry schools and content published on each school’s website.

<table>
<thead>
<tr>
<th>School</th>
<th>Degree</th>
<th>Concentration</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duke</td>
<td>MEM</td>
<td>Conservation and Policy</td>
<td>48 credit hours</td>
</tr>
<tr>
<td>University of Idaho</td>
<td>MNR</td>
<td>Conservation Social Science</td>
<td>30 credit hours</td>
</tr>
<tr>
<td>New York University</td>
<td>M.S.</td>
<td>Environmental Conservation</td>
<td>30 credit hours</td>
</tr>
<tr>
<td>Oregon State University</td>
<td>M.S.</td>
<td>Conservation Education</td>
<td>45 credit hours</td>
</tr>
<tr>
<td>Virginia Tech</td>
<td>MNR</td>
<td>Natural Resources Education and Extension</td>
<td>33 credit hours</td>
</tr>
<tr>
<td>Colorado State University</td>
<td>MNRS</td>
<td>Forest Ecology</td>
<td>30 credit hours</td>
</tr>
<tr>
<td>Auburn University</td>
<td>MNR</td>
<td>Natural Resource Management (with B.S. in Biology)</td>
<td>36 credit hours</td>
</tr>
<tr>
<td>Yale</td>
<td>MEM</td>
<td>Teacher Preparation</td>
<td>A five-semester program</td>
</tr>
<tr>
<td>Ohio State University</td>
<td>M.S. (non-thesis)</td>
<td>Natural Resources: Education and communication</td>
<td>55 credit hours</td>
</tr>
</tbody>
</table>
Among the programs in Table 2, we believe that the following meet the criteria of “outstanding”:

1. Master of Natural Resources, Virginia Tech: Dr. David L. Trauger, Director of Natural Resources Programs, Falls Church, VA  22043, (703) 538-3762

   Credit Requirements: 33 total credit hours: 12 core credits, 15-18 credits in area of concentration, and capstone paper replaces the thesis and counts for 3-6 credits.

   Outstanding Feature: Capstone paper for credit

2. Master of Environmental Management, Duke University: Cindy Peters, Assistant Dean, Enrollment Services, Durham, NC  27708, (919) 613-8071

   Credit Requirements: Structured Program of Study requiring 48 total credit hours: Core (12 credits from combination of one overview course, two natural sciences, and one social sciences); Approaches/Tools (12 credits from combination of statistics, geospatial, community-based participatory, field ecology, and modeling); and Specializing Electives for system-specific expertise or additional tools (9 credits from combination of at least one natural science and one social science, and either a tool or core course that supports the student’s Master’s Project ); the remaining 15 hours are earned taking electives, seminar, internship, Symposium Presentation and the Master’s Project.

   Outstanding Feature: Guided structure to program of study; allows student and committee the freedom to select from a list of courses approved for Core, Approaches/Tools, and Specializing Electives.

3. Master of Natural Resources Stewardship, Colorado State University: Crystal Lancaster, Department Coordinator, Fort Collins, CO  80523, (970) 491-6911

   Credit Requirements: Six core specialties are offered and 30 credits required.

   Outstanding Feature: No independent study, research, internship, supervised college teaching, or practicum credits may be credited toward the degree.

Inventory of Library Resources

The University of Georgia libraries contain a large collection of resources necessary to support this new program. Our other graduate degree programs are well served by existing resources. Because the MNR degree will be an additional non-thesis degree option, rather than a degree in a new study area, these resources will similarly serve students in this program. Books, periodicals, journals, and professional publications are available at the Main Library (North Campus) and Science Library (South Campus). Other sources include the University System of Georgia searchable database via GALILEO.
Students

Based on the previous enrollment of non-foresters in our MFR degree, we know that the new MNR program will attract students who are interested in environmental education and interpretation, fisheries or wildlife biology, natural resource recreation and tourism, conservation policy and biology, natural resource extension and natural resource management. Students with a Bachelor’s degree in natural resources (forestry, wildlife, fisheries, recreation, soil and water conservation, etc.) will be the primary target audience. They will enter the MNR program with a basic professional-level of technical knowledge, and through their graduate educational experiences they will emerge with new understandings, problem solving strategies, and technical skills that allow them to excel as professionals in their respective fields of study. However, students may enter the program from non-natural resources professions or educational backgrounds, including elementary or secondary education, instructional technology and design, marketing and mass media, political science, agriculture, public policy and law and history. These students will be welcomed and encouraged to apply, but (as is true for all graduate students entering programs for which they have minimal training) they may need to complete coursework beyond the minimum 33 hours to develop a sufficient background in the technical aspects of natural resource management.

Facilities

Warnell has adequate classroom capacity to support graduate students who wish to earn the MNR degree. Field sites for experiential learning activities are also abundant and accessible, as Warnell owns or manages over 25,000 acres of forested lands within the state of Georgia. Warnell has two student computer laboratories with a total of 56 terminals available to both undergraduate and graduate students. There are an additional 8 terminals located in a graduate-only laboratory, and 25 terminals are located in our Geographic Information Systems (GIS) computer laboratory. All computer terminals except those in the GIS laboratory are available for use 24 hours/day.

Administration

The overall administration of the MNR degree will reside in the office of Warnell’s Associate Dean for Academic Affairs. The Warnell graduate coordinator and graduate program office staff will oversee the daily functioning of the MNR program, just as they do the MFR, MS, and PhD programs. Every student meeting the suggested minimum acceptance criteria established by the Graduate School will be eligible to enroll in the MNR program, contingent upon their identifying a willing major professor.

Assessment

All Warnell courses and course instructors are evaluated using a standardized set of question accessible to students either electronically or in paper form. In addition, the Warnell Graduate Student Association administers both written questionnaires and oral exit interviews to all graduate students before their final defense or exit exam that solicit student input on all aspects of their Warnell graduate experience (e.g., advising quality; financial support in the form of
stipends, research needs, travel to scientific for professional meetings; opportunities and support for scholarly development; amount and quality of support from the Warnell graduate, clerical, and fiscal offices). Results of these interviews are forwarded to both the Warnell Associate Dean for Academic Affairs and the Warnell Graduate Coordinator. The degree candidate shall demonstrate his or her mastery of relevant MNR learning outcomes to the satisfaction of the advisory committee at the final oral exam.

Affirmative Action Impact

We expect a strong interest in the program by underrepresented populations; four of the nine MFR students currently studying in non-forestry areas are female. The program will be open to all qualified persons regardless of race, color, religion, national origin, gender, age, sexual orientation, or disability status.

Degree Inscription

Upon successful completion of all requirements of the program, the degree inscription on the student’s diploma will read “Master of Natural Resources.”

Enrollment Impact - Fiscal and Budgetary

Warnell already possesses all of the fiscal, physical, and personnel resources necessary to implement the degree. We have 1.5 staff positions dedicated to the administration of our graduate program, along with a faculty graduate coordinator. The initial entering class is likely to consist primarily of MFR students opting for a change of degree status to MNR once the program is approved, and we anticipate adding a net of six additional students to the current pool by FY 2011 for a total of 15 by that date. Based upon historical trends in our MFR program, we believe that approximately one-fourth of the total population of MNR graduate students will graduate each semester. For purposes of estimating credit hour production and revenues in the following pages, we estimate that MNR students would take an average 8 graduate credit hours per semester (total 24 per year).
### Fiscal and Enrollment Impact, and Estimated Budget

#### ENROLLMENT PROJECTIONS

<table>
<thead>
<tr>
<th></th>
<th>FY2009 First Year</th>
<th>FY 2010 Second Year</th>
<th>FY 2011 Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Student majors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Shifted from other programs</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. New to institution (gross)</td>
<td>3</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL MAJORS</strong></td>
<td><strong>12</strong></td>
<td><strong>14</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>B. Course sections satisfying program requirements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Previously existing</td>
<td>120+</td>
<td>120+</td>
<td>120+</td>
</tr>
<tr>
<td>2. New</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL PROGRAM COURSE SECTIONS</strong></td>
<td><strong>120+</strong></td>
<td><strong>120+</strong></td>
<td><strong>120+</strong></td>
</tr>
<tr>
<td>C. Credit hours generated by those courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Existing enrollments</td>
<td>216</td>
<td>216</td>
<td>216</td>
</tr>
<tr>
<td>2. New enrollments</td>
<td>72</td>
<td>120</td>
<td>144</td>
</tr>
<tr>
<td><strong>TOTAL CREDIT HOURS</strong></td>
<td><strong>288</strong></td>
<td><strong>336</strong></td>
<td><strong>360</strong></td>
</tr>
<tr>
<td>D. Degrees awarded</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

#### II. COSTS

<table>
<thead>
<tr>
<th></th>
<th>EFT</th>
<th>Dollars</th>
<th>EFT</th>
<th>Dollars</th>
<th>EFT</th>
<th>Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Personnel--reassigned or existing positions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Faculty</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Part-time faculty</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Graduate assistant</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. Administrators</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Support staff</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6. Fringe benefits</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7. Other personnel costs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL EXISTING PERSONNEL COSTS</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td>B. Personnel--new positions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Faculty</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Part-time faculty</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Graduate assistant</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. Administrators</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Support staff</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6. Fringe benefits</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7. Other personnel costs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL NEW PERSONNEL COSTS</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>
### C. Start-up costs (one-time expenses)

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Library/learning resources</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Equipment</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Other (information/recruitment materials)</td>
<td>2000</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### D. Physical facilities: construction or

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major renovation</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**TOTAL ONE-TIME COSTS**

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### E. Operating costs (recurring costs--base budget)

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Supplies/expenses (promotional)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Travel</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Equipment</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. Library/learning resources</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Other (________)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**TOTAL RECURRING COSTS**

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**GRAND TOTAL COSTS**

|                        | 2,000      | 0           | 0          |

### III. REVENUE SOURCES

#### A. Source of funds

<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Reallocation of existing funds</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. New student workload</td>
<td>xxxxxxxxxx</td>
<td>xxxxxxxxxx</td>
<td>0</td>
</tr>
<tr>
<td>3. New tuition</td>
<td>6,729</td>
<td>17,944</td>
<td>26,916</td>
</tr>
<tr>
<td>4. Federal funds</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Other grants</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6. Student fees</td>
<td>2,680</td>
<td>6,968</td>
<td>9,648</td>
</tr>
<tr>
<td>7. Other (________)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Subtotal**

|                        | 9,409      | 24,912      | 36,564     |

New state allocation requested

|                        | 0          | 0           | 0          |

**GRAND TOTAL REVENUES**

|                        | 9,409      | 24,912      | 36,564     |

#### B. Nature of funds

|                        | 9,409      | 24,912      | 36,564     |

**GRAND TOTAL REVENUES**

|                        | 9,409      | 24,912      | 36,564     |
Appendix A

External Letters of Support
Dr. Ronald L. Hendrick, Jr.
Associate Dean for Academic Affairs
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Hendrick:

I’m writing to support the creation of a Master of Natural Resources (MNR) degree at the University of Georgia to distinguish masters level natural resources education from the current, well recognized non-thesis Master of Forest Resources (MFR). This degree more correctly reflects the focus of general natural resource degrees and is consistent with the recent name change at the Warnell School.

The Master of Forest Resources degree was instituted at the University of Georgia to serve as a professional degree to distinguish it from the older Master of Science research oriented degree. Since it was first awarded in 1950, the degree has attained a national reputation as an advanced degree in the practical application of forestry.

This professional degree has become the “gold standard” in professional forestry graduate education especially in the area of forest business. It is time to keep this special degree focused on forestry only. The creation of the proposed Master of Natural Resources will allow students who are getting MFRs with a natural resource focus to have a degree more reflective of their area of study. The MFR is well known for its forestry focus, and the creation of the MNR will reinforce this exclusive name “branding” and avoid confusion.

Sincerely,

Thomas Reed
Vice President, General Manager
Southern Region
United States Department of Agriculture
Forest Service

Science Quality Services
320 Green St.
Athens, GA 30602-2044
706-559-4224

Date: October 9, 2007

Dr. Ronald L. Hendrick, Jr.
Associate Dean for Academic Affairs
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Hendrick,

This letter is written in support of the proposed Master of Natural Resource (MNR) Degree at the University of Georgia’s Warnell School of Forestry and Natural Resources. For the past six years, the office of Environmental and Science Education, an emphasis area within the Science Quality Services Staff (Washington Office R&D) and remotely located in Athens, has partnered with Warnell faculty and students. During this time, we have worked with students interested in conservation education who have become engaged with Forest Service education projects through independent study, graduate level academics, internships, and volunteer work. Through cooperative agreements, the Forest Service has supported some of these students as they have worked through their graduate programs. The proposed MNR degree fills a growing need for broader-based natural resource-related careers such as conservation education. It is clear that students with such interest, as well as their future employers, would benefit from the proposed MNR degree.

In particular, the ESE emphasis area promotes the application of natural resource science as a tool for conservation education. Recent nationwide attention given to the challenges associated with “nature deficit disorder” in our Nation’s youth underscores both need and opportunity. When the Warnell School of Forestry and Natural Resources institutes the proposed MNR Degree program, our opportunity for support and cooperation will increase as we address this national crisis. As students are able to pursue their interest in conservation education academically and experientially, Warnell can build a program in conservation education unrivaled in the United States. The Forest Service’s ESE emphasis area supports the creation of the broad natural resources degree program, and offers continuing cooperation with the Warnell School to build a nationally-recognized program that incorporates experiential learning through Forest Service education projects.

I congratulate the Warnell School on this endeavor and look forward to our continued partnership. Please contact me if you have questions or want clarification.

Sincerely,

/s/ Barbara McDonald

BARBARA MCDONALD
Social Scientist
August 24, 2007

Dr. Ronald L. Hendrick, Jr.
Associate Dean for Academic Affairs
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Hendrick:

I’m writing to support the creation of a Master of Natural Resources (MNR) degree at the University of Georgia to distinguish masters level natural resources education from the current, well recognized non-thesis Master of Forest Resources (MFR). This degree more correctly reflects the focus of general natural resource degrees and is consistent with the recent name change at the Warnell School.

The Master of Forest Resources degree was instituted at the University of Georgia to serve as a professional degree to distinguish it from the older Master of Science research oriented degree. Since it was first awarded in 1950, the degree has attained a national reputation as an advanced degree in the practical application of forestry.

This professional degree has become the “gold standard” in profession forestry graduate education especially in the area of forest business. It is time to keep this special degree focused on forestry only. The creation of the proposed Master of Natural Resources will allow students who are getting MFRs with a natural resource focus to have a degree more reflective of their area of study. The MFR is well known for its forestry focus, and the creation of the MNR will reinforce this exclusive name “branding” and avoid confusion.

Sincerely,

[Signature]

Earl D. Barrs
October 9, 2007

Dr. Ronald L. Hendrick, Jr.
Associate Dean for Academic Affairs
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Hendrick,

I am writing to support the creation of a Master of Natural Resources (MNR) degree at the University of Georgia, Warnell School of Forestry and Natural Resources. There is a significant need for a MNR to provide students with an opportunity to earn a non-thesis graduate degree with a focus on general natural resources subject areas such as conservation education.

As a graduate of a non-thesis program in Aquarium Sciences at the University of Maryland, I personally understand the need and the practical application of such a program. Maryland’s program opened many doors for me and provided numerous experiential learning opportunities that prepared me for a profession in the Aquarium industry. I feel that a like program in natural resources can only benefit the state of Georgia and the industry.

The MNR will produce Masters level graduates with the knowledge, skills, and abilities to work in many different settings such as state and federal agencies, nature centers, and private organizations like the Georgia Aquarium. The MNR will also provide opportunities for the Georgia Aquarium to strengthen our partnership with the University of Georgia.

Sincerely,

Kim Morris-Zarneke
Manager of Education Programs
August 25, 2007

Dr. Ronald L. Hendrick, Jr.
Associate Dean for Academic Affairs
Warnell School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Dear Dr. Hendrick:

I'm writing to support the creation of a Master of Natural Resources (MNR) degree at the University of Georgia to distinguish masters level natural resources education from the current, well recognized non-thesis Master of Forest Resources (MFR). This degree more correctly reflects the focus of general natural resource degrees and is consistent with the recent name change at the Warnell School.

The Master of Forest Resources degree was instituted at the University of Georgia to serve as a professional degree to distinguish it from the older Master of Science research oriented degree. Since it was first awarded in 1950, the degree has attained a national reputation as an advanced degree in the practical application of forestry.

This professional degree has become the “gold standard” in profession forestry graduate education especially in the area of forest business. It is time to keep this special degree focused on forestry only. The creation of the proposed Master of Natural Resources will allow students who are getting MFRs with a natural resource focus to have a degree more reflective of their area of study. The MFR is well known for its forestry focus, and the creation of the MNR will reinforce this exclusive name “branding” and avoid confusion.

Sincerely,
Superior Pine Products Company

Miles A. Stone
President
October 5, 2007

Dean Mike Clutter
University of Georgia Warnell School of Forestry & Natural Resources
Athens, Georgia 30602

Re: Masters of Natural Resources

Dear Dean Clutter;

I’d like to introduce myself and congratulate you on your appointment as Dean of the UGA Warnell School of Forestry and Natural Resources. I’d also like to share my excitement about the news that Warnell will be moving forward with a Masters of Natural Resources program.

As director of the Georgia State Parks, Recreation and Historic Sites Division (PRHSD), I have had the opportunity to work with Dr. Bob Warren and Dr. Gary Green on a variety of projects. I’ve shared with them my frustration about UGA students’ limited knowledge or pursuit of career opportunities with our unit of the Georgia Department of Natural Resources. We’ve discussed the new Masters of Natural Resources program, and I want you to know that I wholeheartedly support the action and pledge my active participation in any way necessary to see it through.

PRHSD’s role is to protect our state’s natural beauty and historic integrity while providing opportunities for public education and enjoyment. I believe that a combination of proper stewardship and positive public engagement is critical for the future of our state’s natural resources. This connection is incorporated with Georgia’s 2008-2013 Statewide Comprehensive Outdoor Recreation Plan (SCORP), recently adopted by the Georgia Board of Natural Resources and endorsed by Governor Perdue. SCORP calls for the state to ‘inspire and facilitate the efforts of the university system to create degree programs designed to educated students and produce well-trained professionals in the fields of resource management and recreation.’ Warnell’s new Masters of Natural Resources will be an important step in fulfilling this recommendation. One that will be supported by not only PRHSD, but also other allied agencies such as the Georgia Recreation and Park Association.

I would be honored to personally meet with you to discuss how we might work together to insure the success of the new Masters in Natural Resources program.

Until then, my regards,

Becky Kelley
Appendix B

List of MNR-Eligible Warnell Graduate Courses
MNR-Eligible Warnell Graduate Courses

FORS 4000/6000-4000L/6000L. Forest Soil Management. 3 hours. Morphological, physical, and chemical soil properties affecting tree growth and forest productivity; evaluation of soils and site quality; preparation of forest sites for planting, diagnosis, and correction of nutrient limitations; use of forest soil systems for waste treatment.

FORS 4030/6030. Regional Silviculture. 3 hours. Identification of the major forest regions of the United States and discussion of their silvicultural management.

FORS(ECOL) 4040/6040-4040L/6040L. Herpetology. 4 hours. Evolution, ecology, behavior, structure, and physiology of amphibians and reptiles.

FORS(BIOL) 4050/6050-4050L/6050L. Mammalogy. 3 hours. Mammalian diversity with emphasis on taxonomic identification, systematics, natural history, and methods of field study.

FORS 4060/6060-4060L/6060L. Field Ornithology. 4 hours. Bird identification, also emphasizing ecology, evolution, behavior, and field techniques.

FORS 4110/6110-4110L/6110L. Forest Hydrology. 4 hours. Multidisciplinary examination of the terrestrial components of the hydrologic cycle focusing on the qualitative analysis of precipitation, snowmelt, runoff generation, routing, infiltration, and subsurface flow and transport. Emphasis is on the definition of hydrologic processes, identification of hydrologic resources, development of environmental monitoring techniques, and application to hydrologic resources management.

FORS 4120/6120. Quantitative Methods in Hydrology. 3 hours. Advanced analysis of hydrologic processes to provide a theoretical understanding of precipitation, evapotranspiration, streamflow, groundwater occurrence and movement, and soil zone flow and transport. Emphasis is upon quantitative methods used in conjunction with field and laboratory data to identify flow and transport dynamics in hydrologic systems.

FORS 4130L/6130L. Field Methods in Hydrology. 3 hours. Field data acquisition methods to hydrologic systems are used to determine precipitation quantity and quality, evapotranspiration, streamflow, groundwater occurrence and movement, and soil zone transport processes. Physical and chemical measurements are coupled to determine flow paths, mass balances, and the environmental fate of solutes.

FORS 4160/6160-4160L/6160L. Environmental Monitoring. 3 hours. Design, implementation, and interpretation of sampling programs for environmental systems (especially aquatic systems) for monitoring, regulatory activities, quality control, scientific study, and impact assessment.

FORS(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4170L/6170L. Hydrology, Geology, and Soils of Georgia. 3 hours. This field course focuses on the physical environment of Georgia by examining the diverse geology, soils, and surface and subsurface hydrologic processes within the state.
state. We will travel to all of Georgia's physiographic areas, visiting mines, farms, forests, wetlands, rivers, lakes, and estuaries to explore the influence of human activities on the physical environment.

**FORS 4200/6200-4200L/6200L. International Forest Business.** 3 hours. An overview of existing forest resources, their management and utilization throughout the world's major forest regions. Introduction to the issues of globalization, trade, exchange rates, and foreign direct investment. Offered spring semester every year.

**FORS 4210/6210. Forest Health and Protection.** 3 hours. Major insect and disease problems of forests, with an emphasis on their recognition and management. Forest fire prevention, detection, suppression and management.

**FORS(ECOL)(GEOG) 4250/6250. International Forest Management.** 1-6 hours. Repeatable for maximum 10 hours credit. Study-abroad to examine issues pertaining to the management of forested landscapes in the visited country. Introductory lectures on the natural and cultural history of the visited country will be followed by extended field examination of the country's forest resources and their management.

**(FORS)(ANTH)RLST 4270/6270. Field Studies in Recreation, Tourism, and Leisure.** 1-10 hours. Repeatable for maximum 10 hours credit. Field studies to explore the provision, management and conservation of recreation, tourism, and leisure resources and opportunities.

**FORS(AAEC)(ANTH)(ECOL)(GEOG)(INTL)(RLST) 4271/6271. Field Studies in Natural Resources.** 1-9 hours. Repeatable for maximum 10 hours credit. Field studies to explore the management and conservation of natural resources with a focus on issues related to forestry, wildlife, ecology, recreation and tourism, geology, and/or coastal/water resources. The impact of humans on these resources will also be emphasized.

**FORS(MARS) 4272/6272. Antarctica: The Fragile Continent.** 3-12 hours. Repeatable for maximum 12 hours credit. The bio-physical context and human history of Antarctica, with a specific focus on their relevance to this unique and fragile continent's conservation and sustainable use.

**FORS 4280/6280. Field Studies in Natural History.** 4 hours. Repeatable for maximum 8 hours credit. 5 hours lecture and 30 hours lab per week. Field studies to explore the ecology and natural history of plant and vertebrate communities in a variety of biomes and ecosystems. Identification and field study skills will be emphasized.

**FORS 4300/6300-4300L/6300L. Management of Wildlife Habitat.** 4 hours. Principles and practices related to the management of forested ecosystems for wildlife and biological diversity, with emphasis on habitat management at the stand and landscape level. Habitat management through use of appropriate silvicultural practices, wildlife enhancement techniques, and regulations is evaluated.
(FORS)ECOL 4310/6310-4310L/6310L. Limnology. 4 hours. Aquatic ecosystems (lakes and streams) and their biota. Linkages between terrestrial and aquatic ecosystems.

FORS 4320/6320. Wildlife Physiology and Nutrition. 3 hours. An advanced course relating animal physiology and nutrition to wildlife ecology and management.

FORS 4330/6330-4330L/6330L. Water Quality Management in Fisheries and Aquaculture. 3 hours. Chemical and biological aspects of water quality, with emphasis upon relationships between water quality and fish production. Practical information on water quality management and related fields.

FORS 4340/6340. Nongame and Endangered Species Management. 3 hours. Management of nongame species and backyard (suburban and urban) habitats, including habitat enhancement and species biology. Factors affecting extinctions and declines in biodiversity, including laws, policies, and management activities designed to protect threatened and endangered species and critical habitats.

FORS 4350/6350. Conservation Genetics. 3 hours. The theory of conservation genetics, the methods to sample and analyze genetic diversity and applications for the management of natural plant and animal populations.

(FORS)ECOL 4360/6360. Fish Ecology. 4 hours. Lectures and discussions will be used to provide an interactive exploration of the ecology of fishes. Topics include: foraging, reproduction, habitat selection, niche, competition, and the mechanisms controlling fish biodiversity. Instruction includes both the status of a topic and appropriate research designs. The latter materials will be relevant to most animal taxa.

FORS 4370/6370. Fish Physiology. 3 hours. Basic fish physiology with an emphasis on the effects of environmental stresses on physiological functions of fish.

(FORS)MARS 4380/6380-4380L/6380L. Marine Fisheries Biology. 3 hours. Interaction of oceanographic processes with the life histories and productivity of marine fisheries species, and the human interactions with major marine fisheries.

FORS 4410/6410-6410L. Techniques in Wildlife Population Management. 3 hours. Field and laboratory methods commonly used by professional wildlife ecologists to analyze and manipulate animal populations.

FORS 4570L/6570L. Practical Wood Identification. 2 hours. Identification of domestic and commercial tropical woods.

FORS 4610/6610-4610L/6610L. Forest Mensuration. 4 hours. Direct measurement and indirect estimation of primary and secondary forest products. Measures of stand productivity, density, and growth.
FORS 4620/6620. Timber Management. 3 hours. Organization and management of forest properties for the production of commercial forest products.

FORS 4640/6640. Forest Inventory. 3 hours. Planning forest inventories and comparison of various equal and unequal probability sampling concepts; permanent and temporary forest sampling procedures; current stand and future growth estimation principles.

(FORS)(BCMB)PBIO 4670/6670. Plant Molecular Responses to the Environment. 4 hours. Molecular and biochemical regulation of plant metabolic pathways activated in response to environmental cues, environmental stress, and interaction with pathogenic and symbiotic organisms. Cell wall formation (primary wall, wood), secondary metabolism (lignin, flavonoids, phenolics), wounding, plant defense (phytoalexins, oxidative burst, hypersensitivity), responses to drought, flooding, salinity, pollutants (heavy metals, ozone).

FORS 4700/6700-4700L/6700L. Forest Economics. 3 hours. An overview of the application of economic analyses to forest resources. Forest resource professionals will be given a better understanding of the economic factors that influence forest management decisions.

FORS 4710/6710-4710L/6710L. Quantitative Decision Methods for Forest Management. 3 hours. Analysis methods applicable to forest management planning and decision making in forestry. Particular emphasis on optimization procedures and financial analysis.

FORS 4800/6800. Renewable Resources Policy. 2 hours. Renewable resource policy as a process, concentrating on analysis of laws and rules affecting the use and production of renewable natural resources. Topics of focus include property rights development with discussion given to private property resources, such as forests, common property resources such as wildlife and fish, and the evaluation of current policy issues.

FORS 4850/6850. Forest Operations Study Tour. 2 hours. On-site examination and analysis of active forestry operations in major wood producing regions of the world, including the southern United States, North America, and other continents. Focus on industrial forestry, including forest management, harvesting, and transportation operations as well as conversion facilities such as pulp/paper mills, sawmills, engineered wood facilities, and other wood-using plants. Non-traditional format: Class involves a week-long field trip before the beginning of fall semester. Students are expected to pay for room and board.

FORS 4890/6890. Field Methods in Wildlife Management and Research. 1 hour. Field course providing personal experience in field methods used by wildlife biologists (prescribed burning, wildlife capture/handling, population assessment, radiotelemetry, habitat surveys, etc.).

FORS 4900/6900-4900L/6900L. Wildlife Damage Management. 3 hours. Theory and practice of assessing and controlling damage done by wild and feral vertebrate animals, especially mammals and birds. Emphasis is on protecting agricultural and forest crops and property.

FORS 4930/6930. Wildlife Ecology and Management for Teachers. 3 hours. The scientific and technical aspects of wildlife management. Students will acquire a basic understanding of
wildlife management that will enable them to teach at the middle and high school level.

**FORS 5010/7010. Urban Tree Management.** 3 hours. Establishment and maintenance of trees in urban environments. Nature and benefits of trees, planting, and soil management; pruning, repair, and protection; stress management; values of urban trees.

**FORS 5250/7250. International Issues in Wildlife Conservation.** 2-6 hours. Repeatable for maximum 12 hours credit. An overseas, field-based course that explores wildlife conservation and management topics and issues in the host country. Includes lectures and field projects related to sustainable use of wildlife and human conflicts with wildlife.

**FORS(CRSS) 5330/7330-5330L/7330L. Wildlife Management in Agricultural Ecosystems.** 3 hours. Impact of agricultural practices on the suitability of farmland for wildlife habitat and wildlife biodiversity. Introduction of management systems that enhance wildlife populations. Focus on agriculture and wildlife in Georgia, but including national and international issues.

**FORS 5360/7360. Fisheries Management.** 3 hours. Principles, methods, and techniques used in the management of freshwater and marine fisheries resources. Practical, theoretical, and ethical questions are addressed.

**FORS 5360L/7360L. Fisheries Management Laboratory.** 1 hour. Principles, methods, and techniques used in the identification and sampling of freshwater and marine fisheries. Emphasis is on hands-on experience in both field and laboratory settings.

**FORS 5380/7380-5380L/7380L. Fish Culture.** 3 hours. Biotic and abiotic aspects of extensive and intensive culture of freshwater fishes. Emphasis is on species and methods utilized in the eastern United States.

**(FORS)(ANTH)RLST 5400/7400-5400L/7400L. Parks and Ecotourism Management.** 3 hours. An introduction to the sustainable planning, development, and management of parks, protected areas and ecotourism, worldwide. Classroom lectures will be combined with a field trip, guest speakers, and a group case study to examine six key components of sustainable protected areas and ecotourism management.

**FORS(RLST) 5410/7410. Wilderness Management.** 3 hours. Origins of the wilderness movement; wilderness values; scope of wilderness management as limited by laws and philosophy; principles of wilderness management; and review status and management of non-roaded natural areas.

**FORS 5610/7610. Prescribed Fire in the Forest Ecosystem.** 2 hours. Applications of fire as a tool for forest management, species conservation, and ecosystem restoration in the southeastern coastal plain. Analysis of fuels, weather, and fire behavior. Fire effects on plants, animals, and soils in the longleaf pine ecosystem. Emphasis on field experience with prescribed burns.

**FORS 5650/7650-5650L/7650L. Aerial Photogrammetry in Forestry.** 3 hours. The theory, techniques, and tools applicable to the use of aerial photographs in forest resource management.
and decision-making.

**FORS 5660/7660. Forest Science for Teachers.** 3 hours. This course is designed for pre-service Agricultural Education teachers. Students will be prepared to teach the approved Forest Science I curriculum. Students will develop technical skills and increase content knowledge through hands-on activities in the classroom and the field. In addition, students will complete Project Learning Tree Educator training.

**FORS 5680/7680. Economic Perspectives on Natural Resource Issues.** 3 hours. Applications of economics to natural resource and environmental decision making. Topics include water, wildlife, forests, fisheries, land-use, sustainability, development, and uncertainty. Emphasis is on practical applications and case studies, stressing the value of interdisciplinary research and decision making.

**FORS 5720/7720-5720L/7720L. Forest Harvesting and Roads.** 3 hours. Techniques and systems for harvesting and roading forests. Production, cost, quality, safety, and environmental protection measures. Field exercises stress planning of harvesting and road construction operations to achieve desired objectives.

**FORS 5730/7730. Principles of Forest Management.** 3 hours. Practical forestry in the South with emphasis on the management of private forest land. Topics include forest regeneration, tree identification and growth, basic measurements of tree crops. Not open to FRS majors.

**FORS 5750/7750. Procurement and Management of Wood Fiber Supply.** 3 hours. Management of the wood fiber supply, program management functions, legal aspects and analysis of current issues in raw material management.

**FORS 5760/7760. Forest Products Marketing.** 3 hours. Planning, organizing, and managing forest products marketing programs, domestically and internationally. Focus on developing marketing strategies and implementation of marketing plans in the context of forest industry structures and distribution channels.

**FORS 5770/7770-5770L/7770L. Applied Population Dynamics.** 3 hours. Foundations of population dynamics from an applied perspective. Exponential and logistic population growth, life tables, multiple species interactions, and basic population models. Sampling design and analytical methods for estimating abundance and demographic parameters. Application of population models to harvest management and small population management. Integrative student project required.

**FORS 5820/7820. Natural Resources Law for Managers and Administrators.** 4 hours. Statutory, case law, and regulations concerning resource conservation, allocation, and development. Modern, systems-sensitive regulatory programs affecting natural resources administration analyzed. Examination of the division and nature of the functions of the judicial and executive branches of government.
FORS 5850/7850. Forest Policy Issues. 2 hours. Forestry issues and political processes. A general framework for analyzing current issues is developed and specific issues are analyzed each year.

FORS 5880/7880. Environmental Interpretation for Outdoor Recreation and Nature-Based Tourism. 3 hours. Outdoor recreation and natural resources provide a unique environment for educating people about environmental issues. This environment is conducive to promoting environmental awareness and interpretation techniques. Students will learn about the concepts and techniques of Environmental Interpretation. Emphasis will be placed on environmental interpretation in natural resource recreation.

FORS 5890/7890. Tourism and Sustainable Development. 3 hours. Introduction to tourism and management, environmentalism, sustainable development and planning, the politics and sociology of tourism, economic development, and globalization. Tourism and examples of sustainable development, both in the public and private sectors, will also be examined at the local, national, and international level.

(FORS)(ANTH)ECOL 6140. Principles of Conservation Ecology and Sustainable Development II. 3 hours. Social science dimensions of conservation and sustainable development; social, economic, and political considerations in managing natural resources; policy-level aspects to project implementation.

FORS 6150. Control and Systems Theory for the Environmental Scientist. 3 hours. Development of models of the dynamic behavior of environmental systems from the perspective of process engineering and control. State-space, continuous-time, and discrete-time representations. Introduction to, and tutorials in, the MATLAB-SIMULINK software package.

FORS 6750. Experimental Methods in Forest Resources Research. 3 hours. Statistical procedures and computer software to collect, analyze, and interpret forest resources research data.

FORS 6760-6760L. Quantitative Models for Forest Resources Managers. 3 hours. Model forms used to simulate tree and forest stand development as well as models used to simulate the growth of various wildlife and fish species. Parameter estimation methods and model evaluation included.

FORS 7000. Master's Research. 1-18 hours. Repeatable for maximum 100 hours credit. Research while enrolled for a master's degree under the direction of faculty members. Non-traditional format: Independent research under the direction of a faculty member.

FORS 7070. Forest Resources Consulting and Real Estate Practice. 3 hours. The establishment and management of forestry, wildlife consulting, and rural real estate practices.

FORS 7210-7210L. Spatial Analysis in Natural Resources. 3 hours. Theory and applications of spatial information technology and spatial analysis techniques in natural resources. Focus will be on addressing realistic problems within the field of natural resources, including in student's
own research area.

**FORS 7550-7550L. Contemporary Forest Products.** 3 hours. Description of traditional forest products and the processes involved in their manufacture; changes in manufacturing technology and the development of new forest products; relationships between wood properties and forest product properties; rapid methods for assessing wood properties. Three full-day field trips to wood processing plants are required.

**FORS 7630. Intensive Forest Management.** 3 hours. Effects of silvicultural treatments on growth, yield, and product distributions of forest stands. Effects of vegetation management at various points in the life of the stand, fertilization, thinning, pruning, and initial spacing included. Effect magnitude as an objective criterion for management decision making is emphasized.

**FORS 7640. Advanced Forest Management.** 3 hours. Models for estimating forest yields at different points in time, including models for uneven-aged stands, and thinned stands, and methods for adjusting for effects of cultural treatments. Whole stand and diameter distribution yield models examined.

**FORS 7710. Advanced Forest Economics.** 3 hours. Microeconomic and production economics theory with forest resources applications, financial analysis of investments, social benefit-cost analysis.

**FORS 7780. Timberland Accounting, Finance, and Taxation.** 3 hours. Timberland accounting, financial analysis of forest products company operations, financial evaluation of timberland investment and forest management decision alternatives, linkages between financial markets and timberland, timber taxation, and strategies involving forest assets in estate planning.

**FORS 7790. Forest Finance Decisions.** 3 hours. Analysis of forest asset financing, acquisition, management, and disposition decisions from a financial perspective. Development of financial strategies for a forestry operation, timberland portfolio management, asset pricing models and timberland, the behavior and evolution of forest asset markets, timber access options, and entrepreneurship in forestry.

**FORS(AAEC) 7860. Resource Economics and Management.** 3 hours. Economic and physical concepts of scarcity, the impact of market and social factors on resource use, and the optimal management of renewable and nonrenewable resources.

**FORS 7870. The Science of Sustainability.** 2 hours. Sustainability is everywhere. Despite its popularity, however, the concept of sustainability is difficult to define or operationalize. This seminar will investigate definitions of sustainability and the scientific basis for operationalizing the concept. We will focus on quantifiable metrics that might help determine if we are managing our natural resources sustainably.

**FORS 7900. Forest Operations Management and Planning.** 3 hours. An investigation of issues and techniques in planning, development, and management of forestry business
Content is divided into two components: operations strategy formulation and operations strategy implementation. Special emphasis will be placed on the application of advanced quantitative techniques to forestry operations management problems.

**FORS 7981. Fisheries and Aquaculture Problems.** 1-12 hours. Repeatable for maximum 24 hours credit. Individual student problems pertaining to fisheries and aquaculture at the masters level.

**FORS 7982. Forestry Problems.** 1-12 hours. Repeatable for maximum 24 hours credit. Individual student problems pertaining to forestry at the masters level.

**FORS 7983. Forest Soils, Hydrology and Environmental Systems Problems.** 1-12 hours. Repeatable for maximum 24 hours credit. Individual student problems pertaining to forest soils, hydrology, and environmental systems at the masters level.

**FORS 7984. Wildlife Ecology and Management Problems.** 1-12 hours. Repeatable for maximum 24 hours credit. Individual student problems pertaining to wildlife ecology and/or management at the masters level.

**FORS 7985. Natural Resource Recreation and Tourism Problems.** 1-12 hours. Repeatable for maximum 24 hours credit. Individual student problems pertaining to natural resource recreation and tourism at the masters level.

**FORS 7990. Supervised Professional Practicum in Forest Resources.** 1-10 hours. Repeatable for maximum 40 hours credit. Prerequisite: Permission of school. University-level teaching, including the presentation of lectures and/or laboratory sessions under faculty supervision, at the masters level.

**FORS 8000. Forest Resources Seminar.** 1-2 hours. Repeatable for maximum 4 hours credit. Fundamental and applied topics relating to multiple-use management of forests and wild land, including literature review and current advances.

**FORS 8010. Forest Business Seminar.** 1 hour. Current and emerging issues in forest business management, including literature review and case presentations. Students will be expected to give brief presentations on assigned topics.

**FORS 8020. Bio-Based Economy Seminar.** 1-3 hours. Issues and opportunities associated with generating electric power or producing liquid fuels or other products from biomass. Topics include the economics of bio-based products, potential feedstock sources, alternative conversion processes for energy or fuels, harvesting and handling issues, production cost, and energy balances in alternative systems.

**FORS 8030. Advanced Tree Physiology.** 3 hours. Recent research in the processes that directly or indirectly affect carbon gain and allocation, including photosynthesis, respiration, nutrient uptake, water relations, and growth of trees.
FORS 8040. Current Topics in Forest Biotechnology. 3 hours. Applications of genetic, biochemical, and physiological principles to forest trees; forest products and organisms affecting forests, including in vitro propagation, genetic engineering, genomic mapping, bioprocessing and biological control of tree pests and pathogens.

FORS 8050. Forest Stand Dynamics. 3 hours. Dynamics of mortality, growth, and biomass allocation in forest stands during the four stages of development (stand initiation, stem exclusion, transition, and old growth) with emphasis on silviculture of southeastern United States forests.

FORS 8100. Advanced Forest Ecology. 3 hours. Factors regulating the structure and function of forest ecosystems, forest energetics, community dynamics, and research methods.

FORS 8120. Hillslope Hydrology Seminar. 3 hours. Current concepts used to describe water and chemical movement on watersheds scales. Conceptual models of flow at watershed scales, saturated/unsaturated flow and transport processes, and techniques for measuring soil moisture, soil potential, and lateral surface and subsurface flow.


FORS 8160. Environmental Process Control Laboratory. 2 hours. Instrumentation and systems for real-time remote sensing and control of the behavior of environmental systems and contaminant treatment technologies. Functions of on-line respirometry and intelligent/software sensors. Principles and integration of sample retrieval, preparation, analysis, data storage, communication, and presentation.

FORS 8170. Environmental Systems Analysis and Control. 1-3 hours. Current topics, books and articles in inter-disciplinary studies of the analysis and regulation of environmental systems. Cross-disciplinary thinking through a diverse set of topics (such as choice of wastewater infrastructure for sustainable cities, or protocol for model validation).


FORS 8200. Scientific Research in Forest Resources. 3 hours. The scientific method, standards for good scientific conduct, research proposal writing and reviewing skills are emphasized.

FORS 8210-8210L. Scientific Communication in Natural Resources. 3 hours. Preparation of scientific manuscripts for publication and presentation of papers at scientific conferences. Preparation of individual manuscripts, figures, and tables; writing with clarity, brevity, and word economy; dealing with journal editors and reviewers; reviewing and editing manuscripts;
preparing proposals for funding; presentation of oral and poster papers at scientific conferences; and preparation of visual aids.

**FORS 8290. Wildlife Telemetry.** 3 hours. Radio-telemetry is a widely used and important technique in wildlife management and conservation. Exploration of the various aspects of applications of the technique, analysis of telemetry data, and the numerous pitfalls researchers encounter in the field. Rapid changes in technology and use of wildlife telemetry outside of traditional applications will be covered.

**FORS 8300. Wildlife and Fisheries Seminar.** 1-2 hours. Repeatable for maximum 6 hours credit. Recent advances in wildlife and fisheries research and management.

**(FORS)ECOL(PBIO) 8310. Population Ecology.** 4 hours. 3 hours lecture and 2 hours lab per week. Advanced ecological theory to biological populations. Mathematical and evolutionary treatment of population growth and regulation, niche theory, foraging theory, predator-prey theory, habitat selection, and competition.

**(FORS)ECOL 8322. Concepts and Approaches in Ecosystem Ecology.** 4 hours. Ecosystem biogeochemical processes and the organism-organism, organism-environment interactions that regulate them. The relationship of ecosystem structure and function to foodwebs, global change, scaling, nonlinearity, self-organization, and approaches to study these.

**(FORS)ECOL(PBIO) 8325-8325L. Modeling Population Ecology.** 4 hours. Review of some commonly used mathematical approaches to modeling ecological populations, including single species approaches (discrete and continuous time), age/stage structure, species interactions, spatial structure, harvesting, and management.

**FORS(ECOL) 8330. Landscape Ecology.** 3 hours. The emerging field of landscape ecology, emphasizing the study of large land areas and the effects of spatial pattern on ecological processes. Fundamental theories, analysis tools, research methods, and their applications to natural resource management at broad spatial scales.

**FORS 8350-8350L. Waterfowl and Wetland Management.** 4 hours. Ecology of North American waterbirds (ducks, geese, swans, shorebirds, rails, gallinules, wading birds) and their habitats. Techniques for managing waterfowl populations by harvest regulations and habitat manipulation. Identification and requirements of important wetland plants.

**FORS 8360. Quantitative Approaches to Conservation Biology.** 4 hours. Course format utilizes lectures, discussions of journal articles, and computer simulation exercises (including model selection/analysis) to explore new quantitative approaches to conservation biology. Topics include habitat selection theory, landscape ecology, and population viability analysis. Students should have previous courses in ecology and statistics.

**FORS 8390-8390L. Estimation of Fish and Wildlife Population Parameters.** 4 hours. Statistical methods for estimating parameters and testing hypotheses of fish and wildlife populations. Models of population dynamics. Sampling and estimation methods including line-
transect, mark-recapture, removal, catch-effort, tag-recovery, and analysis of failure times. Optimization and decision-theoretic methods for wildlife and fisheries management.

(FORS)(ECOL)PBIO 8410. Community Ecology. 4 hours. The applicability of advanced theory to multi-species communities. Patterns and processes that influence species composition, diversity, and function. Topics include deterministic vs. stochastic regulation, succession, resource partitioning, patch dynamics, island biogeography, and food webs.

FORS 8450. Advanced Forest Planning. 3 hours. This course is designed to provide students with the theory, techniques, and tools associated with the most common, and more recently introduced, operations research techniques used in developing forest plans.

FORS 8470. Self-Referencing Modeling for Environmental Sciences. 3 hours. Repeatable for maximum 6 hours credit. Application of statistical, mathematical, and computational, modeling concepts to the development of advanced self-referencing functions describing the dynamics of multi-dimensional systems affected by unobservable variables. Use of the generalized algebraic difference approach and stochastic parameter estimation to develop theory-based, base-age and path invariant, generalized, unbiased self-referencing models with base-age independent parameter estimates.

FORS 8480. Quantitative Modeling of Forest Stands. 3 hours. Application of statistical and mathematical modeling concepts along with computer technology to develop models of forest tree and stand growth and yield. Formulation of mathematical models with proper biological behavior and estimation of parameters using compatible growth and yield structures and systems fitting methods.

FORS 8490. Sampling Techniques for Biological Populations. 3 hours. Theory of probability sampling procedures for populations of interest to forest resource managers.


FORS(IDIS) 8510-8510L. Diseases of Wildlife II. 5 hours. Fundamental causes of disease-induced morbidity and mortality among free-ranging wildlife populations. Emphasis is on the etiology, pathogenesis, clinical signs, lesions, epidemiology, diagnosis, and management significance of diseases of parasitic, toxicologic, or miscellaneous etiologies.

(FORS)(ECOL)EHSC 8610. Aquatic Toxicology. 3 hours. Toxicological effects of aquatic pollution focusing on fate and transport of xenobiotics; xenobiotic accumulation, dynamics, and toxicity in aquatic organisms; the analysis and modeling of the effects of aquatic pollution on organisms; and the determination of related risks to aquatic ecosystems and human populations.

FORS 8630. Animal Biodiversity and Conservation. 3 hours. Topics include formal logic and conservation biology, habitat selection theory, landscapes and biodiversity, island biogeography
and biodiversity, environmental variation, biodiversity, and resource use.

**FORS(GEOL) 8730. Aquifer Mechanics.** 3 hours. Mechanics of flow through subsurface media, including flow in confined, water table, and leaky aquifers, delayed yield, partially penetrating wells, boundaries, multiple wells, dual porosity media, and fractured rock; use of aquifer tests to estimate aquifer hydraulic properties.

**(FORS)GEOL 8740. Hydrologic Flow and Transport Modeling.** 3 hours. Solutions of surface and subsurface flow and transport problems including finite difference, finite element, and boundary integral methods. Analytic techniques include Laplace-, z-, and Fourier-transform, complex variable, and separation of variables methods. Application to problems commonly found in the environmental field, including capture zones, particle-tracking, advection-dispersion, and non-aqueous phase liquids.

**(FORS)(ECOL)PBIO 8770. Communities and Ecosystems.** 3 hours. Advanced synthesis of physiological, population, community, and ecosystem studies in the major terrestrial plant associations of the world.

**FORS 8780. Issues in Timberland Finance and Management.** 3 hours. Current and emerging issues in financing and managing timberland properties. Valuation, risk analysis, and forms of timberland control, at domestic and international levels.

**(FORS)(CRSS)(ECOL)PBIO 8850-8850L. Terrestrial Biogeochemical Cycling.** 4 hours. Plant processes which mediate biogeochemical cycling on land. Includes survey of global element cycling, functions of essential elements, element acquisition, translocation and loss by plants, litter decomposition, and methods of estimating standing stocks of elements in and transfer rates of elements between ecosystem components.
Appendix C

Sample MNR Program of Study
Sample Program of Study  
Masters of Natural Resources

Example Student: Undergraduate degree in Geography, pursuing MNR in Forest Biology

Required Graduate Course from within Warnell (12 credit hour minimum):

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Name</th>
<th>Credit Hrs</th>
<th>Grade</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 8200</td>
<td>Scientific Research in Forest Resources</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORS 7200</td>
<td>Master’s Research</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORS 8100</td>
<td>Advanced Forest Ecology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORS 9210</td>
<td>Applied Research in Forest Resources</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Required Courses External to Warnell (6 credit hour minimum):

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Name</th>
<th>Credit Hrs</th>
<th>Grade</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 6370</td>
<td>Geographic Information Science</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBIO 6650/L</td>
<td>Plant Taxonomy w/Lab</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HORT 6590</td>
<td>Soil Fertility &amp; Plant Nutrition</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HORT 6590L</td>
<td>Soil Fertility &amp; Plant Nutrition Lab</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Graduate Courses (15 credit hour minimum):

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Name</th>
<th>Credit Hrs</th>
<th>Grade</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 7983</td>
<td>Soils, Hydrology &amp; Environmental Systems Problems</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORS 7982</td>
<td>Forestry Problems</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORS 9210</td>
<td>Applied Research</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGED 6010</td>
<td>Agricultural Education Leadership Seminar</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HORT 6440</td>
<td>Environmental Physiology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 6210</td>
<td>Statistical Methods I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix D

Curriculum Vitae of Warnell Faculty Intending to Advise MNR Graduate Students
CURRICULUM VITAE

Michael Bruce Beck

Date of Birth: 16 September 1948

Address: 785 Riverbend Parkway
Athens, Georgia 30605, USA

Website: www.modeling.uga.edu

EDUCATION AND QUALIFICATIONS

1967-1970 University of Exeter
BSc in Chemical Engineering

1970-1973 King’s College, University of Cambridge
PhD in Control Engineering. Title of Thesis: The Application of Control and Systems Theory to Problems of River Pollution.

AWARDS AND DISTINCTIONS

Enplas Lecturer, Kennesaw State University (2001)
Elected member, Strategic Council, International Water Association (IWA) (Served 2002-2004 term)
Appointed member, National Research Council (National Academies of Science) Committee on Selection and Use of Models in the Regulatory Decision Process (2003-2007)
2003 Best Theoretical Paper Award, Journal of Water Resources Planning and Management, American Society of Civil Engineers (2004)
Institute Scholar, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (2006 and 2007)

EXPERIENCE

1993- present University of Georgia, Athens, Georgia
D B Warnell School of Forest Resources
Professor and Eminent Scholar
Wheatley-Georgia Research Alliance Chair of Water Quality and
Environmental Systems

Adjunct Professor
Department of Biological and Agricultural Engineering (1994-2001)

Imperial College, University of London
Department of Civil and Environmental Engineering

Visiting Professor and Senior Research Associate

RESEARCH INTERESTS

Environmental Systems Analysis. Mathematical modeling; analysis of uncertainty in environmental simulation models; protocols for model validation; structural change, environmental foresight, and forecasting environmental change; signal processing, filtering theory, recursive estimation and time-series analysis.

Engineering Process Control. Instrumentation, control and automation of municipal and industrial wastewater treatment facilities; microbial ecosystem control; risk, process reliability, and transient pollution events; high-performance integrated control (H-PIC) of urban wastewater infrastructures; operational watershed management.

Policy and Technology Review. Sustainable cities and their wastewater infrastructures; future trends in technologies of environmental protection; strategic developments in Civil Engineering; adaptive community learning.

OTHER PROFESSIONAL ACTIVITIES

Founder, Secretary, Vice-Chair, and Chair, Specialist Group on Systems Analysis and Integrated Assessment, International Water Association (IWA) (1984-present).

Member, Strategic Council, IWA (Term of office: 2002-2004).

Director, Sustainability Programme, IWA (2001-present).

Founding Member, Executive Board, International Environmental Modelling and Software Society (iEMSs) (2000-present).

Founding Member, Board, The International Integrated Assessment Society (TIAS) (2003-present).

Associate Editor, J Forecasting, Stochastic Hydrology and Hydraulics, Civil Engineering and Environmental Systems, Environmental Modelling and Software, Urban Water, Transactions of the (UK) Institute of Measurement and Control, Ecological Informatics, Engineering Sustainability (Proceedings Institution of Civil Engineers).


Expert Witness, House of Lords Select Committee (Tees Barrage Bill), House of Commons Environment Committee (Pollution of Beaches).


Member, The Mayor’s Clean Water Advisory Panel, City of Atlanta (2002).

RESEARCH SUPPORT

Community Values and the Long-term Integrity of Rapidly Urbanizing Watersheds (US EPA and UGARF: $934k; 1997-2002)
Pilot Project for an Offset Banking Program in Georgia (Georgia Research Alliance and Georgia State University: $80k; 2003-2006)
Implementing and Monitoring Stormwater Best Management Practices (BMPs) in Columbus, Georgia (US EPA: $1.5M; 2005-2008)
TransAtlantic Uncertainty Colloquium (TAUC), (US NSF: $100k; 2005-2007)
Characterizing Nutrient Releases from Southeastern Piedmont Lake Sediments, (USGS: $54k; 2006-2007)

PUBLICATIONS (REFEREED)

(A) Books


Contributions to Books


Beck M B, “The Manifesto”, Ch 5 in Environmental Foresight and Models: A


Journal Articles


**Conference Proceedings and Official (Refereed) Reports**


Beck M B and Jiang F, “Factor 10 Engineering for Sustainable Cities: Water


John P. Carroll, Ph.D.

Professional Employment
- Professor, Warnell School of Forestry and Natural Resources, University of Georgia, July 2006 – Present
- Visiting Professor, School of Bioresources & Technology, King Mongkut's University of Technology, Thonburi, Bangkok, Thailand, November 2006
- Associate Professor, Warnell School of Forestry and Natural Resources, University of Georgia, March 2001 – June 2006
- Visiting Professor, Department of Wildlife Ecology and Management, University of Freiburg, Freiburg, Germany, December 2004.
- Assistant Professor, Warnell School of Forestry and Natural Resources, University of Georgia, March 1998 – February 2001

Education
Ph.D., University of North Dakota, 1989; M.S., Eastern Kentucky University; 1982; B.S., University of Massachusetts, 1979

Postgraduate Awards and Honors
- African Studies Institute, University of Georgia, Outstanding Service Award, 2007
- African Studies Institute, University of Georgia, Outstanding Service Award, 2005
- University of Georgia Outstanding Teaching Award, 2004

University of Georgia Faculty, Research, and Professional Websites
- WSFNR faculty site - http://www.warnell.uga.edu/Members/carroll
- Personal research site - http://gamebird.forestry.uga.edu/research
- Bobwhite quail genetics - http://gallus.forestry.uga.edu/genetics/index.php
- WSFNR wildlife genetics lab - http://gallus.forestry.uga.edu/lab/
- World Pheasant Association Scientists Training Workshop website - http://coopunit.forestry.uga.edu/WPA_STW/index.html
- Tinamou research group – maintained by Jeff Thompson (Ph.D. student in my group) - http://gallus.forestry.uga.edu/~jit/index.htm
- Galliformes genetics group – maintained by Brant Faircloth (Ph.D. student in my group) - http://gallus.forestry.uga.edu/ggg/

University Teaching

University of Georgia – 1998 - Present
FORS 5770-7770 - Applied Population Dynamics (4 credits –going to 3 credits spring 2007), 6 semesters, taught every spring semester, Senior/Graduate - http://gamebird.forestry.uga.edu/fors5770
FORS 8290 - Wildlife Telemetry (1 credit—going to 3 credits spring 2007), 3 semesters, taught every spring semester, graduate - http://gamebird.forestry.uga.edu/fors8290
FORS 8300 - Fish and Wildlife Seminar, 2 semesters, graduate
FORS 5250-7250 - International Wildlife Conservation (South Africa Study Abroad) (6 credits), 6 semesters, taught every Maymester, senior/graduate - http://gallus.forestry.uga.edu/SA/
FORS 5250 - Wildlife Conservation in the Republic of Georgia (Study Abroad) (4 credits), 1 semester, taught spring 2005, undergraduate - http://gallus.forestry.uga.edu/ROG/
FORS 5330-7330 - Wildlife Management in Agricultural Ecosystems (3 credits), 1 semester, senior/graduate - http://gamebird.forestry.uga.edu/fors5330
FORS 3000 - Field Measurements (4 credits), 5 semesters, taught every spring until 2005, junior
FORS 4730 - Senior Project (4 credits), 2 semesters, senior
FORS 7450 - Senior Thesis (4 credits), 5 students, senior
FORS 2100 - International Issues in Conservation (3 credits), 3 semesters, non-major - http://gallus.forestry.uga.edu/fors2100
This course listing does not include graduate student research courses (FORS 7480), M.S. research or thesis hours (FORS 7000, 7300) or Ph.D. research or dissertation hours (FORS 9000, 9300)

King Mongkut's University of Technology – 2006
Applied Population Ecology, graduate students. Invited to fill need in department for a course in population biology until the position can be filled. About 35 hours of lectures and 25 hours of lab.

University of Freiburg – 2004
Wildlife Management, 2 sections, 2nd and 3rd year students. Co-taught course with Dr. Ilse Storch, presented 16 1-hour lectures.

Supervision of Graduate Students
Completed 22 M.S. students at the University of Georgia, California University of Pennsylvania, and University of Reading-UK. Currently supervising 5 M.S. students. Completed 3 Ph.D. students at the University of Georgia, University of Southampton-UK, and University of Florence-Italy. Currently supervising 6 Ph.D. students

Membership on M.S. and Ph.D. Graduate Committees
In addition to 20+ graduate committees at UGA, Dr. Carroll has served as an external examiner for Ph.D. students at the University of Oulu, Finland, and M.S. students at the University of Capetown and Technicon Pretoria, South Africa. He presently serves on the committees of a large number of both M.S. and Ph.D. students at the University of Georgia and as an external committee member for a student at the King Mongkuts University-Thailand, and Liverpool John Moores University-UK.

Publications (last 2 years)

Books and Monographs:

Chapters in Books and Published Proceedings:


Peer-reviewed Journal Articles:


Other Reports


Papers at Conferences (last 2 years)
All papers are oral presentations unless noted. Also, invited papers are noted.


Grants Received (last 3 years)


Professional Service

- Chair, Scientists Workshop - Young Asian Biologist Training Workshop, scheduled for October 2007 in Chengdu, Sichuan, China. One-week training program for 16 young Asian biologists in field methods for studying Galliformes.


- Georgia Bobwhite Quail Technical Committee, Northern Bobwhite Conservation Initiative, 2004-Present

- Rusch Award Committee of The Wildlife Society. 2003-Present

- Member, Conservation, Policy, and Programs Committee, World Pheasant Association, 1996-Present
CURRICULUM VITA FOR GARY T. GREEN

CONTACT INFORMATION

Work:
Daniel B. Warnell School of Forestry & Natural Resources
Bldg.1- Rm. 301D
University of Georgia
Athens, GA 30602
(706) 542-6556
ggreen@warnell.uga.edu

Home:
320 Crystal Court
Athens, GA 30606
(706) 296-3029

ACADEMIC HISTORY

Degrees:
1994-2000  Doctoral Degree (Ed.D.), Recreation and Leisure Studies
            (Administration) University of Georgia
            University of Georgia
1988-1990  D.M.S., Management Studies, Recreation and Leisure Core
            University of Northeast London
1986-1987  C.M.S., Management Studies, Recreation and Leisure Core
            University of Westminster – Harrow Business School

Academic Positions:
2004-Present  Assistant Professor, Daniel B. Warnell School of Forestry &
              Natural Resources, University of Georgia
2004-2005    Part-time Lecturer and Adjunct Assistant Professor, Department of
              Parks, Tourism, Recreation and Management, University of
              Clemson
2002-2004    Assistant Research Scientist, Daniel B. Warnell School of Forestry
              & Natural Resources, University of Georgia
2003-2004    Part-time Lecturer, Department of Sports Management, University
              of Georgia
2002-present Part-time Lecturer and Adjunct Assistant Professor, Recreation and
              Leisure Studies Department, University of Georgia

Other Professional Employment:
2000-2002    Project Research Director, University of Georgia, Recreation and
              Leisure Studies Department and USDA Forest Service
1986-1992    Regional Leisure Manager, Basildon Council, Essex
1983-1986    Leisure Manager, Basildon Sports Complex, Essex
1982-1983    Assistant Leisure Manager, Basildon Sport Complex, Essex

**ACADEMIC INSTRUCTION**

Courses Taught at the University of Georgia:

* Denotes jointly taught course.

Course title: Environmental Interpretation for Recreation (RLST 4840/FORS 5930)
Contribution: Created content and format.

Course title: Wilderness Management (RLST/FORS 7410/5410)
Contribution: Created course content for semester conversion.

Course title: Administration Practices in Leisure Services (RLST 4870)
Year: Spring 2001 (4.9)
Contribution: Created course content and format.

Course title: Sport, Culture, and Society (PEDS 7220)
Year: Fall 2003 (4.6)
Contribution: Created course content and format.

Course title: Society and Natural Resources (FORS 3810)
Contribution: Co-Created course content and format.

Course title: Tourism and Sustainable Development (FORS 7930/5930)
Year: Fall 2005 (4.3), Fall 2006 (4.6), Fall 2007
Contribution: Created course content and format.

Course title: Introduction to Outdoor Recreation and Natural Resources (FRES 1020)
Year: Spring 2006
Contribution: Created course content and format.

Course title: Issues in Natural Resources and Conservation (FRES 1020)
Year: Fall 2007
Contribution: Created course content and format.

Course title: Teaching Practicum (FORS 8300)
Year: Spring 2006 (4.5), Spring 2007 (4.8)
Contribution: Created course content and format.

Course title: Internship Program (RLST 5700)
Year: Spring 2006
Contribution: Monitored Students Internship and Grade final reports.
Study Abroad Programs at the University of Georgia:
Course title: Sustaining Human Societies and the Natural Environment (FORS 4271/6271)
Year: Maymester 2005 (May 11- June 4, 2005), New Zealand (35 students)
Contribution: Field Instructor

Course title: Sustaining Human Societies and the Natural Environment (FORS 4271/6271)
Year: Maymester 2006 (May 14- June 6, 2006), New Zealand (32 students)
Contribution: Field Instructor

Courses Taught at Other Universities:
University: Clemson
Course title: Introduction into Sport(s) Management (PRTM 254)
Year: Fall 2004 (4.6)
Contribution: Created course content and format.

Interactive Learning Tools:
Course title: Research and Evaluation in Recreation and Leisure Studies (RLST 4900)
Year: 2001-2
Contribution: Developed an on-line interactive (Web Ct) course and interactive distance learning CD

SCHOLARLY ACTIVITIES
Journal Articles:
* Denotes abstract/manuscript published after editorial peer refereed review.


on recreation and the environment. *Journal of Park and Administration*, 22 (2), 84-100.


**Electronic Articles:**


**Book(s):**


**Book Chapters:**


*Cordell, H. K., & Green, G. T. (2001). Sustaining outdoor recreation in the United States. In:

**Book Review(s):**

**Technical Reports (Peer Refereed-Reviewed):**


**Other Publications:**

and the University of Georgia: Athens, GA (p. 1-375).


Work Submitted:

examination of perceived constraints to outdoor recreation. *Journal of Public Affairs and Issues.*


**Academic Research Abstracts, Papers, and Presentations in Symposia and Conferences:**


*Bhattacharya, K., Tarrant, M., Raychaudhuri, U., & Green, G. T. Creating a student-oriented


*Cordell, H. K., Green, G. T., & Stephens, R. Outdoor recreation and the 21st century American


**Academic Editing and Reviewing:**
- Associate Editor for Journal of Parks and Recreation Administration (since 2004)
- Associate Editor for International Journal of Wilderness (since 2005)
- Associate Editor for Schole (2002-05)
- Guest Reviewer for World Leisure Journal (since 2003)
- Guest Reviewer for Environmental Management (2004)
- Reviewer for Journal of Forestry (since 2005)
- Reviewer for South-Eastern Recreation Resource Conference (since 2000)
- Reviewer for grant proposals for the National New York Sea Grant Program (2006)
- Guest Reviewer for Tourism Management (New Zealand) (2007)

**Funded Grants and Contracts:**
- Miller, C. A., & Green, G. T. Established a grant for $23,646 between the Daniel B. Warnell School of Forest Resources and Georgia’s Department of Natural Resources entitled an assessment of Anglo and Hispanic/Latino perceptions of constraints, uses, and opportunities of Georgia State Parks. Submitted 2007.

- Green, G. T., & Miller, C. A. Established a grant for $31,689 between the Daniel B. Warnell School of Forest Resources, University of Georgia and the Georgia Forestry Commission entitled to develop a recreation land planning framework and process for Georgia Forestry Commission’s land planners. Funded 2007.

- Green, G. T. Established cooperative agreement for $89,020 between the Daniel B. Warnell School of Forest Resources, University of Georgia and the U.S.D.A. Forest Service entitled to assist in the development of a research plan that would provide valid outdoor recreation participation levels for the Appalachian Trail. Funded 2006/07.

- Green, G. T. Established cooperative agreement for $47,547 between the Daniel B. Warnell
School of Forest Resources, University of Georgia and the U.S.D.A. Forest Service entitled recreational and environmental interests of the American public: A cooperative research proposal-phase II. To investigate American’s outdoor recreation participation and trends, and their environmental attitudes towards public lands. Funded 2006.

Green, G. T. Submitted a grant for $22,106 between the Tennessee Valley Authority and the Daniel B. Warnell School of Forestry and Natural Resources to examine outdoor recreation participation and trends for Tennessee and its market region. Funded 2006/2007.

Green, G. T. Submitted a grant for $31,620 between the American Canoe Association and the Daniel B. Warnell School of Forestry and Natural Resources to identify gaps in the current system of paddlesport education, instruction and information, and to identify methods to close those gaps. Funded 2006.

Cordell, H. K., & Green, G.T. Submitted a cooperative agreement for $125,000 between the United States Coastguard and the U.S.D.A. Forest Service to examine attitudes and preferences of boat operators for navigational informational related to safety. Submitted 2006.

Cordell, H. K., & Green, G.T. Established a cooperative agreement for $99,000 between the Environmental Protection Agency and the U.S.D.A. Forest Service to investigate people’s trips related to outdoor recreation activities with particular regard to agricultural, farm, and tourist designated sites. Funded 2006.

Green, G. T. Established a grant for $5,000 between the Tennessee Valley Authority and the Daniel B. Warnell School of Forest Resources to examine the motivations or drivers behind people’s participation in outdoor recreation activities. Funded 2005.

Green, G. T. Established a grant for $34,320 between the Daniel B. Warnell School of Forest Resources and Georgia’s Department of Natural Resources entitled to examine social, demographic and recreation trends for the state of Georgia based upon data from the National Survey on Recreation and the Environment. Funded 2005.

Green, G. T. Established cooperative agreement for $5,000 between the Daniel B. Warnell School of Forest Resources, University of Georgia and the U.S.D.A. Forest Service entitled an examination of the attitudes, preferences, and behaviors of residents of southern municipalities towards urban forests and their use. Funded 2005.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $7,500 between Indiana’s Department of Natural Resources and the U.S.D.A. Forest Service to conduct research on Indiana’s resident’s outdoor recreation activities and participation trends. Funded 2005.

Green, G. T. Established cooperative agreement for $65,000 between the Daniel B. Warnell School of Forest Resources, University of Georgia and the U.S.D.A. Forest Service entitled a survey of the recreational and environmental interests of the American public:
A cooperative research proposal-phase I. To investigate American’s outdoor recreation participation and trends, and their environmental attitudes towards public lands. Funded 2005.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $5,000 between the Missouri Department of Natural Resources and the U.S.D.A. Forest Service to conduct research on Missouri’s resident’s outdoor recreation activities and participation trends. Funded 2005.

Green, G. T. Established a grant for $20,000 between the National Park Service, Fermata Incorporated, the University of Georgia Research Foundation, and the Warnell School of Forest Resources to examine the motivations or drivers behind people’s participation in outdoor recreation participation. Funded 2004/2005.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $50,211.20 between the Wisconsin Department of Natural Resources and the U.S.D.A. Forest Service to conduct research on Wisconsin’s resident’s outdoor recreation participation, quality of recreation resources, and customer satisfaction on land management practices. Funded 2004/2005.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $4,000 between Fermata Incorporated, Texas., the State of Pennsylvania, and the U.S.D.A. Forest Service to create and produce a report on outdoor recreation participation trends and related environmental issues in the State of Pennsylvania as part of the state’s environmental and tourism plan. Funded 2004.

Cordell, H. K., & Green, G.T. Established cooperative agreements for $17,100 (total) with the States of California, Connecticut, Missouri, and Vermont the U.S.D.A. Forest Service to create and produce reports on the demand and trends of outdoor recreation participation in each state as part of each state’s SCORP plan. Funded 2004.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $10,000 between the Bureau of Land Management (BLM) and the U.S.D.A. Forest Service to investigate people’s outdoor recreation participation in regard to BLM’s public lands. Funded 2003/4.


Cordell, H. K., & Green, G.T. Established cooperative agreements for $15,500 (total) with the States of Texas, Nevada, Delaware, South Dakota, Colorado, and Tennessee and the U.S.D.A. Forest Service to create and produce reports on the demand and trends of
outdoor recreation participation in each state as part of each state’s SCORP plan. Funded 2003.


Cordell, H. K., & Green, G.T. Established cooperative agreement for $15,000 between the Economic Research Service (ERS) and the U.S.D.A. Forest Service to investigate people’s outdoor recreation participation with particular regard to agricultural and farm related activities, and related travel costs. Funded 2002.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $35,000 between the USDA National Symbols Program and the U.S.D.A. Forest Service for research pertaining to Adult’s knowledge and perception of the Woody’s Owl environmental Program for children. Funded 2002.

Cordell, H. K., & Green, G.T. Established a proposal for $30,000 from the U.S.D.A. Forest service for a social assessment of the environmental attitudes, values and opinions of people residing with the Southern Appalachians mountain range. Funded for 2002.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $28,000 between the National Scenic and Historical Byways Research Center and the U.S.D.A. Forest Service for research pertaining to people’s knowledge and experience of scenic byways. Funded 2001.

Cordell, H. K., & Green, G.T. Established cooperative agreement for $35,000 between the Environmental Protection Agency (EPA) and the U.S.D.A. Forest Service for research pertaining to children’s and adult’s bicycling safety issues. Funded 2001.

**Recognition and Outstanding Achievements:**

Recognized as an *Outstanding Teacher* by the Warnell School of Forestry and Natural Resources (April, 2007).

Received award for *Outstanding Research, Scholarship, and Project Management for the National Survey on Recreation and the Environment* from the United States Forest Service (January 2007).

Received *Professor of the Year Award* from Xi Sigma Pi for Outstanding Teaching Amount Award $1,000 (April 2006).

Received *Certificate of Membership in Recognition of High Scholarship, Outstanding Achievement, or Service* from Gamma Sigma Delta (April 2006).

Received award for *Outstanding Research Management and Liaison on the National Survey on*
Recreation and the Environment from the United States Forest Service (February 2002).

Academic mentor and tutor for the Georgia athletics program, assisting undergraduates in their academic classes and course work.

Represented the University of Georgia’s student body on the Academic Dishonesty Panel. Listened to evidence of students’ misconduct and assigned sanctions when appropriate.

Professional and Industry Related Research Abstracts, Papers, and Presentations:


Green, G.T. Recreation trends for program development. Fairfax County Park Authority: Ahead of the Curve. Fairfax County Government Center, Fairfax, VA. April 8, 2005. [Keynote Speaker]


Green, G. T., Cordell, H. K., & Tarrant, M. A. The impact of people’s participation in outdoor recreation activities on nature-based tourism in Georgia. Georgia Nature-Based Tourism Association. Madison, GA. January 18-19, 2005. [Invited Speaker]

Green, G. T., & Cordell, H.K. Implications of socio-demographic and outdoor recreation participation trends for Georgia’s Department of Natural Resources and their state parks. Georgia’s Department of Natural Resources, Regional Strategic Meeting. Atlanta, GA. January 13, 2005. [Invited Speaker]


*Green, G. T., Cordell, H. K., & Stephens, R. Water-based recreation participation trends. *International Boating and Water Safety Summit*. Panama City Beach, FL, April 18-21, 2004. [Abstract] [Keynote Speaker]


Cordell, H. K., & Green, G. T. Outdoor Recreation and Region 5's National Forests: Using the
National Survey on Recreation and the Environment to help set recreation priorities. 
*USDA Forest Resources Conference.* San Diego, CA, December 5-6, 2001.

*Cordell, H. K., & Green, G. T. A Long-Term Study of Forest Recreation and Forest Values.* *Southern Forest Sciences Conference,* Atlanta, GA, November 26-28, 2001. [Abstract]


*Cordell, H. K., & Green, G. T. Outdoor Recreation Data and Methods for the Integration of Social and Health Sciences.* *Special Session sponsored by the Centers for Disease Control, at the Cooper Institute Scientific Conference,* Dallas Texas, October 4-6, 2001. [Abstract]

*Cordell, H. K., & Green, G. T. Translating Outdoor Participation as Health and Physical Fitness.* *Special Centers for Disease Control Panel Session at the International Whistler Conference on Communicating Physical Activity and Health Messages,* September 26-30, 2001, Vancouver, British Columbia, Canada. [Abstract]


*Cordell, H. K., & Green, G. T. Outdoor Recreation and Our National Forests.* *National Meeting of Forest Service Recreation Planners,* May 3, 2001, Baltimore MD


*Cordell, H. K., & Green, G. T. Trends and the Significance of Demographic Shifts.* *Futures Forum on Recreational Boating,* St. Petersburg, FL, April 2, 2001. [Keynote] [Abstract]

**PUBLIC AND UNIVERSITY SERVICE**

**Teaching, Outreach and Public Service Related Abstracts, Papers, and Presentations:**

*Green, G. T. Trends and driving forces.* Pennsylvania Governor’s Outdoor Conference. State College, PA, March 18-20, 2007. [Keynote Panelists] [Abstract]

Green, G. T., & Cordell, K. Connecting the passives [Sessions 1]. Pennsylvania Governor’s Outdoor Conference. State College, PA, March 18-20, 2007. [Invited Speaker]

Green, G. T., Cordell, K., & Eubank, T. Connecting the passives [Session 2]. Pennsylvania Governor’s Outdoor Conference. State College, PA, March 18-20, 2007. [Invited Speaker]
Green, G. T. Connecting the passives [Session 3]. Pennsylvania Governor’s Outdoor Conference. State College, PA, March 18-20, 2007. [Invited Speaker]


Green, G. T., & Cordell, H. K. Implications of a changing America on outdoor recreation participation trends and urban sprawl: Data from the national survey on recreation and the environment. *Clemson University, Department of Parks, Recreation, & Tourism Management*. Clemson, SC, February 20, 2005. [Invited Speaker]


Green, G. T., & Cordell, H. K. Implications of outdoor recreation participation trends: Data from the national survey on recreation and the environment. *Clemson University, Department of Parks, Recreation, & Tourism Management*. Clemson, SC, February 20, 2004. [Invited Speaker]


**Professional Service:**
- Adjunct Assistant Professor – RLST Dept, University of Georgia (since 2002)
- Adjunct Assistant Professor – PRTM Dept, University of Clemson (since 2003)

**Professional Associations:**
- Gamma Sigma Delta – (Member since 2006)
- National Recreation and Parks Association – (Member 2000-05)
- Society of American Foresters – (Member since 2005)
- World Recreation and Leisure Association – (Member 1999-05)

**Faculty Committees:**
- Ad Hoc Oconee Forest Park Committee – 2006
- Art Area Display Proposal – 2004 - present
- Curriculum Committee - 2006
- Faculty Learning Communities (Visual Thinking) - 2007
- Human Dimensions Faculty Search - 2005
- Library Committee (University Wide) - 2006
- Outreach and Service (Promotion and Tenure) – 2004 - present
- Seminar Committee – 2004 - present
- Student Recruiter Staff Search - 2005
- Warnell School Editorial Advisory & External Relationships Board - 2006

**Teaching Service:**
- Academic Honesty Committee Member – University of Georgia
- Academic Panelist – Explore GA Program – University of Georgia
- Honors Faculty Mentor – University of Georgia
- Minority Recruiting Mentor – University of Georgia
- Explore Georgia Program (Academic Panel) – University of Georgia

**Student Committees:**

* Denotes Graduated
- Kyle Chapman – Master of Forestry & Natural Resources*
- Jennifer Baker – Master of Science (SUNY) *
- Brandon Burke - Master of Forestry & Natural Resources
- Daniel Van Dijk - Master of Forestry & Natural Resources (Co-chair)
- Heather Fleming - Master of Forestry & Natural Resources (Chair)
- Allison Ginn - Master of Science – WSFNR (Chair)
Jennifer Guiney - Master of Forestry & Natural Resources (Chair)
William Gosnell - Master of Forestry & Natural Resources*
Siteria Gregory – Master Science - WSFNR
Lincoln Larson – Master of Science – WSFNR (Co-chair)
Charles Maffitt – Master of Science (School of Environmental Design) *
Anne McKee – Doctor of Philosophy – WSFNR (Wildlife)
Lauren Newsome – Master of Forest Resources *
Thomas Matthew Owens – Master of Forestry & Natural Resources (Chair) *
Scott Pfeninger – Master of Forestry & Natural Resources*
Emily Saunders - Master of Forestry & Natural Resources (Chair)
Rachel Small - Master of Science – WSFNR (Chair)
Kate Spear – Master of Science – WSFNR
Tommy Tye - Doctor of Philosophy – WSFNR (Co-chair)
Christine Westburg - Master of Forestry & Natural Resources*
Andrew Zakharenka – Doctor of Philosophy - WSFNR
Jianping Zhu – Master of Science - Statistics*

**Outreach and Service Committees:**
American Canoeing Association (ACA) – Research and Grant writing Advisor
Forestry Technical Advisory Group (TAG) – Georgia Forestry Commission
Georgia’s Department of Natural Resources (GA DNR) – Recreation Planning Committee
Tennessee Valley Authority (TVA) – Strategic Recreation Planning Committee
United States Coast Guard (USGC) – Scientific Advisory Committee Member
Society of American Foresters (SAF) – Wilderness Advisory Committee
Jeffrey A. Hepinstall

PERSONAL
Place of Birth: New York City, NY     Citizenship: USA

Addresses:   Warnell School of Forestry and Natural Resources

180 Green St.
University of Georgia
Athens, GA 30602-2152
(706) 583-8097 (office)
(206) 293-3237 (cell)
jhepinstall@warnell.uga.edu

STATEMENT OF GOALS

I apply spatial data and modeling techniques to ecological and social systems to measure patterns and processes, and to explore the interactions between coupled natural and human systems. I then apply this knowledge to aid in the planning for and conservation of natural and human resources.

EDUCATION

PhD, Forest Resources 2000: Department of Forest Management, University of Maine, Orono, ME. Dr. Steven A. Sader (advisor). Creating spatially explicit predictions of land bird presence in Maine: Evaluating input data, model performance, and model output.

MS, Wildlife Ecology 1992: Department of Fisheries and Wildlife, University of Minnesota, St. Paul, MN. Dr. Peter A. Jordan (advisor). Evaluation of moose habitat using a geographic information system (GIS) and USFS data according to the Lake Superior moose habitat suitability index (HSI).

BA, Honors in Biology, Minor in Environmental Studies, 1990: Biology Department, Colgate University, Hamilton, NY. Dr. Randall L. Fuller (advisor). Limitation of periphyton by light and nutrients and the response of bacteria to these manipulations.

SKILL SET

I am a spatial modeler with fifteen years experience with GIS and image processing software packages (including extensive experience with ArcINFO/ArcGIS and Erdas Imagine) and programming experience (Python, C++, Pascal, AML). I enjoy teaching and have experience with a wide variety of pedagogical approaches including traditional classroom lectures, field courses, problem-based and case-based approaches. I have extensive experience as a consultant for undergraduate and graduate students, and faculty in application of GIS and remote sensing methods to their research. I have collaborated with local, state, federal governmental and non-
governmental organizations both nationally and internationally in interdisciplinary teaching and research capacities.

**PROFESSIONAL EXPERIENCE**

**Research**

**Aug ’06-Present**  Assistant Professor, Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia

**Sept ’05-July ’06**  Faculty Research Associate, Urban Ecology Research Laboratory, College of Urban Design and Planning, University of Washington

*Participating on two grants: 1) NSF Biocomplexity grant on the emergent properties of urban systems and 2) Future scenario development and modeling of nearshore ecosystems without restoration activities. Teaching in the Masters in Strategic Planning for Critical Infrastructures program (GIS Applications, Capstone A and B)*

**July ‘02-Sept ‘05**  Faculty Research Associate, Urban Ecology, College of Forest Resources and College of Architecture and Urban Planning, Drs. Marina Alberti and John Marzluff, supervisors, University of Washington

*Participated on two NSF grants: 1) Urban Ecology IGERT program: working with PhD students and faculty, teaching interdisciplinary courses, conducting spatial analysis workshops; 2) Biocomplexity – modeling and predicting land cover change and predicting the effects of change on ecosystem processes in the Puget Sound lowlands. Also functioning as lab manager for M. Alberti’s Urban Ecology Research Lab supervising and participating on several projects including quantifying spatial patterns of urban development; relating land use and land cover to water quality measures; and measuring impervious surfaces using data at different spatial and spectral resolutions using spectral unmixing and novel object-oriented classification techniques.*

**June’00-May’02**  Postdoctoral Scientist, Department of Wildlife Ecology, University of Maine, Orono, ME, Dr. Daniel Harrison, supervisor

*Spatially explicit predictions of American Marten occurrences in Maine and development of a marten habitat-based conservation strategy for use by commercial forest landowners in developing forest management plans. Examined the utility of American marten and Canada lynx as umbrella species for biodiversity conservation in northern Maine.*

**Teaching**

**2006, Instructor**  Spatial Information in Forest Resources. Introductory GIS, GPS, remote sensing undergraduate course required for the School. Warnell School of Forestry and Natural Resources, University of Georgia.
2005-06, Instructor: Capstone and Applied GIS courses for the Strategic Planning for Critical Infrastructures distance learning M.S. program through the Department of Urban Design and Planning at the University of Washington.

2002-05 Co-instructor: Urban Ecology 3-course (3 quarters) core course series. Graduate and upper-level undergraduate courses, team-taught by the Urban Ecology faculty and post-doctoral students.

2002-05, Instructor: Multiple two-day GIS intensive workshops for graduate students in the Urban Ecology and Urban Design and Planning programs at the University of Washington.

GRANTS and CONTRACTS

2005-2009 M. Alberti (PI) and others (including J. Hepinstall, Research Associate), National Science Foundation Biocomplexity Program ($1.4 million). Urban landscape patterns: complex dynamics and emergent properties.


2005 Contract, Department of Wildlife Ecology, University of Maine. $4,000, Dr. Daniel Harrison, PI. Modeling American Marten habitat in Newfoundland.


2004-2005 M. Alberti (PI) and J. Hepinstall, King County – Department of Natural Resources ($187,000). Land cover change model for central Puget Sound.

2004 Contract, Department of Wildlife Ecology, University of Maine. $10,000, Dr. Daniel Harrison, PI. Utility of American marten and Canada lynx as umbrella species for biodiversity conservation in northern Maine.

2004 Contract, Department of Inland Fisheries and Wildlife, State of Maine, $400. Habitat modeling and consulting on American Marten Habitat Assessment Plan.

RECENT REFEREED PUBLICATIONS


RECENT TECHNICAL PUBLICATIONS AND REPORTS


RECENT CONTRIBUTED PAPERS, with presentations (sample of over 40 talks given)


Hepinstall, J.A. 2007 Predicting land cover change and its consequences for avian species richness and abundance in the Central Puget Sound, Washington, USAInvited Seminar, Geomatics Colloquium, Humboldt University, Berlin.


SERVICE
(a) Memberships of Professional Societies
   Society for Conservation Biology
   Ecological Society of America
   US-IALE (International Association of Landscape Ecology)
   The Wildlife Society

(b) Reviewer for:

(c) Graduate Student Committees
Michael Parrish, MS Graduate committee chair; Andrew Grosse, MS Graduate committee member; Daniel Green, MS Graduate committee member; Kate Seader, MFR Graduate committee member; Rai Hayashi, MS Graduate committee member, Clarke Jones, MS Graduate committee member; Yong Steve Carpenedo, PhD Graduate committee member; Michael Bender, PhD Graduate committee member, William Webb, PhD Graduate committee member
CURRICULUM VITA

Daniel Markewitz
Associate Professor of Forest Soils
D.B. Warnell School of Forest Resources
The University of Georgia
Athens, GA 30605
706-542-0133
dmarke@forestry.uga.edu

1. Academic and Professional History

Education
Ph.D., Department of Environment, Duke University, May, 1996.
M.E.M., School of Forestry and Environmental Studies, Duke University, 1991.
B.S., School of Natural Resources, University of Michigan, Ann Arbor, 1986.

Professional Experience (University of Georgia):
Associate Professor of soil/site productivity.  D.B. Warnell School of Forest Resource, The University of Georgia, Athens, GA. July 2003 – present (80 % Research/20% teaching)
Assistant Professor of Soil/site productivity.  D.B. Warnell School of Forest Resource, The University of Georgia, Athens, GA. March, 1998 – June, 2003

Professional Experience (Other):
Post-Graduate Awards:
Xi Sigma Pi – Forest Resources Honor Society, University of Michigan, admitted May 1986

2. Scholarly Activities:

a. Publications
** denotes invited submission
* denotes peer review

Works Submitted:


Parron, Lucilia Maria, M. Maria Cunha Bustamante, and D. Markewitz. 2006. Fluxes of nitrogen and phosphorus in a gallery forest in the cerrados of central Brazil:

Belk, E, D Markewitz, TC Rassmussen, EJ Maklouf Carvalho, DC Nepstad, and EA Davidson. 2007. Modelling the effects of throughfall reduction on soil water content in a Brazilian Oxisol under a moist tropical forest. Water Resources Research, in review.


Books Authored:


Books Edited:

None

Chapters in Books:


Journal Articles:


87
plantations in the lower coastal plain of Georgia. Forest Ecology and Management, 192:21-37.** *, *


Proceedings:
Bulletin:


Other:


Abstracts:

(Invited)

(Volunteered)


**b. Other creative contributions:**

*Website*
Carbon Trading  [http://carbon.sref.info](http://carbon.sref.info)

*Forest Assessment Tool*
Forest Ecosystem Rapid Assessment Scorecard  D. Markewitz, S. Madson, T. Hinckley. 50 p manual, training DVD, and flash media scorecard.

*(Model development)*
Co-developing {w/L. Morris(UGA-WSFR), D. Nute, and N. Ruston (UGA-Artificial Intelligence), and J. Vose (USDA-Forest Service)} a nitrogen based forest growth model to be used by landowners to help manage long-term forest productivity.

*(Invited keynote speaker)*
CO₂ driven cation leaching after tropical forest clearing. August 2005. 7th International Symposium on Surface Geochemistry, Aix-en-Provance, France

*(Invited Seminars)*
Legacies of land use change in soils from the southeastern USA and the eastern Amazon. 2001. Warnell School of Forest Resources Seminar Series, The University of Georgia, Athens, GA.

c. **Research Grants Received**

*(Competitive)*


Carbon Trading: A primer for landowners. 2006-2007. $50,000. National Commission on Science for Sustainable Forestry. {D Markewitz}

Initiating a Partnership Among University, Business and Non-Profit Organizations to Develop Working Forests in the Amazon. 2004. $5,000. University of Georgia. Office of the Vice President for Public Service and Outreach, International Development Education Awards (IDEAS) Program {D Markewitz and L Morris}

Dynamics of Biogeochemical Cycles in Secondary Vegetation of Amazonia. 2002-2005. $300,000. NASA – Largescale Biosphere Atmosphere Project in Brazil. {E.A. Davidson with 7 other co-investigators}


Collaborative research: Drought effects on moist tropical forests: A throughfall reduction experiment in Amazonia. 2002-2007. $1,184,000. National Science Foundation. {D.C. Nepstad, E.A. Davidson, and D Markewitz}


Quantifying relations of foliar chemistry and spectral reflectance: A future plan for improving fertilization efficiency of plantation forests from space. 2000-2002. $18,444. Georgia Space Program {D. Markewitz and R.E. Will}

The effects of rainfall exclusion on an Amazon forest. 2000-2002. $430,000 National Science Foundation Ecosystem Studies. {D.C. Nepstad with five other co-investigators}

Collaborative research on biogeochemical transfers among terrestrial and aquatic biospheres and the atmosphere in forests and pastures of eastern Amazonia. 1998-2001. $280,000. NSF Program in Environmental Geochemistry and Biogeochemistry. {E.A. Davidson, D Markewitz, and T. Dunne}

The effects of fertilization and competition control on carbon and nutrient allocation and physiology in loblolly pine plantations. 1998-2001. $268,000. (w/R. Hendrick (PI), R.O. Teskey, R.E. Will, T. Harrington, B. Borders {UGA}). {I did not participate in the writing of this grant but took over responsibilities for the soil component of this research}

(Non-competitive)

Carbon sequestration in managed loblolly pine forests in the Southeastern United States. 1999-2003. Cooperative agreement with USDA Forest Service $84,000. (w/R.O. Teskey (PI), R. Will, D. Daniels, L. Morris{UGA}).


Polyacrylamide (PAM) as an effective treatment for minimizing erosion from disturbed piedmont soils. 2000-2001. $9,000. SE Erosion Control Inc., Atlanta, GA.
Polyacrylamide (PAM) as an effective treatment for minimizing erosion from disturbed piedmont soils. $19,988. Georgia Power.

(Industry cooperative)
Consortium for Accelerated Pine Productivity Studies. ~$100,000 annual budget. UGA-Warnell School of Forest Resources. (serve as co-PI)

(Formula funding)
The sustainability of soil productivity in intensively managed forest plantations. 1998-2004. $54,000 USDA McIntire-Stennis.

3. Resident Instruction and Continuing Education:

Undergraduate Courses Taught:

Forest Ecology (FORS 3020/3020L)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Credit hours</th>
<th>Enrollment</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>Fall</td>
<td>4</td>
<td>15</td>
<td>90%</td>
</tr>
<tr>
<td>2002</td>
<td>Fall</td>
<td>4</td>
<td>28</td>
<td>90%</td>
</tr>
<tr>
<td>2003</td>
<td>Fall</td>
<td>4</td>
<td>22</td>
<td>100%</td>
</tr>
<tr>
<td>2006</td>
<td>Spr</td>
<td>4</td>
<td>35</td>
<td>90%</td>
</tr>
<tr>
<td>2007</td>
<td>Spr</td>
<td>4</td>
<td>23</td>
<td>80%</td>
</tr>
</tbody>
</table>

Sustainable systems in Brazil (AESC 3150)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Credit hours</th>
<th>Enrollment</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>Sum</td>
<td>3</td>
<td>10</td>
<td>50%</td>
</tr>
<tr>
<td>2005</td>
<td>Sum</td>
<td>3-6</td>
<td>10</td>
<td>50%</td>
</tr>
</tbody>
</table>

Special problems (FORS 5920)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Credit hours</th>
<th>Enrollment</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>Spr</td>
<td>5</td>
<td>1</td>
<td>100%</td>
</tr>
</tbody>
</table>

Graduate Courses Taught:

Science of Sustainability (FORS 7870)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Credit hours</th>
<th>Enrollment</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>Spring</td>
<td>2</td>
<td>7</td>
<td>100%</td>
</tr>
</tbody>
</table>

Directed research (FORS 8983)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Credit hours</th>
<th>Enrollment</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>Spring</td>
<td>3</td>
<td>1</td>
<td>100%</td>
</tr>
</tbody>
</table>
4. Recognition and Outstanding Achievements:

Co-authored book was recently favorable reviewed in Nature, February 2002.


7. Areas of Research

1. Forest productivity and nutrient cycling.

2. Long-term sustainability of soil productivity.

3. The effects of land use change on biogeochemical cycles.

8. Supervision of Student Research:

Theses Directed:

(Completed)
  Fabio Sartori (PhD) 2004
  Joshua Paul Price (MS), 2001
  Rebekah Lillian Glazer (MS), 2001
  Elizabeth Belk (MS), 2002

(Current)
  Marco Galang (PhD)
  Brian Adams (MS)
  Aaron Joslin (MS)
  Scott Devine (MS)
  Sami Rifai (MS)
  Luke Worsham (MS)

Graduate Committees Service:

(Completed)
  Noah Fraser (MS), Forestry and Natural Resources, 2006
  Audrey Owens (MS), Wildlife, UGA, 2006
  Marion Lincoln (MS), Forest Resources, UGA, 2005
Tracy Crocker (MS), Forest Resources, UGA, 2002.
Rick Hamrick (MS), Wildlife, UGA, 2002.
Nurul Winarni (MS), Wildlife, UGA, 2002.
Steve Panfil (PhD), Botany, UGA, 2001.
Julio Carlos Franca Resende (PhD), Ecology, Universidade Federal de Brasilia, 2001
Dean Francis Meason (MS), Forest Resources, 2001.

(Current)
Jason Austin (PhD) Geology, UGA
Rick Rietz (PhD) Forestry and Natural Resources, UGA
Jose Salamao (PhD) Ecology, Universidade Federal de Brasilia
Bruno Furtado (MS) Forestry and Natural Resources, UGA

Postdoctoral Scholars Advised or Hosted

Dr. Gary Rachel, School of Forest Resources, University of Georgia, advised Oct 2005 to June 2006.

Dr. Stephanie Madson, Institute of Ecology, University of Georgia, advised August 2003 to August 2005

Dr. Ricardo de O. Figueiredo, Instituto de Pesquisas Ambientais da Amazônia. Hosted visiting scientist February 5 –22, 2002

9. Journal Editorship

Associate Editor for Soil Science Society of America Journal, January 2005-present.
Assistant Editor for Hydrological Processes Special Issue Nov. 2004 to Present

(Ad hoc Reviewer)
Biogeochemistry 2005


h. Convention Papers

*(Invited)*


*(Volunteered)*


96


Service Presentations

**Grow Green Coalition**


American Fiber and Paper Association

Service for Regional, National, and International Scientific Meetings
Organizer Special Session on “Soil Control on Stream Biogeochemistry” III Largescale Biosphere Atmosphere Scientific Conference, 26-28 July 2004, Brasilia


Moderator for poster session “Soil carbon dynamics in forest, range, and grassland soils”, Soil Science Society of America annual meeting, Indianapolis, IN Nov. 2002.

Co-organizer for portion of Forest Soils field tour. Nov. 2001. Soil Science Society of America annual meeting, Charlotte, NC.

Continuing Education
Forestry Advanced Specialty Area Training (FASAT IV), Athens, GA, April 8-11, 2002.

4. Other Services

D.B. Warnell School of Forest Resources Committees:

(Standing)
Lands Committee (2002-present)
Seminar Committee (2002-present)
Research Coordination and Review (2001-present)

(Ad-hoc)
Long-term research subcommittee (2004)

**University of Georgia Committees:**


Ecosystem Ecologist search committee, Institute of Ecology 2004

**Service to Other Universities and Organizations:**

Duke University, Nicholas School of the Environment and Earth Sciences, Alumni Council (2001-2005)

**Membership in Professional Societies:**

Ecological Society of America
International Union of Soil Scientists
Society of American Foresters
Soil Science Society of America
1. ACADEMIC HISTORY

- **Name:** Michael T. Mengak
- **Present Rank:** Associate Professor
- **Recommended Rank:** N/A
- **Proportion Time Assignments:** 50% Teaching; 50% Service
- **Tenure Status:** Tenured (2006)
- **Administrative Title:** None
- **Graduate Faculty Status:** Member since 2001
- **Highest Degree:** Doctor of Philosophy, Clemson University, 1987
- **List of Academic Positions:**
  - Associate Professor-Wildlife Specialist. Warnell School of Forest Resources, University of Georgia, Athens, GA. July 2005 to present.
  - Assistant Professor-Wildlife Specialist. Warnell School of Forest Resources, University of Georgia, Athens, GA. August 2001 to July 2005.
  - Professor of Forestry and Wildlife. Division of Life Sciences, Ferrum College, Ferrum, VA. August 1999 to August 2001.
- **Post-graduate Awards**
  - UGA Collegiate FFA – Distinguished Service Award (2003).

2. RESIDENT INSTRUCTION and CONTINUING EDUCATION

- **University of Georgia**
  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 1100</td>
<td>Natural Resource Conservation</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 4340/6340</td>
<td>Nongame &amp; Endangered Species Management</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 4900/4900L</td>
<td>Wildlife Damage Management</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 4930/6930</td>
<td>Wildlife Ecology and Management</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 5930/7984</td>
<td>Special Topics: Wildlife Ecology and Management for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 6900/6900L</td>
<td>Wildlife Damage Management</td>
<td>3 credits</td>
</tr>
<tr>
<td>FORS 8300</td>
<td>Fish and Wildlife Seminar (Ecotourism)</td>
<td>1 credit</td>
</tr>
</tbody>
</table>

- **Academic Advising**
  - Advising load averages 10 undergraduate students in the professional curriculum per semester.
  - Graduate student advising: Major Professor to 4 M. S. candidates and 3 M.F. R. candidates; Committee Member for 2 M. S. candidates and 1 Ph.D. candidate.

3. SCHOLARLY ACTIVITIES


** Publications which were invited and which carry prestige and recognition and have gone through stringent editorial review.

4. Monographs


5a. Journal Articles


  2001.  Fire impacts to small mammals in Piedmont oak-shelterbelts.  Proceedings of 
  the Annual Conference Southeastern Association of Fish and Wildlife Agencies 
  55:375-381.
* Publications which have gone through stringent peer-refereed process.

5b. Conference Proceedings

  Goose relocation in Georgia.  Pages xxx-xxx in D. L. Nolte (editor).  Proceedings of 
  the 12th Wildlife Damage Management Conference, Corpus Christi, TX.
  Efficacy of Milorganite® as a repellent to protect ornamental and agronomic plants 
  from deer over-browsing.  Pages 163-170 in D. L. Nolte and K. A. Fagerstone, 
  editors.  Proceedings of the 11th Wildlife Damage Management Conference, Traverse 
  City, MI.
** Mengak, M. T., and S. B. Castleberry.  2004.  Wildlife Management Issues and 
  county FASAT agents.  Pages 7-15 in K. A. Fagerstone and G. Witmer, editors.  
  Proceedings of the 10th Wildlife Damage Management Conference, Hot Springs, AR.
* Mengak, M. T., and D. I. Hall.  2003.  Wildlife damage management class and curriculum 
  at the University of Georgia.  Pages 174-180 in K. A. Fagerstone and G. Witmer, 
  editors.  Proceedings of the 10th Wildlife Damage Management Conference, Hot 
  Springs, AR.

** Invited paper.
* Publications which have gone through stringent editorial review.

6. Bulletins or reports

Linehan, J. M. and M. T. Mengak.  2006.  Inventory of the mammalian species at Vicksburg 
  National Military Park, Vicksburg, MS.  Final Report for Gulf Coast Inventory and 
Mengak, M. T. and K. V. Miller.  2002.  Effectiveness of Eucalyptus mulch as a deer 
  repellent for protecting suburban plantings.  Final Report for Corbitt Manufacturing, 
  Lake City, FL.  13 October 2002.  6 pages.
Mengak, M. T.  2002.  Analysis and summary of eleven years of Allegheny woodrat 
  Department of Game and Inland Fisheries, Richmond, VA.  11 December 2002.  52 
  pages.

7. Abstracts – published in conference proceedings


8. Book reviews


9. Works Submitted


* Winchester, C., S. B. Castleberry, and M. T. Mengak. (In review). Foraging microhabitat and nest site selection by the endangered Key Largo woodrat. Submitted to *Journal of Mammalogy*.

* Peer-refereed

10. Any Other – Technical Journals, Trade Journals, Mass Media, Newspaper


* Invited Article

**b. Grants Received** – all grants are to M. T. Mengak as Principal Investigator unless otherwise noted.

1. **Service/Research – University of Georgia** - ($367,810)

   **2006**

   US Fish and Wildlife Service – “A Protocol for Monitoring Key Largo Cotton Mouse (*Peromyscus gossypinus allapaticola*) Population Status” ($75,000) (Co-P.I. S. B. Castleberry)

   Berryman Institute – Eastern Unit – “Movements, intraspecific competition, and natural history of the armadillo in Southwest Georgia” ($5,500)

   **2005**

   Georgia Forestry Commission – “Forestry and Wildlife Education Programs for Private Landowners in Georgia.” ($11,444)


   **2004**

   US Fish and Wildlife Service – “Habitat characterization in hurricane impacted areas of hardwood hammock of the Florida Keys.” ($93,556) (Co-P.I. S. B. Castleberry (50%), WSFR – UGA)

   National Park Service, Gulf States Cooperative Ecosystem Study Unit (CESU) – “Mammal Community Survey at Vicksburg National Military Park (VICK-NMP), Vicksburg, MS ($69,079)

   UGARF – Office of Vice President for Research - “Effectiveness of chemical repellants to deter deer browsing on forage crops and landscape plants.” ($4,525)

   Berryman Institute - Eastern Unit - “Food habits, bait acceptance, and natural history of the nine-banded armadillo in southwest Georgia.” ($15,100)

   Berryman Institute – Eastern Unit – “Wildlife Damage Management Training Program.” ($8,250)

   **2002**
Corbitt Manufacturing, Lake City, FL – “Effectiveness of eucalyptus mulch as a deer repellent for protecting suburban plantings.” ($2,000)
The Nature Conservancy - Mammal Survey in West Virginia. (Co-P.I. S. B. Castleberry (50%), WSFR – UGA)
Virginia Department of Game and Inland Fisheries - “Summary, analysis and recommendations of 11-years trapping and monitoring data on the Allegheny woodrat in Southwest Virginia.” ($4,000)

2001
USDA Forest Service - Challenge Cost Share Grant from George Washington and Jefferson National Forests for the project “Results of Ten Years of Allegheny Woodrat Trapping in Southwest Virginia.” ($2,500)

2. Teaching – University of Georgia – ($36,763)

2005
Berryman Institute – East, Mississippi State University Undergraduate or Postgraduate Internship. ($10,100)

2004
USDA Forest Service – “Developing the Theoretical and Practical Basis for Using Ecological Principles in Nonformal Environmental Education Evaluation.” ($9,000)
Berryman Institute – East, Mississippi State University Undergraduate or Postgraduate Internship. ($9,413)

2003
Berryman Institute – East, Mississippi State University Undergraduate or Postgraduate Internship. ($8,250)

d. Recognitions and Outstanding Achievements

Awards – University of Georgia

2006 Southern Regional Extension Forestry – Award for Excellence – Mixed Media – General Audience for the publication “Dealing with Nuisance Wildlife” publication and PowerPoint presentation.

2003 UGA Chapter – FFA – Distinguished Service Award
e. Areas in which research is done

- Ecology and natural history of the nine-banded armadillo
- Efficacy of chemical repellents to deter deer browsing
- Ecology and natural history of the Allegheny woodrat and Key Largo woodrat
- Small mammal ecology and forest management
f. Supervision of student research

- Doctor of Philosophy - Committee Member
  Gino D’Angelo (2004-2007) – University of Georgia
  Steven Castleberry (1997-2000) – West Virginia University

- Master of Science
  - Major Professor
    Jennifer Linehan, M. S. (May 2007) – University of Georgia
      - Employed by Jones Ecological Research Center, Newton, GA –
        Research Coordinator
    Janet Forest, MFR (May 2007) – University of Georgia
      - Employed by Valdosta State University – Biology Instructor
    Katherine Mordecai (In progress) – University of Georgia
      - Employed by US Forest Service, Athens, GA
  
  Chris Winchester, M. S. (August 2007) – University of Georgia
    - Employed by Yulista Management Co. (consultants) on Sonoran
      Pronghorn Antelope Recovery Project, AZ – Research Technician
  Danny Gammons, M.S. (December 2006) – University of Georgia
    - Recipient of UGA University-Wide Assistantship
    - Ph.D. student, University of Tennessee, Knoxville
  Stacey Vigil, MFR (August 2006) – University of Georgia
    - Recipient of UGA University-Wide Assistantship
  Leif Stephens, MFR (May 2006) – University of Georgia
    - Employed by USDA Wildlife Services – Wildlife Biologist
  Holly Rutledge, M.S. (August 2005) – University of Georgia
    - Employed by Gwinnett County School – Advanced Biology Teacher
    - Ph.D. student, UGA, College of Education
  Odin Stephens, M.S. (May 2005) – University of Georgia
    - Co-advisor: Dr. K. V. Miller
    - Recipient of WSFR School-Wide Assistantship
    - Employed by USDA Wildlife Service – Wildlife Biologist
  Daniel Green, M. S. (In progress) – University of Georgia
    - Co-advisor: Dr. S. B. Castleberry
  Talmedge Robinson, MFR (In progress) – University of Georgia
    Parker Barnett (In progress) – University of Georgia
    - Committee Member
    Charles Killmaster, completed December 2005 – University of Georgia
    Liberty Moore, completed May 2004 – University of Georgia

g. Editorship or editorial board member of journals or other learned publications

- Associate Editor – Wildlife, Southern Regional Extension Forest Resources
  Publication Series. Peer-reviewed online publication system of Cooperative
  Extension Service-Southern Region – 2004 to present
o Moderator, TWS Annual Conference, Burlington, VT - 2003
o Reviewer for TWS Annual Conference – 1999, 2003
o Guest Editor for the regional journal *Southeastern Naturalist* – 2003
o Reviewer for the international journal *Animal Biodiversity and Conservation* (Spain) – 2002
o Reviewer for the international journal *Journal of Forest Research* (Japan) - 2005
o Reviewer for the national journal *Human-Wildlife Conflicts* – 2005, 2006
o Reviewer for the regional journal *Southern Journal of Applied Forestry* - 2006
o Reviewer for the regional journal *Northeastern Naturalist* - 2004
o Reviewer for the regional journal *Estuaries* – 1989
o Reviewer for Technical Publication of Georgia DNR, Wildlife Resources Division – 2004

h. Convention Papers (Conference Presentations)


Winchester, C., S. B. Castleberry, and **M. T. Mengak**. 2006. Preliminary population estimates and macro-habitat study for the endangered Key Largo Woodrat (Neotoma floridana smalli). Colloquium on the Conservation of Mammals in the Southeastern United States, Chattanooga, TN.


*Mengak, M. T.* 2005. Wildlife damage management training program in Georgia. 1st Annual Symposium, Jack H. Berryman Institute, Logan, UT.


*Mengak, M. T.* and D. I. Hall. 2003. Wildlife damage management class and curriculum at the University of Georgia. 10th Wildlife Damage Management Conference, Hot Springs, AR. April 2003


Annual Colloquium on Conservation of Mammals in the Southeastern United States. Guntersville State Park, AL.

* Presentations marked with asterisk had abstract published in conference proceedings.

i. Posters


* Posters are peer reviewed before acceptance at Conference.

4. PUBLIC SERVICE

a. Publications and Reports Public Service and Outreach Publications

1. Extension Book Chapters (peer reviewed)


2. Extension Bulletins (peer refereed)


3. Extension Circular (peer refereed)


4. Extension Leaflets (peer refereed)


5. Extension Programs and Continuing Education – AV Presentations

6. **WSFNR - Natural History Series (peer reviewed)**

6a. **Author**

Vigil, S. and **M. T. Mengak.** 2006. American Toad (*Bufo americanus*). WSFNR Natural History Series No. 7. 6 pages.

**Mengak, M. T.** 2005. Nine-banded armadillo (*Dasypus novemcinctus*). WSFNR Natural History Series No. 4. 8 pages.


**Mengak, M. T.** 2002. Key to the adult terrestrial mammals of the Southeastern United States. WSFNR Natural History Series No. 2. 12 pages.

**Mengak, M. T.** 2001. Copperhead. WSFNR Natural History Series No. 1. 5 pages.

6b. **Editor**

Vigil, S. 2006. Brown Watersnake (*Nerodia taxispilota*). WSFNR Natural History Series No. 5. 5 pages.


7. **WSFNR - Wildlife Management Series (peer reviewed)**

7a. **Author**

**Mengak, M. T.** 2006. Food plots for deer on CRP pine and other sites. WSFNR Wildlife Management Series No. 10. 7 pages.


7b. Editor


8. WSFNR – Web Publication Series (peer edited)


9. UGA Georgia Center for Urban Agriculture – Fact sheets (peer reviewed)

Copperhead - http://apps.caes.uga.edu/urbanag/Home&Garden/indexFS.cfm?storyid=2681

Using Milorganite Ornamentals - http://apps.caes.uga.edu/urbanag/Home&Garden/indexFS.cfm?storyid=2682

Using Milorganite Food Plots – http://apps.caes.uga.edu/urbanag/Home&Garden/indexFS.cfm?storyid=2689


10. WSFNR – Wildlife Fact Sheets

Black Bear in Georgia – WSFNR Wildlife Fact Sheet No. 1 (March 2007)
Ruffed Grouse in Georgia – WSFNR Wildlife Fact Sheet No. 2 (March 2007)

b. Public Service and Outreach Activities

b1. National or Regional Presentations

<table>
<thead>
<tr>
<th>Month</th>
<th>Audience &amp; Location</th>
<th>Role</th>
<th>Presentation</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>September National Master Naturalist Conference – Estes Park, CO</td>
<td>Speaker</td>
<td>Master Naturalist Program Summaries &amp; Panel Discussion on Training &amp; Curriculum</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>September National Master Naturalist Conference – Estes Park, CO</td>
<td>Speaker</td>
<td>Georgia Master Naturalist Program</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>August Berryman Institute 1st Annual Symposium – Logan, UT</td>
<td>Speaker</td>
<td>Georgia’s Wildlife Damage Management Program</td>
<td>70</td>
</tr>
</tbody>
</table>

b2. Landowner Meetings – State or Local

<table>
<thead>
<tr>
<th>Month</th>
<th>Audience &amp; Location</th>
<th>Role</th>
<th>Presentation</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>May State FFA Teachers – State Arboretum, Braselton, GA</td>
<td>Invited</td>
<td>Mammals of Georgia</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>March Master Gardener – Rome, Floyd Co. Ga</td>
<td>Invited</td>
<td>Nuisance Wildlife</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>February Master Gardener – Cumming, Forsyth Co</td>
<td>Invited</td>
<td>Nuisance Wildlife</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>January Master Gardener – Athens, Clark Co.</td>
<td>Invited</td>
<td>Nuisance Wildlife</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Piedmont Horticulture Association – Spartanburg, SC</td>
<td>Invited</td>
<td>Nuisance Wildlife and Management</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>February Master Gardeners - Athens, GA</td>
<td>Invited</td>
<td>Nuisance Wildlife and Gardens</td>
<td>35</td>
</tr>
<tr>
<td>Year</td>
<td>Month</td>
<td>Event Description</td>
<td>Role</td>
<td>Topic</td>
</tr>
<tr>
<td>------</td>
<td>-------</td>
<td>-------------------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>2004</td>
<td>October</td>
<td>Peachtree Elementary Science Night - Decatur, GA</td>
<td>Invited Speaker</td>
<td>Mammals of Georgia</td>
</tr>
<tr>
<td>2004</td>
<td>October</td>
<td>NE Georgia Cattlemen’s Association - Clarksville, GA</td>
<td>Invited Speaker</td>
<td>Nuisance Wildlife</td>
</tr>
<tr>
<td>2004</td>
<td>May</td>
<td>Georgia Master Naturalist Program - Athens, GA</td>
<td>Co-host and Speaker</td>
<td>Wildlife Identification and Management</td>
</tr>
<tr>
<td>2004</td>
<td>April</td>
<td>Georgia Master Naturalist Program - Athens, GA</td>
<td>Co-host and Speaker</td>
<td>Ecology</td>
</tr>
<tr>
<td>2004</td>
<td>March</td>
<td>Georgia Native Plant Symposium - Covington, GA</td>
<td>Keynote Speaker</td>
<td>Non-native and invasive plants and backyard wildlife</td>
</tr>
<tr>
<td>2004</td>
<td>April</td>
<td>County Meeting – McDuffie County</td>
<td>Invited Speaker</td>
<td>Backyard and Nuisance Wildlife</td>
</tr>
<tr>
<td>2003</td>
<td>September</td>
<td>Georgia Agroforestry Field Day - Griffin, GA</td>
<td>Invited Speaker</td>
<td>Timber and Wildlife Management</td>
</tr>
<tr>
<td>2003</td>
<td>April</td>
<td>Georgia Master Naturalist Program - Ludiwici, GA</td>
<td>Co-host and Speaker</td>
<td>Wildlife Identification and Management</td>
</tr>
<tr>
<td>2003</td>
<td>March</td>
<td>Georgia Master Gardener Course – Macon, GA</td>
<td>Invited Speaker</td>
<td>Nuisance Wildlife</td>
</tr>
<tr>
<td>2003</td>
<td>February</td>
<td>Master Wildlife Video Program – Winder, GA</td>
<td>Panelist</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>September</td>
<td>County Meeting - Winterville, GA</td>
<td>Invited Speaker</td>
<td>Nuisance Wildlife Trapping</td>
</tr>
<tr>
<td>2002</td>
<td>May</td>
<td>East District County Agent Training Warnell Forest Education Center - Guyton, GA</td>
<td>Invited Speaker</td>
<td>Pine Plantation Management for Wildlife</td>
</tr>
<tr>
<td>2002</td>
<td>April</td>
<td>Georgia Master Naturalist Program - Effingham Co., GA</td>
<td>Co-host and Speaker</td>
<td>Wildlife Identification and Management</td>
</tr>
<tr>
<td>2002</td>
<td>March</td>
<td>County Meeting – Washington, GA</td>
<td>Invited Speaker</td>
<td>Making Your Land Pay</td>
</tr>
<tr>
<td>2002</td>
<td>March</td>
<td>County Meeting – Georgetown, GA</td>
<td>Invited Speaker</td>
<td>Deer and Turkey Management</td>
</tr>
</tbody>
</table>

**c. County Agent Training**
- 2006
  - Winter Conference - Program: *Wildlife Management* 44 agents
- 2005
SE District, ANR Training – S. Georgia College, Douglas, GA  45 agents
Program: Wildlife Damage Control
SE District, ANR Training – S. Georgia College, Douglas, GA  45 agents
Program: Wildlife Income Opportunities
Winter School - Training cancelled by University

○  2004
  Winter School - Program: Backyard Wildlife  19 agents
  Winter School - Program: Nuisance Wildlife  21 agents

○  2003
  Winter School - Program: Mammals of Georgia  11 agents
  Winter School - Program: Backyard Wildlife  27 agents
  Winter School - Program: Introduction to Wildlife Management  24 agents

○  2002
  Winter School - Program: Mammals of Georgia.  14 agents
  July, 2002 - National Association of County Agriculture Agents (NACAA) Forestry/Wildlife Tour, Savannah, GA  50 agents

5. OTHER SERVICE

a. Membership in Professional Organizations

  The Wildlife Society, since 1977
  Jim McDonough Awards Committee, 2003-2004
  Wildlife Damage Working Group since 2001
  - nominated for Secretary/Treasurer, 2005
  Southeastern Section, since 1978
  Best Wildlife Paper Awards Committee, 2004- 2005
  Nongame and Endangered Species Committee, 1989-1999
  Editor, Southeastern Section Newsletter, 1991-1993
  Georgia Chapter, since 2001
  Member-at-Large, 2003-2004
  - nominated for President, 2005
  Virginia Chapter, 1987-2001
  Past President, 1999; President, 1998;
  President-elect, 1997; Vice-President, 1996
  Conservation Affairs Committee, 1990-1993;
  Awards Committee, 1990-1991
  Membership Committee, 1989
  Clemson Student Chapter, 1979-1982
  Vice-President, 1980; Conclave Quiz Bowl Team, 1981
  Virginia Tech Student Chapter
  Member 1977-1979
  American Society of Mammalogists, since 1979
  Association of Natural Resource Extension Professionals, since 2001
  Virginia Academy of Science, since 1989
b. Membership in Honor Societies

Gamma Sigma Delta
- Clemson University Chapter - Inducted 1984

Xi Sigma Pi
Clemson University Chapter - Inducted 1980

c. State, Regional and National Service

National
4-H Wildlife Stewards/Master Science Educators Board Oregon State 4-H Southeastern Representative (2002-2004)

Regional
Master Tree Farmer/Master Wildlifer Committee- GA Representative (2003-2005)

State
Georgia Master Naturalist, State Program Committee, Chair (2002-2003)
Georgia Forestry/Wildlife Education Committee (2003-2005)
- Outreach for Traditionally Underserved Audiences
Billy Lancaster Forestry Youth Camp – Advisory Board (2004-2006)

d. Meetings Attended

National
Biennial Wildlife Damage Management Conference – 2003, 2005
Jack H. Berryman Institute – 1st Annual Symposium - 2005
The National Master Naturalist Annual Conference – 2005

Regional

State
Georgia Chapter-The Wildlife Society
- Annual Summer Meeting, 2001-2005
e. Meetings Hosted

14th Colloquium on the Conservation of Mammals in the Southeastern United States, Helen, GA. 2-day meeting, February 2004.

f. Workshops Conducted

University of Georgia
Pond Management – Landowners and Consultants – Flinchum’s Phoenix, Athens, GA. August 16, 2006; Attendance 42.
FASAT V – Wildlife Issues and Opportunities. 

g. Workshops Attended

Sponsored by the Smithsonian Institute, Conservation and Research Center, Front Royal, VA.

h. College and University Service

1. University of Georgia
   University Committee
   School of Forestry and Natural Resources Committees
   Curriculum Committee – 2005, 2006
   Administrative Committee - 2006
   Ad-hoc Committee for Service and Outreach – 2004-2006 (member); Chair (2006-2007).
   Search Committee
   - Wildlife Disease Faculty (2006).
   - Service and Outreach Faculty (2006).
   Student Activities
   Warnell School of Forest Resources Graduate Student Seminar (judge) – 2003; 2005
   UGA Freshman Summer Orientation Fair – 2003, 2004


i. **Community Service**

1. **University of Georgia**

**Graduate Student Theses**

Winchester, Christopher  
August 2007 - Master of Science, Wildlife Ecology and Management  
Thesis: “Ecology and management of the endangered Key Largo woodrat (*Neotoma floridana smallii*)”

Linehan, Jennifer M.  
Thesis: “Mammal inventory of Vicksburg National Military Park, Vicksburg, MS”

Gammons, Daniel J.  
December 2006 – Master of Science, Wildlife Ecology and Management  
Thesis: “Radio-telemetry studies of armadillos in southwest Georgia”

Rutledge, Holly Eve  
August 2005 – Master of Science, Wildlife Ecology and Management  
Thesis: “The use of ecological principles as the basis of a nonformal Environmental education evaluation tool”

Stephens, Odin Lee  
May 2005 – Master of Science, Wildlife Ecology and Management  
Thesis: “An evaluation of three cool-season perennial forages for white-tailed deer and efficacy of Milorganite to protect agronomic and ornamental plants from deer damage”
CURRICULUM VITAE
2007

Academic History

Name: Karl V. Miller
Present Rank: Professor
Address: Warnell School of Forest Resources
The University of Georgia
Athens, GA 30602
Appointment: 40% Teaching; 60% Research
Tenure Status: tenured
Graduate Faculty Status: Member since December 1990
Adjunct appointments: Adjunct Associate Professor, Department of Forestry, Clemson University

Areas of Specialization: Physiology, behavioral ecology, and habitat requirements of cervids with emphasis on white-tailed deer. Wildlife habitat and population responses to forest management practices

Educational History

Doctor of Philosophy in Forest Resources; University of Georgia; December 1985
Dissertation Title: 'Social and biological aspects of signpost communication in white-tailed deer.'

Master of Science in Entomology; The Ohio State University; May 1981
Thesis Title: 'The biology, host preference, and functional response of Atheta coriaria (Kraatz) (Coleoptera: Staphylinidae).' 

Bachelor of Science in Entomology; The Pennsylvania State University; May 1979

Resident Instruction

Resident Undergraduate Instruction
Dr. Miller was employed at the School of Forest Resources specifically to teach a course entitled Managing Forests for Wildlife and Diversity (currently Management of Wildlife Habitats - FORS 4300). This course requires an instructor possessing broad training and experience in vertebrate natural history, wildlife habitat requirements, and forest management practices, along with expertise in agronomy, wetland management, forest policy, and landscape ecology. Dr. Miller also is a lead instructor in Senior Project in Forest Resources Management (FORS
4730), a co-taught, advanced problems course in integrative forest management, which likewise requires extensive interdisciplinary skills.

**Other Contributions to Resident Undergraduate Instruction**

Dr. Miller regularly serves as an advisor or committee member for students enrolled in FORS 4730 (Senior Project) and FORS 4750 (Senior Thesis) during semesters when he is not serving as a lead instructor. In addition, he has provided invited lectures in FRS 170, FRS 401, FRS 491, and FRS 531. Dr. Miller also provides numerous undergraduate students with non-classroom educational opportunities including volunteer experience on research projects, non-course field trips, and paid internships/technician positions.

**Academic Advising of Undergraduate Students**

Each year, Dr. Miller serves as an academic advisor to 12-18 undergraduate students in the Wildlife Management Major in the School of Forest Resources.

**Resident Graduate Instruction**

Dr. Miller serves as coordinator of FORS 8300 (Fisheries and Wildlife Seminar) and has taught the course on several occasions. One course taught by Dr. Miller (Management of Wildlife Habitats) has both graduate and undergraduate sections.

**Supervision of Student Research**

Dr. Miller has served as a thesis advisor for >30 Master of Science students, and currently serves as advisor for an additional 7 students. Dr. Miller has served as dissertation advisor for 8 Ph.D. students, and currently serves as advisor for 5 additional students.

**Graduate Advisor, Master of Science Students since 2000**

<table>
<thead>
<tr>
<th>Student</th>
<th>Date matriculated</th>
<th>Co-advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lee, James</td>
<td>2000</td>
<td></td>
</tr>
<tr>
<td>Dasher, Karen</td>
<td>2000</td>
<td></td>
</tr>
<tr>
<td>Welch, Jay</td>
<td>2000</td>
<td></td>
</tr>
<tr>
<td>Owen, Sheldon</td>
<td>2000</td>
<td>B. R. Chapman</td>
</tr>
<tr>
<td>Senecal, Guinn</td>
<td>2001</td>
<td></td>
</tr>
<tr>
<td>Constantine, Niki</td>
<td>2001</td>
<td></td>
</tr>
<tr>
<td>D’Angelo, Gino</td>
<td>2003</td>
<td></td>
</tr>
<tr>
<td>Mihalco, Rebecca</td>
<td>2004</td>
<td>S. Castleberry</td>
</tr>
<tr>
<td>Schirmacher, Michael</td>
<td>current</td>
<td>S. Castleberry</td>
</tr>
<tr>
<td>Kilmaster, Charles</td>
<td>2005</td>
<td>R. J. Warren</td>
</tr>
<tr>
<td>Meares, Jeremy</td>
<td>2005</td>
<td>R. J. Warren</td>
</tr>
<tr>
<td>Stephens, Odin</td>
<td>2005</td>
<td>M. Mengak</td>
</tr>
<tr>
<td>Morse, Brian</td>
<td>current</td>
<td></td>
</tr>
<tr>
<td>Kolodzinski, Jeffrey</td>
<td>current</td>
<td></td>
</tr>
</tbody>
</table>
Schrecengost, Joshua current
Perry, Kevin current
Valitzski, Sharon current R. J. Warren
Vanguilder, Cory current

Dr. Miller has served on an additional >30 Master of Science committees

**Graduate Advisor, Ph.D. Students since 2000**

<table>
<thead>
<tr>
<th>Student</th>
<th>Date matriculated</th>
<th>Co-advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hellickson, Mickey</td>
<td>2002</td>
<td></td>
</tr>
<tr>
<td>Campbell, Tyler</td>
<td>2003</td>
<td></td>
</tr>
<tr>
<td>Laseter, Benjamin</td>
<td>2004</td>
<td></td>
</tr>
<tr>
<td>Simmons, Robert</td>
<td>current</td>
<td>R. Daniels</td>
</tr>
<tr>
<td>Comer, Christopher</td>
<td>2004</td>
<td></td>
</tr>
<tr>
<td>Miller, Brad</td>
<td>current</td>
<td></td>
</tr>
<tr>
<td>Hein, Cris</td>
<td>current</td>
<td>S. Castleberry</td>
</tr>
<tr>
<td>Hohman, Doug</td>
<td>current</td>
<td>S. Castleberry</td>
</tr>
<tr>
<td>D’Angelo, Gino</td>
<td>current</td>
<td>R. J. Warren</td>
</tr>
</tbody>
</table>

Dr. Miller has served on an additional >10 Ph. D. committees (2 PhD at Clemson Univ. - adjunct status)

**Scholarly Activities (since 2001)**

**Publications (listed in chronological order by category)**

**Authored or Co-authored Books since 2001**


**Edited or Co-edited Books since 2001**

Kamermeyer, K. E., K. V. Miller, and L. Thomas. 2006. Quality Food Plots: Your guide to better deer and better deer hunting. Quality Deer Management Association, Athens, GA.
**Chapters in Books and Book Contributions (all invited chapters) since 2001**


**Journal Articles (peer reviewed) since 2001**


**Published Proceedings and Symposia since 2001**

(* Indicates Peer Reviewed Publications)


Welch, J. R., K. V. Miller, and W. E. Palmer. 2002. Response of vegetation important to Northern Bobwhites following chemical and mechanical treatments. Pg. 156 in S. J.
DeMaso, W. P., Kuvlesky, Jr., F. Hernandez, and M. E. Berger (eds.). Quail V, Proceedings of the 5th National Quail Symposium, Austin, TX.


**Technical Publications (non-refereed) since 2001:**


**Popular Articles since 2001:**


**Grants Received since 2001**

Source: USDA Forest Service
Title: Seasonal changes in activity and roosting ecology of bats in relation to forested corridors
P.I.s: S. B. Castleberry and K. V. Miller
Amount: $18,640 Duration: 2006-2007

Source: National Council for Air and Stream Improvement
Title: Evaluation of the effects of intensive pine plantation management on wildlife habitat quality 6 to 8 years post-establishment
P.I.s: S. B. Castleberry and K. V. Miller
Amount: $169,020 Duration: 2007-2010

Source: Smith Newspapers
Title: Donation for “Coyote Research Program”
P.I.s: K. V. Miller
Amount: $16,000          Duration: 2006-2007

Source: Berryman Institute East at Mississippi State University
Title: Development and evaluation of devices designed to minimize deer-vehicle collisions
P.I.s: K. V. Miller and R. J. Warren

Amount: $15,000          Duration: 2006-2007

Source: U. S. Department of Defense
Title: Area Utilization and Time Allocation of White-Tailed Deer (at contaminated sites)
P.I.s: K. V. Miller

Amount: $143,000          Duration: 2005-2007

Source: USDA Forest Service
Title: Seasonal changes in activity and roosting ecology of bats in relation to forested corridors
P.I.s: S. B. Castleberry and K. V. Miller

Amount: $27,438          Duration: 2004-2006

Source: Coastal Barrier Foundation et al.
Title: Fallow deer ecology on Little St. Simons Island
P.I.s: K. V. Miller

Amount: $20,600          Duration: 2004-2007

Source: Quality Deer Management Association
Title: Evaluation of tooth wear and replacement as an aging criterion in white-tailed deer
P.I.s: K. V. Miller and R. J. Warren

Amount: $35,000          Duration: 2003-2005

Source: USDA Forest Service - Savannah River
Title: Population size, movement and habitat use of coyotes on the Savannah River Site
P.I.s: K. V. Miller

Amount: $49,000          Duration: 2005-2007

Source: various
Title: Donations in support of deer contraception research at the Whitehall Deer Research Facility
P.I.s: R. J. Warren and K. V. Miller

Amount: $5,500           Duration: 2003-2004

Source: Georgia Department of Transportation
Title: Evaluation of alternate technologies to minimize deer-vehicle collisions
P.I.s: R. J. Warren and K. V. Miller


Source: National Council for Air and Stream Improvement
Title:  Continued evaluation of the effects of intensive pine plantation management on wildlife habitat quality  
P.I.s:  S. B. Castleberry and K. V. Miller  
Amount:  $159,480  Duration:  2004-2007  
Source:  USDA National Research Initiative

Title:  Persistence of reduced herbivory in forest regeneration following localized management.  
P.I.s:  K. V. Miller, W. M. Ford, and T. A. Campbell  
Amount:  $199,000  Duration:  2003-2005  
Source:  Georgia Department of Natural Resources, Div. Parks, Recreation, and Historic Sites

Title:  Population Ecology of White-tailed Deer on Red Top Mountain and Hard Labor Creek State Parks, Georgia.  
P.I.s:  R. J. Warren and K. V. Miller  
Amount:  $62,195  Duration:  2003-2005  
Source:  Bat Conservation International

Title:  Relationship between bats and remnant forest corridors.  
P.I.s:  S. B. Castleberry and K. V. Miller  
Amount:  $1,000  Duration:  2003-2004  
Source:  U.S. Department of Interior, National Park Service

Title:  Survey of bat community composition, relative abundances, and distribution at the New, Gauley, and Bluestone River National Park Areas.  
P.I.s:  S. B. Castleberry, W. M. Ford, M. A. Menzel, J. M. Menzel, and K. V. Miller  
Amount:  $106,433  Duration:  2003-2005  
Source:  Westvaco Company

Title:  Bat activity, habitat use, and roosting ecology on an intensively managed forest with remnant corridors.  
P.I.s:  S. B. Castleberry and K. V. Miller  
Amount:  $84,800  Duration:  2002-2004  
Source:  USDA Forest Service

Title:  Spatial heterogeneity and crown closure in young stands of longleaf pine and hardwoods: Effects on plant and small-vertebrate community turnover.  
P.I.s:  T. B. Harrington, K. V. Miller and R. F. Daniels  
Amount:  $45,174  Duration:  2001-2003  
Source:  Quality Deer Management Association

Title:  Donation in support of white-tailed deer research.  
P.I.s:  K. V. Miller and R. J. Warren  
Amount:  $26,000  Duration:  2001
Source: USDA National Research Initiative
Title: Minimizing the impacts of herbivory in forest regeneration: a test of localized management.
P.I.s: K. V. Miller and W. M. Ford
Amount: $225,000 Duration: 2000-2004

Source: National Council for Air and Stream Improvement
Title: Effects of intensive pine plantation management on wildlife habitat quality.
P.I.s: K. V. Miller and T. Harrington
Amount: $148,440 Duration: 2001-2004

Source: USDA, Forest Service
Title: Minimizing deer-vehicle collisions: a test of localized management.
P.I.s: K. V. Miller and J. C. Kilgo
Amount: $199,560 Duration: 2000-2004

Source: USDA, Forest Service
Title: Evaluation of microsatellite loci in Central Appalachian oaks.
P.I.s: S. B. Castleberry, W. M. Ford, and K. V. Miller
Amount: $5,000 Duration: 2000-2001

Convention Papers/invited seminar since 2001


Hein, C. D., S. B. Castleberry and K. V. Miller. 2006. Modeling roost-site selection of Seminole bats (Lasiurus seminolus) at multiple spatial scales on an intensively-managed forest in the Lower Coastal Plain of South Carolina. 36th Annual North American Symposium on Bat Research, Wilmington, NC (oral presentation; abstract)


Sustr, P., L. Bartos, D. Vankova, J. Vichova, and K. V. Miller. 2006. Home range size and quality in white-tailed deer (Odocoileus virginianus) and fallow deer (Dama dama) in Dobris Forest, Czech Republic. 6th International Deer Biology Congress, Institute of Animal Production, Prague, Czech Republic (abstract).


Bluestone River National Park Areas in the Central Appalachians. 35th Annual North American Symposium on Bat Research, Sacramento, CA (abstract).


Stephens, O. L., M. T. Mengak, K. E. Kammermeyer, and K. V. Miller. 2005. Forage production, use by white-tailed deer (Odocoileus virginianus), and seasonal crude protein level of three cool-season forages in Georgia. 59th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. (abstract)


Hein, C. D., S. B. Castleberry and K. V. Miller. 2004. Roost-site selection of Rafinesque’s big-eared bats and Southeastern Myotis on a managed forest in the Lower Coastal Plain, South Carolina. 34th Annual North American Symposium on Bat Research (oral presentation; abstract)


Miller, K. V. 2004. Food habits of White-tailed deer. Annual Convention, Georgia Chapter, Quality Deer Management Association, Atlanta, GA (invited presentation).


Miller, K. V. 2003. White-tailed deer research at The University of Georgia. Quality Deer Management Association, Spring Banquet, The Classic Center, Athens Georgia. (invited presentation)


Bartos, L., J. Vichova, V. Ksada, P. Sustr, K. V. Miller, D. Vankova, R. McQuillan, and G. Illmann. 2002. White-tailed and fallow deer increase the time spent on a pasture if joined by another deer: Experimental evidence using a model “grazing deer” @ 5th International Deer Biology Congress, Quebec, Canada (abstract 5:13).

Bartos, L., P. Sustr, J. Panama, V. Ksada, P. Janovsky, J. Vichova, and K. V. Miller. 2002. Dominance during the period of antler growth and fluctuating asymmetry in fallow deer (Dama dama) bucks. @ 5th International Deer Biology Congress, Quebec, Canada (abstract 5:13).


Campbell, T. A., B. R. Laseter., D. A. Osborn, W. M. Ford, and K. V. Miller. 2002. Localized management of white-tailed deer within forest regeneration areas of the central Appalachians. @ 5th International Deer Biology Congress, Quebec, Canada (abstract 5:25)
Moore, G. I., R. J. Mayze, I. A. Moore and K. V. Miller. 2002. Reproductive performance of female hog deer (*Axis porcinus*) in a study enclosure on Sunday Island, Australia. @ 5th International Deer Biology Congress, Quebec, Canada (abstract 5:94).


Miller, K. V. 2002. Communication by a silent animal: towards an understanding of pheromonal communication by white-tailed deer. University of Guelph, Department of Physiology, Guelph, Ontario, Canada (invited seminar).


Welch, J. R., K. V. Miller, and W. E. Palmer. 2002. Response of vegetation important to Northern Bobwhites following chemical and mechanical treatments. Quail V, Meeting of the 5th National Quail Symposium, Austin, TX.

Miller, K. V. 2002. Forestry herbicides and wildlife habitat conditions @ Oconee Chapter, Society of American Foresters, Athens, GA.


Miller, K. V. 2001. Herd demographics and social communication influences on white-tailed deer breeding chronology. Georgia Southern University, Statesboro, GA (Invited seminar).

Miller, K. V. 2001. Hunting, wildlife management, and a little philosophy. Invited Expert Panel Member @ White-tailed Deer Think Tank. 1st National Convention, Quality Deer Management Association, Athens, GA


Wigley, T. B., D. C. Guynn, K. V. Miller, and C. N. Owen. 2001. Wildlife in managed forests: the evolution of research in the South. @ Southern Forest Science Conference, Atlanta, GA. (invited paper)


Continuing Education Service Courses since 2000

2006. Wildlife Management. Georgia Center for Continuing Education, University of Georgia, Athens, GA. Talks presented included: Overview of wildlife management, historical context and preliminary concepts; Management of Southern pines; Management of hardwood stands; Deer Management, the basics; Deer Food Habits; and Supplemental Plantings for Deer.

2006. Understanding the senses of the whitetail. Alabama Chapter of the Quality Deer Management Association, Birmingham, AL

2006. Latest research on white-tailed deer vision. @ Quality Deer Management Association and The King Ranch Foundation, Kingsville, TX.

2006. Managing native habitats. @ Habitat Management Field Day, Quality Deer Management Association, Bogart, GA

2006. Integrating wildlife and intensive forest management. Georgia Center for Continuing Education, Macon, GA. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.

2006. The senses of the whitetail. Educational Seminar sponsored by the Quality Deer Management Association and Briarwood Baptist Church, Colbert, GA

2006. Latest Research on Whitetail Senses and Communication. @ Delaware 2006 QDMA Deer School. Delaware Dept. of Agric. and Quality Deer Management Assoc., Milford, DE.

2006. Whitetail food habits and impacts on natural vegetation. @ Delaware Deer School. Delaware Division of Fish and Wildlife and Quality Deer Management Assoc., Dover, DE.

2006. How deer communicate. Educational Seminar sponsored by the Quality Deer Management Association and Hull Baptist Church, Colbert, GA

2005. Habitat management for white-tailed deer. @ Master Timber Harvester Continuing Education Program, Hitichiti Experimental Forest, Oconee National Forest, Georgia.

2005. The Fundamentals of white-tailed deer nutrition @ Quality Deer Management Association and The King Ranch Foundation, Kingsville, TX.
2005. The world through the eyes, ears, and nose of the white-tailed deer. Educational Seminar sponsored by the Quality Deer Management Association and Riverside Baptist Church, Colbert, GA.

2005. Wildlife Management. Georgia Center for Continuing Education, University of Georgia, Athens, GA. Talks presented included: Overview of wildlife management, historical context and preliminary concepts; Management of Southern pines; Management of hardwood stands; Deer Management, the basics; Deer Food Habits; and Supplemental Plantings for Deer.

2005. Nutrition, food habits, and habitat management for white-tailed deer @ Habitat Management for Wildlife - Plants, Plantings, & Forest Management for deer turkey, quail, and more. Georgia Center for Continuing Education, Athens, GA

2005. Seeing the world the way a deer sees it. @ Chesapeake Farms Field Day, DuPont Corporation, Baltimore, MD.

2005. Integrating wildlife and intensive forest management. Georgia Center for Continuing Education, Macon, GA. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.


2005. Overview of Habitat Management Practices. @ Wildlife Management Workshop for Ag-Ed Teachers, University of Georgia, School of Forest Resources, Athens, GA.


2005. Generating Wildlife Management Recommendations for Land Managers Based on Science @ Blending Wildlife Considerations in Forest Stewardship Program Plans. Georgia Department of Natural Resources and Warnell School of Forest Resources, University of Georgia, Athens, GA.

2004. Integrating wildlife and intensive forest management. Cooperative Extension Service, Louisiana State University, Alexandria, LA. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife;
Considerations for management hardwoods for maximal wildlife benefit; and
Managing food plots for deer and other wildlife.

2004. Deer vision - breaking research and how it affects your hunting. Quality Deer
Management Short Course, QDMA and MeadWestvaco, Columbus, GA.

2004. Herbicides for wildlife habitat improvement @ Forest Herbicides: back to the basics.
Warnell School of Forest Resources and Georgia Center for Continuing Education,
University of Georgia, Tifton, GA.

2004. Generating Wildlife Management Recommendations for Land Managers Based on
Science @ Blending Wildlife Considerations in Forest Stewardship Program Plans.
Georgia Department of Natural Resources and Warnell School of Forest Resources,
University of Georgia, Tifton, GA.

2004. Wildlife Management. Georgia Center for Continuing Education, University of Georgia,
Athens, GA. Talks presented included: Overview of wildlife management, historical
context and preliminary concepts; Management of Southern pines; Management of
hardwood stands; Deer Management, the basics; Deer Food Habits; and Supplemental
Plantings for Deer.

2004. The changing nature of game management @ 2004 Alumni Symposium. Warnell
School of Forest Resources, University of Georgia, Athens, GA.

2004. Forestry and deer management in Georgia @ Managing your forestland investment,
Regional Meeting, Georgia Forestry Association, Warnell School of Forest
Resources, University of Georgia, Athens, GA.

2004. Planting for wildlife @ Master Forester and Wildlife Program Series, Quitman County
Extension Office, Georgetown, GA.

2004. Integration of timber and wildlife management. Georgia Center for Continuing
Education, University of Georgia, Athens, GA. Talks presented included: A wildlife
management primer; Considerations for within stand management; Some
considerations for among stand management; Forestry herbicides and wildlife;
Considerations for management hardwoods for maximal wildlife benefit; and
Managing food plots for deer and other wildlife.

2003. Food Plot Management @ Annual Forestry: Area Specialty Advanced Training for
County Extension Agents. Warnell School of Forestry, The University of Georgia,
Athens, GA.

2003. Looking through a Deer’s Eyes (including up to date research on deer vision) @ Atlanta
Metro Branch, Quality Deer Management Association, Smyrna, GA.
2003. Forest herbicide influences on wildlife habitat in southern forests @ 5th DuPont Forest Technology Transfer Forum, Tifton, GA.

2003. Biology and communication @ Delaware DNR & QDMA Deer School, Dover, DE.

2003. Natural vegetation identification, value and management @ Delaware DNR & QDMA Deer School, Dover, DE.

2003. The Latest Research on Whitetail Vision @ Quality Deer Management Shortcourse, King Ranch Museum, Kingsville, TX.

2003. Biodiversity responses to forest management practices @ MeadWestvaco Forestry Training Program, Phenix City, AL.

2003. How deer communicate @ Spring Island environmental education seminars, Spring Island SC.

2003. Using chemicals to enhance wildlife habitat @ Habitat management field day, Nemours Wildlife Foundation, Seabrook, SC (w/ L. Nelson).

2003. A new look at white-tailed deer vision @ Quality Deer Management Short Course, The King Ranch and Quality Deer Management Assoc., Kingsville, TX.

2003. Integrating wildlife and intensive forest management: a primer for forestry professionals and landowners. Center for Continuing Education, University of Georgia, Athens, GA. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.

2003. The world through the eyes, ears, and nose of a deer. @ Quality Deer Management Short Course, Mountaineer Branch, Quality Deer Management Association, Summersville, WV

2003. Deer see the world a little different than you do! @ Quality Deer Management Shortcourse, Atlanta Branch, Quality Deer Management Assoc., Atlanta, GA.

2002. Scent communication in White-tailed deer & How deer hear and see. @ Quality Deer Management Shortcourse, Williamsport, PA.


2002. Making sense of deer senses. @ Quality Deer Management Shortcourse, The King Ranch and Quality Deer Management Assoc., Kingsville, TX.
2002. Considerations for planting food plots for white-tailed deer. Athens Area Civitan Club, Athens, GA.

2002. Scent communication in White-tailed deer & How deer hear and see. @ Snyder County Quality Deer Management Shortcourse, PA.

2002. How deer talk and see. Athens Area Civitan Club, Athens, GA.

2001. Enhancing native and planted foods for wildlife @ Forest management for Wildlife: A Shortcourse for Natural Resource Managers. Clemson University, Clemson, SC

2001. Integrating wildlife and intensive forest management: a primer for forestry professionals and landowners. Center for Continuing Education, University of Georgia, Athens, GA. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.

2001. Food plots and supplemental feeding for white-tailed deer. @ Quality Deer Management Association, Atlanta Branch Mtg., Marietta, GA


2001. Scent communication in White-tailed deer. @ Quality Deer Management Shortcourse, Shillington, PA.

2001. Wildlife habitat improvement with herbicides. @ Forest management for Wildlife: A Shortcourse for Natural Resource Managers. Clemson University, Clemson, SC

2001. Using herbicides to improve wildlife habitat. @ Herbicides and Forestry. Center for Continuing Education, University of Georgia, Macon, GA

2001. Integrating wildlife and intensive forest management: a primer for forestry professionals and landowners. Ft. Walton Beach FL. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.

2001. Establishing successful food plots for white-tailed deer. @ Quality Deer Management Shortcourse, Shillington, PA.

2001. How deer communicate: Scent, Sounds and Postures. @ King Ranch Deer Management Shortcourse, Kingsville, TX.
2001. Scent communication in white-tailed deer @ Quality Deer Management Shortcourse, St. Joe Timberlands, Tallahassee, FL.

2001. Integrating wildlife and intensive forest management: a primer for forestry professionals and landowners. Charleston, SC. Talks presented included: A wildlife management primer; Considerations for within stand management; Some considerations for among stand management; Forestry herbicides and wildlife; Considerations for management hardwoods for maximal wildlife benefit; and Managing food plots for deer and other wildlife.

Public and Professional Service

Professional Memberships

The Wildlife Society, Certified Wildlife Biologist
Southeast Section
Georgia Chapter
University of Georgia Student Chapter
American Society of Mammalogists
Institute of Ecology, University of Georgia
Environmental Ethics Certificate Program, Friend
Southern Weed Science Society
Georgia Academy of Science
Georgia Wildlife Federation
Quality Deer Management Association

Offices Held in Professional Societies since 2001

Forest Wildlife Committee, Southeastern Association of Fish and Wildlife Agencies (1991-present)
Reaccreditation Review Committee, Southeast Section of The Wildlife Society (1998-present)
Advisory Board, Quality Deer Management Association (1991-present)

Honor Societies

Sigma Xi
Phi Kappa Phi
Xi Sigma Pi
Gamma Sigma Delta

Editorship or Editorial Board Member of Journals

152
Meetings and conferences organized or chaired

- Scientific Steering Committee, Biology of Deer Conference, Prague, Czech Republic (2005-2006)
- Coordinator - Deer Management Workshop, Biology of Deer Conference, Prague, Czech Republic (2006)
- Session Moderator; 26th Annual Meeting Southeast Deer Study Group, Chattanooga, TN (2003)

Manuscript Referee since 2000

Castanea: 2002(1)
Southeastern Naturalist: 2005(1), 2003(1), 2002(1)
Ecological Applications: 2002(1)
Journal of Mammalogy: 2000(2)
Journal of the Elisha Mitchell Scientific Society: 2001(1)
Acta Theriologica: 2002(1), 2001(1)
Canadian Journal of Forest Research: 2005(1), 2003(1),
Ethology: 2005(1), 2003(1)
Forest Ecology and Management: 2005(1), 2004(1)
Acta Ethologica: 2004(1)
Southwestern Naturalist: 2005(1)
Integrated Environmental Assessment and Management: 2005(1)
New Forests: 2005(1)

Proposal Reviews since 2001

National Institutes of Health, Small Business Innovation Research, Infectious Diseases and Microbiology Study
Section, (2001)
Sustainable Forest Management Network and Forestry Canada, University of Alberta, Canada (2001)
U. S. Department of Agriculture, National Research Initiative: 2006

Professional Service

Steering Committee: Center for Research Excellence, Sand County Foundation Bradley Fund for the Environment (2000-present)
Peer Reviewer: Southern Forest Resources Assessment “What are the likely effects of expanding human populations, urbanization, and infrastructure development on wildlife and their habitats? (2001)
Scientific Advisory Board: Texas Deer Association (1999-present)
Advisor: Low Country Institute – Land management activities on Spring Island, SC (1998-present)
Advisor: Georgia Forestry for Wildlife Partnership Program, Georgia Department of Natural Resources and corporate forest landowners

Other reviews


University of Georgia Service since 2001

University Administrative Service

Member, Search Committee - Asst. Vice President for Research and Director of Research Compliance - 2004
Member, Institutional Animal Care and Use Committee (Appointed by President Adams, September 1997)
Member, University Review Committee - Professional & Applied Studies - A, (Appointed by Provost Mace, August 2003 - through 2006)

School of Forest Resources Committee Service

Member, Search Committee, Dean Warnell School of Forestry and Natural Resources (2006-7)
Member, Search Committee, Fisheries Management (2006-7)
Chair, Search Committee, Wildlife Disease Specialist (2005-2006)
Chair, Search Committee, Wildlife Ecologist/Herpetologist (2004-2005)
Member, Promotion and Tenure Committee (2004-2005)
Chair, Post-tenure Review Committee (2003)
Member, Search Committee, Silviculture and Applied Forest Ecologist (2002)
Member, Lands Committee (2000-2006)
Member, Graduate Affairs Committee (2000-2006)
Chair, Search Committee, Extension Wildlife Ecologist (2000-2001)
Member, Search Committee, Wildlife Ecologist (2000 - 2001)
Member, Promotion and Tenure Committee (2000-2001)
Chair, Research Review and Coordination Committee (1997-2006)
Member, E. L. Cheatum Award Committee (1996-2007)
Rebecca Moore  
mail:  RMoore@warnell.uga.edu  
Phone:  (706)583-8932  
Warnell School of Forestry and Natural Resources  
University of Georgia, Athens, GA 30602

Research Interests

- Natural Resource and Environmental Economics, with an emphasis on water resource management, non-market valuation, and dynamic programming
- Applied econometrics, including spatial analysis
- Integrated economic-ecological modeling

Education

Ph.D., University of Wisconsin- Madison, Agricultural and Applied Economics, August 2006  
Dissertation Committee:  Richard Bishop (chair), Bill Provencher, David Lewis  
Dissertation Title:  Essays on Non-Market Valuation:  Innovations in Theory and Methods

B.A., University of Colorado- Boulder, Geology, December 2000

Appointments

Assistant Professor, Natural Resource Economics, Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA (July 2006 – present)

Publications


In prep  
Moore, Rebecca, Rich Bishop, Patty Champ, and Bill Provencher, “Uncertain respondents, hypothetical bias, and contingent valuation: The consequences of modeling the wrong decision”.  

156
Moore, Rebecca, Rich Bishop, and Bill Provencher, “Valuation of a Spatially Complex Non-Market Good: The Benefits of Reduced Non-point Source Pollution in Green Bay, WI”.

Moore, Rebecca and Bill Provencher, “Using Attitudes to Characterize Heterogeneous Preferences”.

Moore, Rebecca, "Making Heads or Tails of the Exotic Pet Market: A Conservation Solution or an Invasive Species Pathway?"

Other Activities
- Awarded selection in competitive 2-week workshop funded by NCAR (National Center for Atmospheric Research) and USWRP (United States Weather Research Program).
- Aims to empower practitioners, researchers, and stakeholders to forge new relationships and use new tools to better integrate weather and social science for more effective socio-economic applications and evaluations of weather products.

Delta Program, member (2004 – 2006)
- NSF sponsored community for faculty, academic staff, post-docs, and graduate students to help current and future faculty think and learn about higher education.
- Activities include semester long discussion groups and monthly seminars on various aspects of university teaching.
CV FOR DR. DOUGLAS L. PETERSON

1. ACADEMIC HISTORY

Name: Dr. Douglas L. Peterson
Present Rank: Associate Professor
Recommended Rank: Associate Professor
Proportion Time Assignment: 50% Teaching, 50% Research
Tenure Status: Tenure-track
Graduate Faculty Status: Full Member
Highest Degree: Ph.D. The Pennsylvania State University, 1997

Academic Positions:
Associate Professor, University of Georgia, Athens, GA, Mar 2007 to present.
Assistant Professor, University of Georgia, Athens, GA, Aug 2001 to Mar 2007.
Assistant Professor, Central Michigan University, Mt. Pleasant, Michigan, August 1998 to Aug 2001.

Post-Graduate Awards
State of Michigan Research Excellence Award, Central Michigan University, Mt. Pleasant Michigan 1999

2. RESIDENT INSTRUCTION AND CONTINUING EDUCATION NARRATIVE

Courses of Instruction:

University of Georgia

FRES 1010 Freshman Seminar – Go Fish! 1 credit
Spring 2004
FORS 1100 Natural Resource Conservation 3 credits
Spring 2003, & Spring 2007
FORS 4360 Fish Ecology 4 credits
Spring 2005
FORS 5250/7250 International Studies – Biology and Mgmt of Salmon in [B.C. Canada] 4 credits
Summer 2004
FORS 5360/5360L Fisheries Management 4 credits
Annually from Fall 2001 - 2006
FORS 5930 Special Topics – Ichthyology 4 credits
Spring 2002
FORS 5930 Independent Study – Fish Ecology 4 credits
Spring 2006
FORS 8300 Fisheries Seminar 2 credits
Spring 2003, Spring 2004
Central Michigan University

BIO 240   Conservation of Natural Resources   3 credits
Fall & Spring 1998 - 2001
BIO 363   Fisheries Conservation   1 credit
Fall & Spring 1998 - 2001
BIO 509   Ichthyology   4 credits
Spring 1999-2001
SCI 197   Scientific Communications   3 credits
Fall 1998 - 2001

Academic Advising

Undergraduate advising: average load of 2-6 undergraduate majors per semester
(total of 14 since Aug 2001).
Graduate advising: major advisor to 10 M.S. candidates and 1 Ph. D. candidate. Served
on graduate committees of 3 other M.S. students.

3. SCHOLARLY ACTIVITIES

a. Publications
   (1) Books authored or co-authored:

      Sturgeon. American Fisheries Society, Bethesda, MD. (book proposal accepted,
      manuscript in review)

   (2) Books edited or co-edited

   (3) Chapters in books

   * Publications which have gone through stringent peer-review process.
   # Senior author was graduate student of D. Peterson
   @ Invited publications

   1) *@ Peterson, D., B. Gunderman, and P. Vecsei. 2002. Lake Sturgeon of the Manistee River: a
      current assessment of Spawning stock size, age, and growth. In: Biology,
      Symposium 28:175-183.
      In: Sturgeons and Paddlefish of North America. (Eds) R. S. McKinley, F.W.H.

   (4) Monographs
      None

   (5) Journal Articles
* Publications which have been peer-refereed.
# Senior author was graduate student of D. Peterson
@ Invited publications


(6) Bulletins or Reports


(7) Abstracts – published in conference proceedings


(8) Book Reviews


(9) Works Submitted
* submitted to peer-refereed journals


(10) Any other:

Creative Contributions other than formal publications

Federal Endangered Species Permit

**Regional and National Television Appearances**
Georgia Outdoors Episode #1502: *Sea Creatures*. Georgia Public Television.
Special Nature Presentation: *Sturgeon: eggs to die for*. Nature special to air on National Public Television in 2007 on Dr. Peterson’s ongoing studies of Atlantic sturgeon on the Altamaha River in southeast Georgia.

**b. Grants Received**

1. **Research – University of Georgia ($2,086,642)**

   **2006-07**

   PISCES – Petrossian Institute for the Science and Conservation of Endangered Sturgeons. A proposal to the Georgia Research Alliance for the commercial aquaculture of Russian sturgeon in Georgia. 2007. $50,000.

   **2005**

   **2004**
   Intensive Culture of Walleye Fingerlings in Georgia. Faculty Research Grant, UGA. 2004. $4,525. PI.

   **2003**
Reintroduction of lake sturgeon in the Coosa River, Georgia. GDNR. 2002-2007. $299,912. PI.

2002
Feasibility of Siberian sturgeon aquaculture in Georgia. Warnell School of Forest Resources. $55,000. PI.

2001

c. Recognitions and Outstanding Achievements

1. 2006. Selected as one of 6 nationally recognized scientists to review the 2006 status review report which will evaluate the need to list the Atlantic sturgeon under the Endangered Species Act.
2. 2005-2006. Three awards for “best paper” given to presentations co-authored by Dr. Peterson and his graduate students at various scientific meetings.
3. 2003-2006. At the request of GDNR, Dr Peterson served as the official state representative to the Atlantic Sturgeon Technical Committee meeting of the National Marine Fisheries Service.
4. Spring 2005. Invitation to visit and study the scientific collections of Russian sturgeon at the St. Petersburg National Museum, St. Petersburg, Russia. Dr. Peterson funded his PhD student to attend and collect morphological data from the restricted access collections in the museum. Data collected was used in several recently published papers.
5. Summer 2005. Invitation to present a paper on sturgeon research at the 5th World Sturgeon Symposium, Iran. Because of security concerns, Dr. Peterson did not attend.
6. Fall 2005. Invitation to participate in international expedition to study resource polymorphisms in lake char of the arctic region. Great Bear Lake, Canada. Dr. Peterson participated in study along with Canadian researchers from Dalhousie University. A manuscript is now in preparation.
7. Summer 2004. Hosted US Secretary of the Interior, Gale Norton, on a field trip to the Altamaha River to see shortnose sturgeon.

d. Areas in which research is done

- Fisheries management
- Life history and ecology of sturgeon
- Sturgeon aquaculture
- Population dynamics of exploited fishes

e. Supervision of student research
Academic Advising: ( ) degree in progress, date of anticipated graduation
* will enroll Fall 2007 or Jan 2008

<table>
<thead>
<tr>
<th>Student:</th>
<th>Degree:</th>
<th>Institution</th>
<th>Role:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kregg Smith</td>
<td>M.S. 2001</td>
<td>CMU</td>
<td>Committee chair Lauren</td>
</tr>
<tr>
<td>Yoemans</td>
<td>M.S. 2001</td>
<td>CMU</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Josh Lallaman</td>
<td>M.S. 2001</td>
<td>CMU</td>
<td>Committee chair</td>
</tr>
<tr>
<td>David Wooten</td>
<td>M.S. 2001</td>
<td>CMU</td>
<td>Committee member</td>
</tr>
<tr>
<td>Catherine Peters</td>
<td>M.S. 2002</td>
<td>CMU</td>
<td>Committee member</td>
</tr>
<tr>
<td>Michael Seider</td>
<td>M.S. 2003</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Cathy Marion</td>
<td>B.S. 2004</td>
<td>UGA</td>
<td>Senior thesis advisor</td>
</tr>
<tr>
<td>Rob DeVries</td>
<td>M.S. 2006</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Jeff Zeigeweid</td>
<td>M.S. 2007</td>
<td>UGA</td>
<td>Committee member</td>
</tr>
<tr>
<td>Michael Rosa</td>
<td>B.S. 2007</td>
<td>UGA</td>
<td>Senior thesis advisor</td>
</tr>
<tr>
<td>Paul Vecsei</td>
<td>Ph.D. 2007</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Paul Schueller</td>
<td>M.S. 2008</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Justin Bezold</td>
<td>M.S. 2007</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Shane Kornberg</td>
<td>M.S. 2007</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>Julie Wilson</td>
<td>M.S. 2008</td>
<td>UGA</td>
<td>Committee member</td>
</tr>
<tr>
<td>*Daniel Farrae</td>
<td>M.S. 2009</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
<tr>
<td>*Mike Bednarski</td>
<td>Ph.D. 2010</td>
<td>UGA</td>
<td>Committee chair</td>
</tr>
</tbody>
</table>

f. Editorship or editorial board member of journals or other learned publications

- Editor, AFS Special Publication, Biology and Management of Shortnose Sturgeon
- Associate Editor, North American Journal of Fisheries Management, 2004-2006

h. Convention Papers (Conference Presentations)

* Invited
# National or International Meeting
^ Senior author was graduate student of D. Peterson


*Peterson, D. 2007. Feasibility of commercial sturgeon aquaculture in Georgia. Presentation for the GA Biobusiness Center. Athens, GA.


4. Public Service

- Scientific advisor, Environmental Protection Division, Georgia Department of Natural Resources. Gulf Sturgeon Recovery Team for the Apalachicola-Chatahoochee-Flint River Basin. 2006.
- Peer reviewer of the NMFS Status Review Report on Atlantic sturgeon for potential listing under the Endangered Species Act
- Reviewer for numerous journals: Transactions of the American Fisheries Society, North American Journal of Fisheries Management, Environmental Biology of Fishes, Southeastern Association of Fisheries Management, Progressive Fish Culturist,

5. Other Services

a. Membership in Professional Organizations

- The American Fisheries Society, since 1991
- Georgia Chapter, since 2001
- Ogeechee River Shortnose Sturgeon Working Group, 2002 to present
- Red Drum Stock Enhancement Subcommittee, since 2003

b. Community Service

- Director, Cohutta Fisheries Research and Extension Station. 2001 to present. The facility houses a public aquarium and several ongoing research projects. The number of public visitors, including those from local public schools, scout troops, etc. typically exceeds more than 1000 annually. As Director, Dr. Peterson also ensure that the facility regularly produces and donates catfish for numerous public service events including the Annual UGA fish fry, the Catoosa County Fishing Rodeo, and many other similar events
- Director, Warnell School of Forestry and Natural Resources (WSFNR) Whitehall Fisheries Lab, 2001- 2005.
- Faculty Advisor to the UGA student subunit of the American Fisheries Society
• Member, ad-hoc committee for instruction and oversight of FORS 1100 (Natural Resources Conservation)
• Member, WSFNR undergraduate affairs committee, 2003 - present.
• Member, WSFNR appeals subcommittee of undergraduate affairs committee, 2003-present.
• Member, College of Veterinary Medicine aquatic pathologist faculty search committee, 2006.
• Member, WSFNR GIS and remote sensing faculty search committee, 2005.
• Member, WSFNR Administrative Committee, 2006-2007.
• Member, WSFNR Fisheries search committee, 2006 -2007.
• Member, WSFNR Dean’s Search Committee, 2006-2007.
EDUCATION

Ph.D., December 1994. Oklahoma State University, Department of Zoology, Wildlife and Fisheries Ecology (Dissertation: Abundance and conservation of endangered interior least terns nesting on salt flat habitat)


B.S., May 1985. University of North Carolina, Chapel Hill, Biology

PROFESSIONAL EXPERIENCE

Professor of Wildlife Ecology and Management, D. B. Warnell School of Forest Resources, University of Georgia. (Assistant Professor, 1995-2000; Associate Professor, 2000-2006)

Adjunct Associate Professor, Department of Forest and Natural Resources, College of Agriculture, Forestry, and Life Sciences, Clemson University, 2002-present

AREAS OF RESEARCH

1. Ecology, management, and conservation of waterfowl, waterbirds, seabirds, and shorebirds, especially relative to human activities;
2. Response of avian communities to enhancement and restoration of upland and wetland habitats;
3. Responses of game- and nongame wildlife populations to land use practices and resource conservation programs.

PUBLICATIONS

Technical, Peer-refereed Publications


Peer-edited Publications


Reports (* = stringent review)


Abstracts

Carleton, R.E., and S.H. Schweitzer. 2006. Disease ecology of eastern bluebirds (Sialia sialis) in northwest Georgia: survey of infectious agents within an adult population and effect of
ectoparasites on growth and hematological parameters of nestlings. 9th Annual Warnell School of Forest Resources, Graduate Student Symposium, University of Georgia, Athens, February. (p. 7 in Proceedings)


McMellen, A.B., and S.H. Schweitzer. 2004. Where have all the sparrows gone? Page 18 in Proceedings of the 7th Annual Graduate Student Symposium, Warnell School of Forest Resources and Warnell Graduate Student Association, University of Georgia, Athens.


Sundin, G.W. and S.H. Schweitzer. 2004. Proposal to examine the local movements and habitat selection of juvenile loggerhead turtles (Caretta caretta) following relocation from dredged shipping channels. in Proceedings of the 7th Annual Graduate Student Symposium, Warnell School of Forest Resources and Warnell Graduate Student Association, University of Georgia, Athens.


Manuscripts Submitted


Weng, G-J and S. Schweitzer. Habitat use of mottled ducks (*Anas fulvigula*) in South Atlantic Coastal Zone. *In review.*

**Grants Received**

**Competitive**–


Schweitzer, S.H.  2001.  Supplement to: Nesting ecology and factors limiting the reproductive success of American oystercatchers along Georgia’s coast.  Georgia Department of Natural Resources, Wildlife Resources Division, Social Circle; and D. B. Warnell School of Forest Resources, University of Georgia, Athens ($6,600).


Formula Funding and/or Internal Review—


Graduate Theses and Dissertations Directed

Completed –


Current –


**GRADUATE COMMITTEE SERVICE**

**Completed –**


**Current –**


**UNDERGRADUATE SENIOR THESSES DIRECTED**

Moseley, Kurtis. 2001. Diversity and relative abundance of herpetofauna in hardwood areas subject to prescribed burning. Senior Thesis. (Co-Chair with S. Castleberry)

Spear, Kate A. 2005. Effects of management strategies on Least Tern clutch daily survival rate and nest success on a dredged-spoil site. 7-page manuscript.


**UNDERGRADUATE COURSES TAUGHT**

*Techniques in Wildlife Population Management* (FORS 5310-5310L, 4 semester hrs; required course for the wildlife major and the forest environmental resources major, environmental assessment area of emphasis.)

*Field Orientation and Measurement in Forest Resources* (FORS 3000-3000L, 4 semester hrs; core course [all majors in School of Forest Resources]). Responsible for the wildlife resources component of this team-taught course. 1995-2004.

*Senior Project in Forest Resources Management* (FORS 4730-4730L, 4 semester hrs; core course [all majors in School of Forest Resources]). Co-teach every other year.

**UNDERGRADUATE ADVISING**

Academic advisor for 100 undergraduate students majoring in wildlife management from Fall Quarter 1995 to Fall semester 2007.

Member of the advisory committee for 15 student groups in Senior Project in Forest Resources Management (FORS 4730), and for 12 students completing their Senior Theses in Forest Resources (FORS 4750). Chaired the advisory committee for 5, and co-chair for 1, Senior Thesis students.

**GRADUATE COURSES TAUGHT**


*Ecology & Management of Waterfowl Populations & Their Habitats* (FORS 8350-8350L, 4 semester hrs).

*Fish & Wildlife Seminar* (FORS 8300, 1 semester hr).
CONVENTION PAPERS

Invited Presentations—


Schweitzer, S.H. 2003. Wildlife-related outreach to rural land managers and owners in Georgia. International Conference on Sustainable Development of Rural Areas in Croatia and the Role of the University, Mali Losinj, Croatia.

Schweitzer, S.H. 2003. Development of professional game management in the United States. Faculty of Veterinary Sciences and Faculty of Forestry, University of Zagreb, Croatia.

Schweitzer, S.H. 2003. Species brought back from extirpation using wildlife management and research techniques. Faculty of Veterinary Sciences and Faculty of Forestry, University of Zagreb, Croatia.

Voluntary Presentations—

Carleton, R.E., and S.H. Schweitzer. 2006. Disease ecology of eastern bluebirds (Sialia sialis) in northwest Georgia: survey of infectious agents within an adult population and effect of ectoparasites on growth and hematological parameters of nestlings. 9th Annual Warnell School of Forest Resources, Graduate Student Symposium, University of Georgia, Athens, February


Sundin, G.W., and S.H. Schweitzer. 2005. Local movements and habitat selection of juvenile loggerhead turtles (Caretta caretta) following relocation from dredged shipping channels. Eighth Annual Warnell School of Forest Resources’ Graduate Student Symposium, University of Georgia, Athens, February.


McMellen, A.B., and S.H. Schweitzer. 2004. Where have all the sparrows gone? Seventh Annual Warnell School of Forest Resources Graduate Student Symposium, Warnell School of Forest Resources and Warnell Graduate Student Association, University of Georgia, Athens, 26-27 February.

Sabine, J.B., J.M. Meyers, and S.H. Schweitzer. 2004. Effects of disturbance and predation on American Oystercatchers (*Haematopus palliatus*) during the breeding season, Cumberland Island National Seashore, Georgia, 2003. Seventh Annual Warnell School of Forest Resources Graduate Student Symposium, Warnell School of Forest Resources and Warnell Graduate Student Association, University of Georgia, Athens, 26-27 February.


HONORS & AWARDS

2006. Faculty Award for Outstanding Teaching, The University of Georgia, D.B. Warnell School of Forest Resources, Alumnae Association

2004. Granted membership, Fulbright Academy of Science and Technology by Secretary and Board of Directors


2001. International Fellow, University of Georgia’s International Fellows Program, Office of Instructional Support and Development

2001. Inducted into Gamma Sigma Delta, Honor Society of Agriculture, University of Georgia Chapter, Athens

PROFESSIONAL SERVICE TO FEDERAL AGENCIES
**Member of Review Panel**

Member of Environmental Sciences Committee, Council for International Exchange of Scholars and Fulbright Scholar Awards Program, 2004-2006.


Peer reviewer for the competitive Graduate Environmental Study Fellowships submitted to the U.S. Environmental Protection Agency’s Office of Research and Development in response to its 2001 Request for Applications, Science to Achieve Results grant program. 21-24 February 2001.

**Ad hoc Reviewer**–


**Advisor** –


**CONTINUING EDUCATION**


**SERVICE FOR UNIVERSITY OF GEORGIA**

**D. B. Warnell School of Forest Resources Committees**

- Business Manager Staff Search (2005)
- Human Dimensions & Recreation Faculty Search (2005-2006)
- Forest Lands (2005 - present)
- Dean Search (2003)
- Graduate Affairs (2003 - present)
- Graduate Student Recruitment (2000 - 2002)
- Wildlife Extension Faculty Search (2000 - 2001)
- Wildlife Vertebrate Ecologist Faculty Search (2000 - 2001)
- E. L. Cheatum Award (1995 - present)

**University of Georgia Committees**

- University Council (2003 - 2004)
- Executive, Educational Affairs, Faculty Benefits, and Strategic Planning committees
- Faculty Admissions (1999 - 2001)
- Freshman Task Force Subcommittee of Faculty Admissions (2000 - 2001)

**MEMBERSHIP IN PROFESSIONAL SOCIETIES AND ACTIVITIES**

The Wildlife Society (1986 - present)

- Parent Chapter
  - Invited moderator of paper session, “Grassland Bird Species,” 1999 TWS Annual Conference
  - Reviewer, Contributed Papers Subcommittee, 1999 TWS Annual Conference
  - Ethnic and Gender Diversity Working Group Member (2005 – present) (was committee until 2007)
International Working Group Member (2006 – present)
  ▪ Manager of website (2007 – present)
Restoration Working Group Member (1995 - present)
  ▪ Symposium Organization Committee (1998)
  ▪ Officer Nomination Committee (1999 - 2002)
  ▪ Southeastern Representative (2000 - 2001)
Southeastern Section
  ▪ Elected Secretary / Treasurer (2006-2008)
Georgia Chapter
  ▪ President-Elect, President, Past-President (1997-2001)
  ▪ Member at Large (2005-2007)
Society for Range Management (1986 - present)
  National and Southern Sections
    ▪ Farm Bill (1996) Conservation Reserve Program Committee Member
    ▪ Wildlife Habitat Management Committee (2004-present)
Southeastern Quail Study Group (1996 - 2004)
  ▪ Research Committee Member
Association of Field Ornithologists (1992 - present)
Waterbird Society (formerly, Colonial Waterbird Society) (1995 - present)
Georgia Ornithological Society (1995 - present)

JOURNAL EDITORSHIP


Guest Editor—Southeastern Naturalist, 2004-2005

Ad hoc Reviewer--

New Forests, 2001
Southeastern Association of Fish and Wildlife Agencies Annual Conference Proceedings,
Southeastern Naturalist, 2004, 2005

SERVICE TO UNIVERSITY OF GEORGIA STUDENT GROUPS AND ORGANIZATIONS

Judge, Eighth Annual Warnell School of Forest Resources’ Graduate Student Symposium
Co-Faculty Advisor to the Southeastern Wildlife Conclave Quiz Bowl Team for the University of Georgia Student Chapter of The Wildlife Society (1995 - 2001).
Condensed Curriculum Vitae

Robert O. Teskey
Distinguished Research Professor
Daniel B. Warnell School of Forest Resources
University of Georgia
Athens, Georgia 30602
Tel: 706 542 5055 email: rteskey@uga.edu

Education

Doctor of Philosophy, University of Washington, 1982
Major: Tree Physiology
Master of Science, University of Missouri, 1978
Major: Forest Ecophysiology
Bachelor of Science, University of Illinois, 1975
Major: Forestry, Minor: Soils, Graduated with Honors

Professional Positions

Distinguished Research Professor, University of Georgia, 2001 – present
Associate Dean for Research and Service, Interim, University of Georgia 1999-2001
Professor, University of Georgia 1994 to 2001

Academic Instruction

Courses Taught at the University of Georgia:
FORS 8030 – Advanced Tree Physiology (3 credit hours) taught every other Spring semester in odd-numbered years.

Recent Professional and Educational Honors, Awards and Appointments

International Union of Forestry Research Organizations (IUFRO), Coordinator of Division 2.01 Physiology Working Groups, 2001-present.
Southern Forest Research Partnership, Senior Science Fellow & Science Committee Chair, 2002 –present
Northeast Forestry University, Harbin China, Honorary Faculty Appointment, 2005
United States-Japan Workshop on Global Change, Selected Participant, Tokyo, 2002
Gamma Sigma Delta Honor Society, President, University of Georgia Chapter, 2001
Crossley-Coleman Center for Biological Diversity and Ecosystem Processes, Executive Committee Member, 2001- present

Editorial Board Member

1986 - present -- Member of the Editorial Review Board, Tree Physiology
1995 – 2002-- Associate Editor, Canadian Journal of Forest Research
2000 - present – Advisory Committee, Eurasian Journal of Forest Research
2004 – Guest Associate Editor, Southern Journal of Applied Forestry

Publications

Journal Articles and Book Chapters (last five years)


Robert Joe Warren  
Daniel B. Warnell School of Forestry and Natural Resources  
University of Georgia  
Athens, GA 30602-2152  
Phone: (706)542-6474; FAX: (706)542-8356  
e-mail: warren@warnell.uga.edu

Education:  
B.S. (Zoology/Wildlife Ecology), Oklahoma State University, 1974  
M.S. (Wildlife Management), Virginia Polytechnic Institute and State University, 1976  
Ph.D. (Wildlife Biology), Virginia Polytechnic Institute and State University, 1979

Current Professional Position:  
Interim Dean, Meigs Professor and Graduate Faculty Member, Daniel B. Warnell School of Forest Resources, University of Georgia; also Faculty Member and Major Professor in the M.S. Program in Conservation Ecology and Sustainable Development, Institute of Ecology.

Former Positions  

Professional Society Membership:  
The Wildlife Society (Certified Wildlife Biologist, 1982)  
Wildlife Damage Management Working Group of The Wildlife Society  
Urban Wildlife Working Group of The Wildlife Society  
Southeastern Section of The Wildlife Society  
Georgia Chapter of The Wildlife Society  
American Society of Mammalogists  
Phi Kappa Phi (Honor Society)  
Sigma Xi (Scientific Research Society)  
Gamma Sigma Delta (Agricultural Honor Society)

Recent Professional Service:  

Recent Professional Awards:  

194
Special Award for outstanding service as President of The Wildlife Society, 2003.
Distinguished Senior Faculty Award, University of Georgia Chapter of Gamma Sigma Delta, 2001

**External Review or Expert Panel Service:**
Invited External Reviewer; Invited by the Director of the New Jersey Department of Environmental Protection to provide a critical scientific review of a literature review entitled “An Analysis of the Feasibility of Using Fertility Control to Manage New Jersey Black Bear Populations”; June 2006.

Invited Member, Scientific Advisory Panel, Berryman Institute-East, College of Forest Resources, Mississippi State University; 2003-present.

Invited External Program Reviewer, Department of Fisheries and Wildlife Sciences, South Dakota State University, USDA Cooperative State Research, Education, and Extension Service; co-authored a 24-page report; 2001.

**Instructional Achievements**
As major or co-major professor, Dr. Warren has directed 51 M.S. or Ph.D. graduate students. He currently teaches courses in Natural Resources Conservation; Introduction to Fish and Wildlife Management; Wildlife Physiology and Nutrition; Senior Project in Forest Resources Management; and Field Methods in Wildlife Research and Management.

**Research Proposals Funded:**
Since 1980, Dr. Warren has received more than $2 million in contracts or awards from state and federal agencies, and private organizations to support his research and technical work.

**Research Publications:**
Since 1975, Dr. Warren has authored or co-authored with students 107 technical articles in scientific journals, wrote 4 book chapters, edited or co-edited 4 books, and authored or co-authored with students 154 published abstracts from technical papers presented at scientific conferences.

**Past Research Experience:**
Dr. Warren’s professional interests include the ecology and management of wildlife in parks and urban/suburban areas, and wildlife physiology and nutrition. Since 1974, Dr. Warren has conducted research with a variety of mammalian and avian wildlife species. His past research focused primarily on physiological indices of nutritional and reproductive status in wild animals. Since 1983, he has conducted research to evaluate the ecological and population characteristics of white-tailed deer on Catoctin Mountain Park, MD; Cumberland Island National Seashore, GA;
Chickamauga National Battlefield Park, GA; Hilton Head Island, SC; and Kiawah Island, SC. He also has conducted research to restore native bobcats to Cumberland Island, GA; and to evaluate the ecological role of bobcats in controlling deer populations on Cumberland Island, GA and Kiawah Island, SC. Dr. Warren began conducting research in wildlife fertility control in 1985. He has evaluated the use of immunocontraception in feral horses on Cumberland Island, GA; immunocontraception in captive deer and horses; implantable steroid contraception in captive deer; contragestation in captive deer; and contragestation in wild deer in Minneapolis, MN and Kiawah Island, SC.

**Books and Technical Publications, 2001-2007:**


curriculum vitae of
MICHAEL J. YABSLEY

Warnell School of Forestry and Natural Resources and
Southeastern Cooperative Wildlife Disease Study
Department of Population Health
College of Veterinary Medicine
The University of Georgia
Athens Georgia, 30602

EDUCATION
Doctor of Philosophy in Veterinary Parasitology, May 2004
Department of Infectious Diseases, College of Veterinary Medicine
The University of Georgia; Athens, GA 30602
Master of Science in Zoology, May 2000
Department of Biological Sciences
Clemson University, Clemson, SC 29631
Bachelor of Science in Biological Sciences, minor in Wildlife Biology, May 1997
Clemson University, Clemson, SC 29631

PROFESSIONAL EXPERIENCE
Assistant Professor 3/2006- present
D.B. Warnell School of Forestry and Natural Resources (50%) and
Southeastern Cooperative Wildlife Disease Study (50%)
Department of Population Health,
College of Veterinary Medicine
University of Georgia, Athens, GA 30602
Position description: 50% research, 40% instruction, 10% service
Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA 30602
Position description: 70% research, 30% service
Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA 30602
Graduate Research Assistant 2000-2004
Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA 30602
Merial Ltd.
Athens, GA 30605

TEACHING EXPERIENCE
Instructor of record:
University of Georgia, Athens, GA

FORS 5930/7984  3 cr  Wildlife Disease Ecology and Management
Spring 2007  26 students

FORS 5930/7984  1 cr  Wildlife Health Monitoring Methodologies
Summer 2005  3 students
Summer 2006  3 students
Summer 2007  10 students

POPH/IDIS 8580  1 cr  Wildlife Disease Seminar (Current topics in Wildlife Population Health)
Fall 2006  9 students
Spring 2007  10 students

IDIS 8050  4 cr  Helminthology
Summer 2007  4 students

Undergraduate Research

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Course Name</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 1100</td>
<td>1 cr</td>
<td>Fall 2006</td>
<td>Conservation of Natural Resources</td>
<td>1 student</td>
</tr>
<tr>
<td>BIOL 3700</td>
<td>1 cr</td>
<td>Fall 2006</td>
<td>Animal Behavior</td>
<td>1 lecture</td>
</tr>
<tr>
<td>FORS 5310</td>
<td>2 cr</td>
<td>Spring 2005</td>
<td>Techniques in Wildlife Pop Mgmt</td>
<td>2 lectures/2 labs</td>
</tr>
<tr>
<td>FORS 8630</td>
<td>1 cr</td>
<td>Spring 2006</td>
<td>Vertebrate Biodiversity &amp; Conservation</td>
<td>1 lecture/ discussion</td>
</tr>
</tbody>
</table>

USDA, APHIS, Wildlife Services Training Course, Ft. Collins, CO

Necropsy and Biological Specimen Collection Training for Wildlife Biologists
Instructed on necropsy techniques of avian and mammalian hosts and gave presentations on diagnostic assays, specimen collection, specimen processing, and shipment of specimens
June 2004  45 students
June 2005  39 students
June 2006  37 students
June 2007  35 students

Guest Lectures:

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Course Name</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3700</td>
<td>Fall 2006</td>
<td>Animal Behavior</td>
<td>1 lecture</td>
</tr>
<tr>
<td>FORS 1100</td>
<td>Fall 2006, Spring 2007</td>
<td>Conservation of Natural Resources</td>
<td>1 lecture</td>
</tr>
<tr>
<td>FORS 5310</td>
<td>Spring 2005, 2006</td>
<td>Techniques in Wildlife Pop Mgmt</td>
<td>2 lectures/2 labs</td>
</tr>
<tr>
<td>FORS 8630</td>
<td>Spring 2006</td>
<td>Vertebrate Biodiversity &amp; Conservation</td>
<td>1 lecture/ discussion</td>
</tr>
</tbody>
</table>
VEM 5503 (UF CVM)  Veterinary Epidemiology  2 lectures  Spring 2005, 2006
FORS/PARA 8500  Wildlife Diseases I  3 lectures  Summer 2002, 2003, 2004
FORS/PARA 8510  Wildlife Diseases II  3 lectures  Summer 2002, 2003, 2004

**Graduate Teaching Assistant** – College of Veterinary Medicine, University of Georgia, Athens, GA
Veterinary Parasitology and Laboratory: PARA 5210 (4 semester hours)
  2002: Assisted lecturers in preparation of class material including lectures, group lessons, and examinations. Assisted in development, setup, and teaching of laboratories. Supervised several group study sessions
Advanced Veterinary Parasitology and Laboratory: PARA 5220 (1 semester hour)
  2003: Assisted in preparation and teaching of class lectures and laboratory sessions
Helminthology: PARA 8050 (4 semester hours)
  2004: Assisted lecturers with class material. Developed and supervised laboratory sessions.

**Laboratory Instructor and Teaching Asst.** – Dept. of Biological Sciences, Clemson University, Clemson, SC
Invertebrate Zoology: BIOSC 307 (3 semester hours)
  1997: Developed, setup, collected live specimens for demonstration, and instructed laboratories. Responsible for development, administration, and grading of examinations and practicals
Developmental Biology: BIOSC 447/667 (3 semester hours)
  1998: Setup and instructed laboratories. Responsible for development, administration, and grading of examinations and practicals
Medical & Veterinary Parasitology: BIOSC 447/667 (3 semester hours)
  1998-1999: Setup, collected live specimens for demonstration, and instructed laboratories. Responsible for development, administration, and grading of examinations and practicals
Human Anatomy and Physiology: BIOSC 222 (3 semester hours)
  1999-2000: Setup and instructed laboratories. Responsible for development, administration, and grading of examinations and practicals
Protozoology: BIOSC 871 (3 semester hours)
  2000: Setup, collected live specimens for demonstration, and instructed laboratories. Responsible for development, administration, and grading of examinations and practicals

**Research Mentor** -
College of Veterinary Medicine, University of Georgia, Athens, GA
Staci Murphy: (Fall 2004; Spring 2005; Fall 2005; Spring 2006)
“Characterization of piroplasms from wildlife in the Southeast” (Fall 2004)
“Molecular characterization of *Cytauxzoon felis* from Florida panthers” (Spring 2005)
“Field survey of raccoons for zoonotic tick-borne pathogens” (Fall 2005)
“Field survey of raccoons for zoonotic tick-borne pathogens” (Spring 2006)
Sean Adams (Fall 2006; Spring 2007)
“Experimental infection of dogs and deer with *Ehrlichia ewingii*”

**Georgia Veterinary Scholars Program, College of Veterinary Medicine, University of Georgia, Athens, GA**
Kate McMillan: “Infection dynamics of *Trypanosoma cruzi* in degus and short-tailed opossums” Summer 2007
Sean Adams: “Experimental infection of dogs and deer with *Ehrlichia ewingii*” Summer 2006
Sarah Clay: “Development of PCR-based assays for *Demodex*” Summer 2006
Staci Murphy: “Investigation of raccoons as potential reservoir hosts of zoonotic tick-borne pathogens – experimental infection trial” (Summer 2005)

**Center for Undergraduate Research Opportunities, University of Georgia, Athens, GA**
Wendy Fujito: “Investigation for genetic exchange in *T. cruzi* from the Southeast” (Spring 2007)
Mason Savage: “Diversity of tick-borne pathogens detected in ticks from Georgia” (Spring 2007)
Mason Savage: “Diversity of tick-borne pathogens detected in ticks from Georgia” (Fall 2006)
Mason Savage: “Diversity of tick-borne pathogens detected in ticks from Georgia” (Summer 2006)
Amanda Limbaugh “Detection of *Babesia* in falcons from the Middle East using PCR” (Summer 2006)
Mason Savage: “Molecular characterization of *T. cruzi* from the southern US” (Spring 2006)
Mason Savage: “Molecular characterization of *T. cruzi* from the southern US” (Fall 2005)
Mason Savage: “Biological characterization of wildlife isolates of *Trypanosoma cruzi*” (Summer 2005)
Erica Sessler: “Growth characteristics of *T. cruzi* in LIT medium” (Fall 2005)
Rhett Willis: “Biological characterization of raccoon isolates of *T. cruzi* from Georgia” (Fall 2005)

**GRADUATE COMMITTEES SERVED**
Appointed to full graduate faculty status at the University of Georgia in 2005

**Serve as Major Professor:**
Emily Brown (MS in progress) Warnell School of Forestry and Natural Resources
Jessica Murdock (MS in progress) Warnell School of Forestry and Natural Resources
Benjamin R. Wilcox (MS in progress) Warnell School of Forestry and Natural Resources
Dawn Roellig, MS (PhD in progress) Department of Infectious Diseases, College of Veterinary Medicine
Mason Savage (CURO Honors thesis) Animal and Veterinary Sciences

Serve on Graduate Committee
Current
Renee Carlton, DVM, PhD  S. Schwitzer  Warnell
Richard Gerhold, DVM  MS  J. Fischer  Pathology, College of Veterinary Medicine
Sue Howell  MS  R. Kaplan  Infectious Diseases, College of Veterinary Medicine
Eva Whitehead  MS  Institute of Ecology and Steve Golladay (Jones Center)

Completed
Jaime Manangan (MS December 2006)
   Major Professors:  M.C. Wimberly/S. Schwitzer, Warnell School of Forestry and Natural Resources
Jessica Rodriguez (MS May 2006)
   Major Professor: J.P. Carroll, Warnell School of Forestry and Natural Resources

SERVICE

ACADEMIC SERVICE
Department: Served as webpage editor (www.scwds.org) and assisted SCWDS Briefs

College: Research Coordination and Review Committee, WSFNR, 2006-present
   Graduate Student Recruitment, Dept of Infectious Diseases, CVM, 2007-present

University: Land Use Planning Assistant Professor Search Committee, Warnell School of Forest Resources

Clinical: Diagnostic Parasitology, Southeastern Cooperative Wildlife Disease Study, College of Veterinary Medicine, University of Georgia, Athens, GA
   2000-present

Editorial:
   Assistant Editor, Journal of Wildlife Diseases (2004-present)
   Editorial Board member, Wildlife Disease Association (2004-present)
   Referee, Journal of Parasitology, Parasitology Research, Veterinary Parasitology, Journal of Wildlife Diseases, Emerging Infectious Diseases, Journal of Zoo and Wildlife Medicine, Avian Pathology, Southeastern Naturalist

Administrative- Regional/National/International:
   Wildlife Disease Association
      On-line publishing and information transfer committee (2003-present)
      Student activities committee (2003-2004)
   Southeastern Society of Parasitologists
      Local arrangements committee (1998)
      Session moderator (2003, 2006)
Vice President (2006-2007)
Meritorious Service Award Committee (2007-present; 3 yr term)

Consultant:
  Veterinary Diagnostic Laboratory, College of Veterinary Medicine, University of Georgia – assist with clinical cases
  University of Tennessee College of Veterinary Medicine – assist with clinical cases
  2003, Consortium for Conservation Medicine, Palisades, New York
  2003-2004, San Diego Zoo, San Diego, CA
  2004-present, University of Tennessee College of Veterinary Medicine

AWARDS AND HONORS

2007  Competitive Travel Grant – University of Georgia Graduate Research Foundation
2005  Excellence in Research by Graduate Students Award, UGA Graduate School
       ($1,000)
2004  Terry Amundson best student presentation award, Wildlife Disease Association
       ($250)
2004  Pfizer Travel Award for Graduate Students ($500)
2004  Byrd-Dunn best student presentation award, Southeastern Society of Parasitologists
2004  Best student presentation award, Annual Research Day, CVM, UGA ($175)
2003-2004  Achievement Rewards for College Scientists (ARCS) Foundation Fellow ($5,000)
2003  Competitive Travel Grant – Graduate Affairs Committee, CVM, UGA ($750)
2003  Norval-Young Award, Society for Tropical Veterinary Medicine ($1,868)
2003  Competitive Travel Grant – University of Georgia Graduate Research Foundation
       ($1,150)
2003-2004  University of Georgia Graduate School Dissertation Completion Assistantship
       ($15,000)
2002  Wildlife Disease Association Scholarship ($2,000)
2002  Competitive Travel Grant – Graduate Affairs Committee, CVM, UGA ($750)
2002  Competitive Travel Grant – University of Georgia Graduate Research Foundation
       ($400)
2002  Meeting Scholarship – Southeastern Society of Parasitologists ($50)
2002  Class of 1958 Sidney Ewing Scholarship in Vector-Borne Parasitology ($250)
2000-2004  Graduate Research Assistantship – Southeastern Cooperative Wildlife Disease Study, UGA

GRANT SUPPORT

Pending


Current Funding


Purpose: To conduct research on pathogens in free-ranging wildlife that can cause disease in wildlife, domestic animals, or humans.


To fund the Southeastern Cooperative Wildlife Disease Study in order to provide wildlife disease field assistance to state wildlife agencies and to conduct necessary research on wildlife diseases.

Natural history of Borrelia lonestari. R56AI062834-01A1. NIH/NIAD. S.E. Little, E.F. Blouin, W.R. Davidson, M. K. Keel, K.M. Kocan, D.E. Stallknecht, M.C. Wimberly, and M.J. Yabsley (Co-PI). $331,200. 10% effort total grant; PI of $110,000 subcontract to UGA from OSU. 06/1/06-05/31/08

Purpose: This project supports investigations into the natural maintenance cycle of Borrelia lonestari in wildlife reservoirs and tick vectors.

Molecular and biological characterization of Trypanosoma cruzi from United States. R15 A1067304-01. NIH/NIAD. M.J. Yabsley (PI), A. E. Ellis, C.A. Hall, and M.A. Miles, $221,250. 10% effort. 7/01/06-6/30/09.

Purpose: To characterize T. cruzi isolates from wildlife, domestic animals, and humans from the United States and compare them to Latin American isolates.

USDA-APHIS-Wildlife Services Disease Training. USDA-APHIS. J.R. Fischer, J.L. Corn, M.K. Keel, and M.J. Yabsley (Co-PI). $150,000. 20% effort. 10/1/06-9/30/07.

Purpose: To provide training to Wildlife Services personnel regarding foreign animal diseases, zoonotic diseases, and other diseases with which wildlife may play a role in the epidemiology.

Past Funding

To fund the Southeastern Cooperative Wildlife Disease Study in order to provide wildlife disease field assistance to state wildlife agencies and to conduct necessary research on wildlife diseases.
Validation of a recombinant protein ELISA for detection of *Ehrlichia ewingii* in dogs and deer.
University of Georgia Research Foundation. M.J. Yabsley (PI). $6,200. 20% effort.
1/3/06-12/21/06.
Purpose: to validate a recombinant ELISA for sensitive and specific detection of
*Ehrlichia ewingii* in naturally and experimentally infected deer and dogs.

Vector-Borne Disease Surveillance - Wild Bird, Mosquito, and Tick Diagnostic Support.
To conduct surveillance for West Nile virus in mosquito and dead bird submissions and
test ticks for evidence of bacterial pathogens.

Diagnostic assays for *Borrelia lonestari*. R03AI060868. NIH/NIAD. S.E. Little, W.R. Davidson, D.E. Stallknecht, and M.J. Yabsley (Co-PI). $147,200. 15% effort. 7/1/05-6/30/07.
Purpose: The major goals are to develop diagnostic assays for *B. lonestari* and
specifically to refine culture methods, develop means of directly detecting organisms in
blood, develop specific molecular assays, and identify antigens that elicit production of
species specific antibodies.

Purpose: To apply concepts and methods from landscape ecology to improve our
understanding of the environmental constraints on vector and pathogen spread, and to
develop more effective methods for mapping pathogen distributions and disease risk.

USDA-APHIS-Wildlife Services Disease Training. USDA-APHIS. J.R. Fischer, J.L. Corn, and M.J. Yabsley (Co-PI). $150,000. 20% effort. 10/1/05-9/30/06.
Purpose: to provide training to Wildlife Services personnel regarding foreign animal
diseases, zoonotic diseases, and other diseases with which wildlife may play a role in the
epidemiology.

Raccoons as potential reservoir hosts of tick-borne zoonoses. Southeast Center for Emerging
Biologic Threats and the Centers for Disease Control and Prevention. M.J. Yabsley (PI), W.R. Davidson, D.E. Stallknecht, and A.S. Varela. $47,146. 40% effort. 10/1/04-8/30/06.
Purpose: To evaluate raccoons as potential reservoir hosts for the major tick-borne
zoonoses *Ehrlichia chaffeensis*, *E. ewingii*, *Anaplasma phagocytophilum*, and *Borrelia lonestari* and investigate potential cross reactivity with a novel *Ehrlichia*-like organism of
raccoons.

Southeastern Cooperative Wildlife Disease Study Contracts. 17 State Wildlife Agencies. J.R. Fischer, D. G. Mead, M. K. Keel, M.J. Yabsley (Co-PI). $326,060. 20% effort. 7/01/06-6/30/06.
To fund the Southeastern Cooperative Wildlife Disease Study in order to provide wildlife disease field assistance to state wildlife agencies and to conduct necessary research on wildlife diseases.


Natural history of Babesia species in wildlife from the southeastern United States. University of Georgia Research Foundation. M.J. Yabsley (PI). $8,300. 20% effort. 1/3/05-1/2/06. Purpose: To survey wildlife in the Southeast for infections with Babesia and other piroplasms. Positive samples will be characterized by amplification and sequencing of the 18S rRNA, ITS region, and beta-tubulin genes.

USDA-APHIS-Wildlife Services Disease Training. USDA-APHIS. J.R. Fischer, J.L. Corn, and M.J. Yabsley (Co-PI). $150,000. 20% effort. 10/1/04-9/30/05. Purpose: to provide training to Wildlife Services personnel regarding foreign animal diseases, zoonotic diseases, and other diseases with which wildlife may play a role in the epidemiology.


Grants submitted – NOT FUNDED

White-tailed deer as reservoir hosts and sentinels for Ehrlichia ewingii. NIH/NIAID. M. J. Yabsley (PI), S.E. Little, and T.P. O’Connor. $147,000. 15% effort. 1/2/06-12/31/07. revision November 2006.


NOTE: First year funded under R56 mechanism

White-tailed deer as reservoir hosts and sentinels for Ehrlichia ewingii. NIH/NIAID. M. J. Yabsley (PI), S.E. Little, and T.P. O’Connor. $147,000. 15% effort. 1/2/06-12/31/07. submitted February 2006.

Climatic variability, land-use change, and the ecology of Ehrlichia chaffeensis, a tick-borne zoonosis. National Science Foundation. Collaborative research total of $1,635,016. University of Georgia - M.J. Yabsley (PI) $855,024 and South Dakota State University - M.C. Wimberly (PI) and G.M. Henebry $779,992. submitted 2/06.
Experimental infection of white-tailed deer with *Ehrlichia ewingii*. VMES/UGA. 2006. M.J. Yabsley (PI), S.E. Little, T. O’Connor. $15,000.

Infection dynamics and virulence of *Trypanosoma cruzi* from the United States. American Heart Association. M. J. Yabsley (PI) and S. E. J. Gibbs, $110,000. 10% effort. Submitted January 2006.

Characterization of *Cytauxzoon felis* and a novel *Babesia* species from wild felids. M.J. Yabsley (PI), M.C. Cunningham. $92,986. 35% effort. 7/10/6-6/30/08. Morris Animal Foundation. submitted October 2005.

Natural history of piroplasms in wildlife from the southeastern US. Morris Animal Foundation. $97,746.

Characterization of piroplasms from wild felids. VMES/UGA. M.J. Yabsley (PI), M.W. Cunningham. $15,000.


White-tailed deer as reservoir hosts and sentinels for *Ehrlichia ewingii*. M. J. Yabsley (PI), S.E. Little, and T.P. O’Connor. $59,989. 15% effort. 1/2/06-12/31/07. submitted August 2005.

**PUBLICATIONS - Journal articles - Peer Reviewed**

†Student under Dr. Yabsley’s supervision
‡Dr. Yabsley served as senior (corresponding) author

**In preparation**


2. **Yabsley, Michael J.‡**, Staci M. Murphy†, M. Page Luttrell, David E. Stallknecht, and Susan E. Little. Experimental inoculation of raccoons with *Ehrlichia chaffeensis*, *E. canis*, *E. ewingii*, *Anaplasma phagocytophilum*, and *Borrelia lonestari*. Journal of Clinical Microbiology

4. Yabsley, Michael J.; Angela E. Ellis, David E. Stallknecht, and Elizabeth W. Howerth. Molecular characterization of Sarcocystis from hawks from Georgia (in prep).
6. Yabsley MJ, SM Murphy, MP Luttrell, DE Stallknecht, SE Little, LA Conti, CGM Blackmore, and LA Durden. Experimental and field studies on the suitability of raccoons (Procyon lotor) as hosts for tick-borne zoonoses

Submitted

3. Yabsley MJ, SM Murphy, MP Luttrell, BR Wilcox, EW Howerth, and UG Munderloh. Description of Neoehrlichia lotori gen. nov., sp. nov. (Family Anaplasmataceae) from raccoons (Procyon lotor). International Journal of Systematic and Evolutionary Microbiology
4. Yabsley MJ, AD Loftis, and SE Little. Detection of an Ehrlichia sp. that is closely related to Ehrlichia ruminantium in white-tailed deer (Odocoileus virginianus). Journal of Wildlife Diseases

Published or Accepted/In press


**PUBLICATIONS - Continuing education – Peer Reviewed**


2. **Yabsley, MJ.** 2006. NIH funds two new projects and SCWDS welcomes new grad students. SCWDS Briefs 22(2)


**PRESENTATIONS - INVITED SEMINARS AND PRESENTATIONS**

1. **Yabsley MJ.** Abomasal parasite counts of deer. Spring Director’s meeting of the Southeastern Fish and Wildlife Agencies. May 5, 2007. Athens, GA.

2. **Yabsley MJ.** Natural history of *Amblyomma americanum*-transmitted *Ehrlichia*. American Association of Veterinary Parasitologists. 2007. Washington, DC.


7. Yabsley MJ. Epidemiology of American trypanosomiasis. College of Veterinary Medicine, University of Georgia. Georgia Veterinary Scholars. February 9, 2007. Athens, GA.


15. Yabsley, Michael J. 2006. Overview of Diagnostic Testing. Given at the Wildlife Services, APHIS, USDA training session titled “Necropsy and Biological Specimen Collection Training for Wildlife Biologists”

16. Yabsley, Michael J. 2006. Specimen collection and sterile techniques. Given at the Wildlife Services, APHIS, USDA training session titled “Necropsy and Biological Specimen Collection Training for Wildlife Biologists”

17. Yabsley, Michael J. 2006. Specimen processing and shipping. Given at the Wildlife Services, APHIS, USDA training session titled “Necropsy and Biological Specimen Collection Training for Wildlife Biologists”


19. Yabsley, Michael J. Emerging tick-borne diseases: recent advances and the role of wildlife. Warnell School of Forest Resources, University of Georgia, Athens, GA. January 9, 2006.


22. **Yabsley, Michael J.** Role of white-tailed deer and raccoons as reservoir hosts of tick-borne ehrlichiae. Department of Biology. Georgia Southern University, Statesboro, GA. November 14, 2005.

23. **Yabsley, Michael J.** Role of white-tailed deer and raccoons as reservoir hosts of tick-borne ehrlichiae. Department of Pathobiology. Center for Veterinary Sciences, Oklahoma State University, Stillwater, OK. November 7, 2005.


27. **Yabsley, Michael J.** 2004. Specimen collection and sterile techniques. Given at the Wildlife Services, APHIS, USDA training session titled “Necropsy and Biological Specimen Collection Training for Wildlife Biologists”

28. **Yabsley, Michael J.** 2004. Specimen processing and shipping. Given at the Wildlife Services, APHIS, USDA training session titled “Necropsy and Biological Specimen Collection Training for Wildlife Biologists”


30. **Yabsley, Michael J.** Landscape epidemiology of *Ehrlichia chaffeensis*, an emerging tick borne zoonosis. Department of Biology, Berry College, Mt. Berry, GA. April 13, 2004.


32. **Yabsley, Michael J.** Use of white-tailed deer as natural sentinels for lone star tick vectored emerging zoonoses. College of Veterinary Medicine, University of Florida, Gainesville, FL. December 10, 2003.

33. **Yabsley, Michael J.** Lone star ticks, white-tailed deer, and emerging zoonotic pathogens in the southeastern United States. Clemson University, Clemson, SC. February 21, 2003.


**OTHER SCHOLARLY WORKS**


**PRESENTATIONS - Regional, national, international**

†Student under Dr. Yabsley’s supervision
1. †McMillan, K, DM Roellig, and MJ Yabsley. 2007. Infection dynamics of Trypanosoma cruzi strains from North and South America in degus (Octodondegus) and short-tailed opossums (Monodelphis domestica). Annual Merck/Merial Veterinary Scholars Symposium, Bethesda, MD.

2. †McMillan, K, DM Roellig, and MJ Yabsley. 2007. Infection dynamics of Trypanosoma cruzi strains from North and South America in degus (Octodondegus) and short-tailed opossums (Monodelphis domestica). Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.


9. Yabsley, MJ, AD Loftis, and SE Little. 2007. Natural and experimental infection of white-tailed deer (Odocoileus virginianus) with an Ehrlichia sp. from the United States closely related to Ehrlichia ruminantium. Wildlife Disease Association, Estes Park, CO


12. †Brown Wildlife Disease Association, Estes Park, CO

13. †Murdock Wildlife Disease Association, Estes Park, CO


26. †Murdock, JH, **MJ Yabsley**, C Ramaswamy, T O’Connor, and SE Little. 2007. Use of white-tailed deer as sentinels for *Borrelia* spp. in the eastern United States. Southeastern Society of Parasitologists. Charleston, SC.

27. †Brown, EL and **MJ Yabsley**. 2007. Seroprevalence of *Trypanosoma cruzi* in raccoons and opossums from Georgia. Southeastern Society of Parasitologists. Charleston, SC.

28. †Murdock, JH, **MJ Yabsley**, C Ramaswamy, and T O’Connor. 2007. Use of white-tailed deer as sentinels for *Borrelia* spp. in the eastern United States. Warnell School of Forestry and Natural Resources Graduate Student Symposium. Athens, GA.

29. †Brown, EL and **MJ Yabsley**. 2007. Seroprevalence of *Trypanosoma cruzi* in raccoons and opossums from Georgia. Warnell School of Forestry and Natural Resources Graduate Student Symposium. Athens, GA.


Rickettsia rickettsii in North Carolina. 44th Annual meeting of the Infectious Diseases Society of America, Toronto, Canada.


35. †Murphy, SM, MJ Yabsley, MP Luttrell, DE Stallknecht, and SE Little. 2006. Experimental inoculation of raccoons (Procyon lotor) with Ehrlichia chaffeensis, Ehrlichia canis, Ehrlichia ewingii, Anaplasma phagocytophilum, and Borrelia lonestari. Annual meeting of the American Society of Rickettsiology, Pacific Grove, CA.


38. †Adams DS, MJ Yabsley, TP O’Connor. 2006. Experimental infection of domestic dogs with Ehrlichia ewingii. Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.

39. †Clay SA, MJ Yabsley, SE Gibbs, M Austel. 2006. Characterization of Demodex from white-tailed deer. Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.

40. †Adams DS, MJ Yabsley, TP O’Connor. 2006. Experimental infection of domestic dogs with Ehrlichia ewingii. Annual Merck/Merial Veterinary Scholars Symposium, Baton Rouge, LA.


42. Ruiz, Alina, Kevin Keel, Andy Davis, Michael Conroy, Michael Yabsley, Larry Morris, Aaron Fisk, and John Maerz. 2006. Measuring the success of wetland treatment systems: can we use frogs?. Clayton County Water Authority Natural Treatment Systems meeting, Clayton, GA.


44. †Manangan, Jamie S., Michael J. Yabsley, Nathan Nibbelink, and Michael C. Wimberly. 2006. A spatial analysis of two tick-borne pathogens in the Mississippi Alluvial Valley based on white-tailed deer serum samples. Annual Meeting of The Wildlife Disease Association, Storrs, CT.

45. †Manangan, Jamie S., Michael J. Yabsley, and Michael C. Wimberly. 2006. Hitchhiking bacteria: Spatial analysis of two tick-borne pathogens in the Mississippi Alluvial Valley. Annual Warnell School of Forest Resources Graduate Student Symposium, Athens, GA.
†Savage, Mason Y. and Michael J. Yabsley. 2006. Sequence polymorphisms in the mismatch-repair (TcMSH2) and glutathione-S-transferase (Tc52) genes of Trypanosoma cruzi isolates from United States. Annual Meeting of the Southeastern Society of Parasitologists, Gatlinburg, TN.

†Savage, Mason Y. and Michael J. Yabsley. 2006. Sequence polymorphisms in the mismatch-repair (TcMSH2) and glutathione-S-transferase (Tc52) genes of Trypanosoma cruzi isolates from United States. Center for Undergraduate Research Opportunities Symposium, Athens, GA.


†Murphy, Staci M., Michael J. Yabsley, M. Page Luttrell, David E. Stallknecht, and Susan E. Little. 2006. Experimental inoculation of raccoons (Procyon lotor) with Ehrlichia chaffeensis, Ehrlichia canis, Ehrlichia ewingii, Anaplasma phagocytophilum, and Borrelia lonestari. Annual Meeting of the Southeastern Society of Parasitologists, Gatlinburg, TN.

†Murphy, Staci M., Michael J. Yabsley, David S. Peterson and Mark W. Cunningham. 2005. Characterization of piroplasms from cougars (Puma concolor) from Florida. National Veterinary Scholars Program Symposium, Athens, GA.

Yabsley, Michael J. and Staci M. Murphy†. 2005. Diversity of Babesia and Hepatozoon in wildlife. Annual Meeting of the Southeastern Society of Parasitologists, Blacksburg, VA.

†Murphy, Staci M., Michael J. Yabsley, David S. Peterson and Mark W. Cunningham. 2005. Characterization of piroplasms from bobcats (Lynx rufus) and cougars (Puma concolor). Annual Meeting of the Southeastern Society of Parasitologists, Blacksburg, VA.

Hobbi, Tracy, Ashley Wimsatt, Brad Meers, Emily Pierce, Michael Yabsley, and Chris Hall. 2005. Biological and immunological characterization of a Trypanosoma cruzi isolate from Coastal Georgia. Annual Meeting of the Southeastern Society of Parasitologists, Blacksburg, VA.

Hall, Christopher A., Jordan Allem, Tracy Hobbi, Michael J. Yabsley, and Mario J. Grijalva. 2004. Factors associated with the epidemiology and biology of Trypanosoma cruzi in the southeastern United States. Annual meeting of the American Society of Tropical Medicine and Hygiene, Orlando, FL.


62. Yabsley, Michael J. 2004. Geographical distribution, molecular characterization, and landscape epidemiology of *Ehrlichia chaffeensis*. Departmental seminar for Dept. of Medical Microbiology and Parasitology, College of Veterinary Medicine, University of Georgia, Athens, GA.

63. Yabsley, Michael J., Vivien G. Dugan, David E. Stallknecht, Susan E. Little, Ethan J. Sims, and William R. Davidson. 2003. Molecular variation in the variable length PCR target (VLPT) and 120-kDa antigen genes of *Ehrlichia chaffeensis* from white-tailed deer. Annual meeting of the Wildlife Disease Association, Saskatoon, Saskatchewan, Canada.

64. Yabsley, Michael J., Vivien G. Dugan, David E. Stallknecht, Susan E. Little, and William R. Davidson. 2003. Distribution and Molecular Heterogeneity of *Ehrlichia chaffeensis* from White-tailed Deer (*Odocoileus virginianus*). Biennial meeting of the Society of Tropical Veterinary Medicine, Iguassu Falls, Brazil.


STARI (Southern Ticks-Associated Rash Illness), in white-tailed deer (*Odocoileus virginianus*) from the southeastern United States. Annual Meeting of American Association of Veterinary Parasitologists. Nashville, TN.


70. Tate, Cynthia, Ulrike Munderloh, Page Lutrell, Daniel Mead, Elizabeth Howerth, Vivien Dugan, **Michael Yabsley**, and William Davidson. 2002. Experimental transmission and isolation of a novel *Ehrlichia* sp. from white-tailed deer. Annual Molecular Parasitology and Vector Biology Symposium. Athens, GA.


81. Yabsley, Michael J., Vivien G. Dugan, Cynthia M. Tate, David E. Stallknecht, Susan E. Little, Andrea S. Varela, William R. Davidson. 2002. *Ehrlichia chaffeensis* and *Ehrlichia ewingii* in white-tailed deer: evaluation of a sentinel system. Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.

82. Dugan, Vivien G., Joseph K. Gaydos, Michael J. Yabsley, Susan E. Little, Ashley D. Beall, and Colin C. Hurd. 2002. Detection of *Ehrlichia* spp. in raccoons (*Procyon lotor*) from Georgia. Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.

83. Varela, Andrea S., David E. Stallknecht, Michael J. Yabsley, Victor A. Moore, and Susan E. Little. 2002. Primary and challenge infection by the tick-borne agent, *Ehrlichia chaffeensis*, in white-tailed deer (*Odocoileus virginianus*), and evaluation of domestic goats as a reservoir host model. Annual Veterinary Research Day. College of Veterinary Medicine, University of Georgia, Athens, GA.

84. Yabsley, Michael J., Susan E. Little, David E. Stallknecht, Vivien G. Dugan, Cynthia M. Tate, and William R. Davidson. 2002. White-tailed deer as sentinels for the delineation of the geographic distribution of *Ehrlichia chaffeensis*. Joint annual meetings of the Association of Southeastern Biologists and the Southeastern Society of Parasitologists. Boone, NC.


86. Yabsley, Michael J. 2001. Epizootiology of *Ehrlichia chaffeensis* and white-tailed deer in the southeastern United States. Departmental seminar for Dept. of Medical Microbiology and Parasitology, College of Veterinary Medicine, University of Georgia, Athens, GA.


89. James, Michael J., Michael J. Yabsley, Oscar J. Pung, and Mario J. Grijalva. 2001. Amplification of *Trypanosoma cruzi* specific DNA sequences in formalin-fixed raccoon tissues using the polymerase chain reaction. Annual meeting of the Southeastern Society of Parasitologists. Rome, GA.

90. Yabsley, Michael J., Dana L. Ambrose, Charlotte F. Quist, Roy L. Patch, and Pamela G. Parnell. 2001. Pathology associated with *Andersonstrongylus captivensis* infection of three
pet striped skunks. Annual meeting of the Southeastern Society of Parasitologists. Rome, GA.


**PROFESSIONAL AFFILIATIONS**
Southeastern Society of Parasitologists
Helminthological Society of Washington
American Society of Tropical Medicine and Hygiene
Society for Tropical Veterinary Medicine
American Society of Rickettsiology

American Society of Parasitologists
Sigma Xi
Wildlife Disease Association
The Wildlife Society