

## Fisheries and Wildlife Program News

### Department and Program Information and Faculty Achievements

#### Inside this issue:

Department and Program Information and Faculty Achievements 1

Recent Publications, Reports, Presentations, and Funding 13

Upcoming Events 14

Job Opportunities and Scholarships 14

Giving Back 14

#### Fisheries and Wildlife Students Graduate

On December 14, 2005, 13 students received a Bachelor of Science in Fisheries and Wildlife from North Carolina State University. The students were **William Creef, Jason Edwards, Sarah Ferguson, Bryan Hicks, Matthew Holbrook, Kim Jervis, Kyle Mackenzie, Anna McMillian, Casey Phillips, Michael Shepherd, Wendy Welborn, Heather Yanno, and Stephanie Zolkowski**. Two students received a Master of Science in Fisheries and Wildlife. The students were **Andrea Kleist** (advisor **Dr. Phil Doerr**) and **Jennifer Miller** (advisor **Dr. George Hess**). Additionally, **Dr. Jonathan Shaw** (advisor **Dr. Richard Lancia**) received his Doctor of Philosophy in Forestry.



From left to right: **Bryan Hicks, Kyle Mackenzie, Stephanie Zolkowski, Michael Shepherd, Jason Edwards, Jonathan Shaw, and Kim Jervis**. Photo provided by **Dr. Chris DePerno**.



**Stephanie Zolkowski** giving the Commencement Address to fellow graduating students in the Department of Forestry and Environmental Resources. Photo provided by **Cindy Burke**.

**Dr. Dick Lancia** with graduate **Anna McMillian**. Photo provided by **Dr. Chris DePerno**.



*Graduation!*



**Drs. Chris DePerno, Phil Doerr, Jonathan Shaw, and Dick Lancia**. Photo provided by **Cindy Burke**.

**Casey Phillips, Cindy Burke** (Program Assistant for the Fisheries and Wildlife Science Program), **Dr. Phil Doerr, Stephanie Zolkowski, and Dr. Dick Lancia**. Photo provided by **Dr. Chris DePerno**.



## Wildlife and Fisheries Sciences Holiday Party a Huge Success!

On December 12, 2005, the Fisheries and Wildlife Sciences Program held their annual Holiday Party. The party had the largest turnout in recent history. Food and refreshments were enjoyed by all. The annual event was the perfect way to kick off the holiday season.



**Drs. Chris Moorman and Nick Haddad** strategizing over food and punch. Photo provided by **Dr. Chris DePerno**.

*The Fisheries and Wildlife Sciences Open House kicks off the holiday season.*

Retired Fisheries and Wildlife Professor **Dr. Rich Noble** and **Dr. Wilson Laney** enjoying the Fisheries and Wildlife Sciences Holiday Party. Photo provided by **Dr. Chris DePerno**.



**Stephanie Zolkowski** (recent Fisheries and Wildlife Program graduate) and **Dave Woodward** at the Fisheries and Wildlife Sciences Holiday Party. Photo provided by **Dr. Chris DePerno**



**Dr. Dick Lancia and Dave Woodward** posing at the Fisheries and Wildlife Sciences Holiday Party. Photo provided by **Dr. Chris DePerno**.

**Cindy Burke** (Program Assistant for the Fisheries and Wildlife Science Program) trying to escape the camera. Photo provided by **Dr. Chris DePerno**.



*Party Pictures.*



**Dr. Chris Moorman, Leslie Chadwell** (Division of Forest Resources Urban and Community Forestry Program), and **Dr. Suzanne Kennedy-Stoskopf** being interrupted by the annoying cameraman. Photo provided by **Dr. Chris DePerno**.

Future NCSU students, **Alexandra and Christopher DePerno**, thinking about destroying a piece of smoked salmon. Photo provided by **Dr. Chris DePerno**.



## **Recent Fisheries and Wildlife Graduate Begins a new job**

Recent Fisheries and Wildlife Sciences Graduate, **Ed Corey**, was hired as an Environmental Specialist II (Inventory Biologist), with the North Carolina Parks and Recreation Department. Corey will be responsible for biological inventory and monitoring projects throughout the State Park System, maintaining the natural resources inventory database, and monitoring scientific research conducted throughout the state park system. His position will require him to identify and prioritize information needs for biological inventorying on a park-by-park basis and he will oversee the continuation of a number of inventory projects including: small mammal trapping, amphibian surveys, and inventory design at new state park units. Congratulations Ed.

## **Dr. Richard A. Lancia nominated by the College of Natural Resources for the Board of Governors' Award for Excellence in Teaching**

**Dr. Richard A. Lancia**, Fisheries and Wildlife Sciences Program Coordinator, was nominated by the College of Natural Resources for the Board of Governors' Award for Excellence in Teaching. This award, coordinated by the Office of the Provost, is the most prestigious award given to faculty for teaching excellence. The Board of Governors' Award for Excellence in Teaching was established in 1993 to underscore the importance of teaching and to encourage, identify, recognize, reward, and support good teaching within the university.

[http://www.ncsu.edu/provost/awards/BOG/bog\\_overview.html](http://www.ncsu.edu/provost/awards/BOG/bog_overview.html)

## **Jordan Lake Crappie Research highlighted in the News and Observer**

Crappie research and monitoring is being done on Jordan Lake by North Carolina Wildlife Resource Commission Biologists Brian McRae and Corey Oakley (a recent NCSU Zoology graduate with a M.S. in Fisheries and Wildlife Sciences). During the fall and winter months, McRae and Oakley set trap nets around Jordan Lake to sample the crappie population. The fish were weighed and measured, and some were removed to age the animals. The sagittal otoliths, ear bones, were viewed under a microscope to determine the age of the fish, much like rings on a tree stump. The research is being conducted to evaluate the 2004 regulations (10-inch length minimum and 20-fish creel limit) instituted on the lake to give the younger fish a chance to spawn before being harvested. The biologists believe it is science in action. They will continue to monitor the population, growth rate, and condition of the fish. The data will determine if the regulation needs to remain in place or be adjusted. However, it appears the new regulation is helping to keep Jordan Lake at the forefront of crappie fisheries.

<http://www.newsobserver.com/802/story/375341.html>

*Dr. Richard Lancia  
nominated for the  
Board of Governors'  
Award.  
Congratulations!*

## Turner House Pond Construction

Recently, Fisheries and Wildlife Faculty and Students installed a wildlife friendly pond at the Turner House. The pond is part of the Turner House Native Landscaping Project. Funding for the pond was obtained by undergraduate students, **Jane Anderson**, **Gabe Karns**, **Michael Horne**, and **Robert Snow** from the College of Natural Resources.



**Dr. Chris Moorman**, **Robert Snow**, and **Caroline Reddy** supervise as **Michael Horne** breaks ground on the pond construction. Photo provided by **Dr. Phil Doerr**.

*Turner House Pond  
Construction!*

**Dr. Chris Moorman**, **Robert Snow**, **Dr. Chris DePerno**, and **Michael Horne** continue working on the Turner House pond. Photo provided by **Dr. Phil Doerr**.



The finished pond at the Turner House. Come by and have a look. Photo provided by **Dr. Phil Doerr**.

## Turner House Patio Construction

During January 2006, Fisheries and Wildlife Faculty and Students constructed a wood patio at the Turner House. Many hours were spent on the patio and there were many sore legs and backs! The deck is part of the Turner House Native Landscaping Project.

**Drs. Phil Doerr and Dick Lancia** measuring and cutting. Photo provided by **Dr. Chris DePerno**.



**Drs. Chris DePerno and Chris Moorman** working on the patio frame. Photo provided by **Dr. Phil Doerr**.

*Turner House Patio  
Construction!*

The finished patio at the Turner House. Come by and have a look. Photo provided by **Dr. Phil Doerr**.



## Water Conservation at the Turner House

On Thursday, January 26, 2006, the first of 2 rain barrels was installed at the Turner House. The rain barrels will be used to supplement the drip irrigation system and keep the native plants well watered. The rain barrels are part of the Turner House Native Landscaping Project. **Drs. Dick Lancia, Phil Doerr,** and **Chris DePerno** assisted with installation. Rain barrels were donated by Wake Soil and Water Conservation District.



*Water conservation at  
the Turner House!*

**Dr. Dick Lancia** and the first of 2 rain barrels at the Turner House. Come by and have a look. Photo provided by **Dr. Phil Doerr**.

## Upcoming seminar - Cheetah Population Management

On February 20, 2006 at 4 p.m. in the South Theater (Room B112) of the College of Veterinary Medicine, **Dr. Adrienne Crosier** from the Smithsonian's Center for Research and Conservation will present a seminar, "**Connecting the Spots: Linking Reproductive Technologies with Cheetah Population Management**".

Dr. Crosier worked several years in Namibia with cheetahs and received her Ph.D. in Animal Science (Reproductive Physiology) from North Carolina State University.

## **Seminar Series a joint effort between North Carolina State University and the North Carolina Wildlife Resources Commission**

The Centennial Campus Center for Wildlife Education will host a FISHERIES AND WILDLIFE SEMINAR SERIES beginning in March. The series is a joint effort between North Carolina State University and the North Carolina Wildlife Resources Commission. Please join us for refreshments and listen to current research and issues on fisheries and wildlife topics. The following seminars will be given this spring. Please contact Jessica Ball for more information at [jessica.ball@ncwildlife.org](mailto:jessica.ball@ncwildlife.org) or (919) 707-0203.

**Wednesday, March 15—3:30 p.m. to 5:00 p.m.**

**"Carolina Curiosities: Market Hunting, Mexican Quail, Moravian Wolf Hunters, and Other Little-Known Wildlife Odysseys from the Old North State"**

Drawing from his ongoing research into the history of North Carolina wildlife from European contact to the present, writer **T. Edward Nickens** will share some of the little-known aspects of wildlife management in the Tar Heel State. This far-ranging lecture will range from the 1500s to the 2100s, from the humorous to the serious, and from the nature of science to the nature of humans striving mightily to manage the amazing wildlife resources of North Carolina. T. Edward Nickens is the author of nearly 1,000 magazine articles. Editor-at-large of *Field & Stream*, he is also a contributor to *National Wildlife*, *Audubon*, *Smithsonian*, *Men's Journal*, and *Wildlife in North Carolina*.

**Wednesday, April 12—3:30 p.m. to 5:00 p.m.**

**"Building for Sustainability"**

The N.C. Wildlife Resources Commission is in its first year of occupancy in its unique green building on Centennial Campus. **Gordon Myers**, Division Chief of Engineering Services, will discuss how the agency went from concept to design, construction and operation of this ambitious facility which exemplifies the Commission's mission of conservation.

**Wednesday, May 10—3:30 p.m. to 5:00 p.m.**

**"Gorillas, red wolves, feral cats, and more: A veterinarian's research on the wild side"**

**Dr. Michael Stoskopf**, DVM, Ph.D. will give an overview of his research that spans a diversity of species and continents, from animals as glamorous as gorillas and sea turtles to less attractive critters like feral cats. Dr. Stoskopf is an internationally recognized veterinarian and faculty member in the College of Veterinary Medicine at North Carolina State University.

*NCSU and NCWRC  
Seminar Series.*

2006 FRED & JOAN BARKALOW DISTINGUISHED CONSERVATIONIST  
LECTURE (#26)

**MARCH 14, 3:30-5:00 PM**  
2010 BILTMORE HALL

**How many wolves are enough?**  
**Biology, ethics and politics of the wolf-human interface.**

**LUIGI BOITANI, Ph.D.**

Professor, Conservation Biology and Animal Ecology, University of Rome



*Luigi Boitani, Ph.D.,  
coming to NCSU!*

**Dr. Boitani** has studied and written about wolves for decades as well as the social ecology, population dynamics, movement patterns, habitat selection and sexual selection of lynx, red fox, stone and pine martens, polecat, wild boar, ibex, Mediterranean monk seal, feral and stray dogs, hare, hedgehog, river otter, brown bear, elephant seal, and bats.

An internationally prominent conservation biologist, Dr. Boitani has written or supervised conservation reserve and park plans in much of Africa, central & South America, the Philippines, as well as Italy.

Sponsored by:

North Carolina Wildlife Federation & Conservation Education Foundation  
North Carolina State University Fisheries & Wildlife Sciences Program  
N.C Chapter of The Wildlife Society

Funded Annually by Joan M. Barkalow

Public Lecture

### Summer Intern at DWQ -- 2005 (submitted by Bryn Tracey)

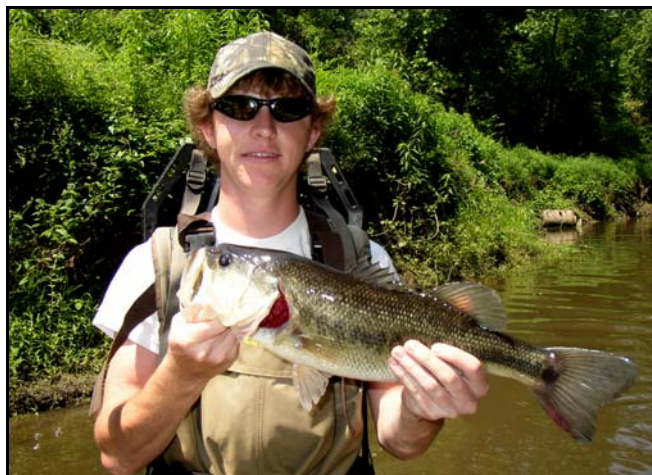
Tyler Averett, a rising Junior in Fisheries & Wildlife Sciences at NCSU, became the most recent alumnus of a summer internship with the Division of Water Quality's Biological Assessment Unit. This was the third year that the Division worked with NCSU's College of Natural Resources to co-fund an internship position (<http://www.sdafs.org/ncafs/Newsletters.htm>).

During his internship, Tyler assisted in the sampling of 34 streams in the lower Neuse River basin in Jones, Craven and Pitt counties and in the Broad River basin in Cleveland, Rutherford, and Polk counties. On his first day on the job, Tyler learned that, in Coastal Plain streams, just putting one foot in front of the other can be more of a challenge than trying to shoulder a backpack shocker. Some of the Coastal Plain streams sampled were tannin stained and flowing through a natural channel while others were crystal clear with channels "straight as an arrow." He was able to sample a stream near his own backyard and could not believe how diverse the fish community was and how big the largemouth bass were.

Tyler assisted in fish tissue contaminant sampling as part of the Division's on-going, statewide low level mercury study. At the bow of the electrofishing boat, Tyler netted largemouth bass and catfish from the Black, Lumber, Roanoke, and Haw rivers and from Lake James and High Rock Lake. When not in the field, Tyler assisted in the laboratory identification of 83 fish community samples. By the end of the summer Tyler had learned to identify more than 50 percent of our state's freshwater fauna. He proved adept at noting the differences between *Nocomis leptocephalus* and *N. raneyi*, *Etheostoma nigrum* and *E. olmstedii*, *Moxostoma collapsum* and *M. pappillosum*, *Cyprinella labrosa* and *C. zanema*, and *Cyprinella chloristia* and *C. pyrrhomelas*. A Down East fisherman by birth, Tyler was in awe of the beauty of our native fauna and never knew that dazzling species such as fieryblack and Piedmont shiners and seagreen and Roanoke darters could be found in our wadeable streams.

*Tyler—well done!*

One of the critical life lessons that Tyler learned was that days in the field start early, much earlier than his classes at NCSU! As with his predecessors, Tyler provided much needed assistance to the Division's Basinwide Fish Community program. As a young fisheries professional, Tyler gained critical skills in the field and laboratory identification of many species of freshwater fish. Also, he widened his experience in wadeable stream backpack electrofishing techniques, data entry into an Access database, instream and riparian habitat assessments, water quality instrumentation, and most importantly, in teamwork. Although Tyler may have been easily floated downstream by a swift current, he was long on staying power. The youthful enthusiasm he brought and his eagerness to learn was greatly appreciated by the Staff.



## Study Abroad Program — Namibia 2006

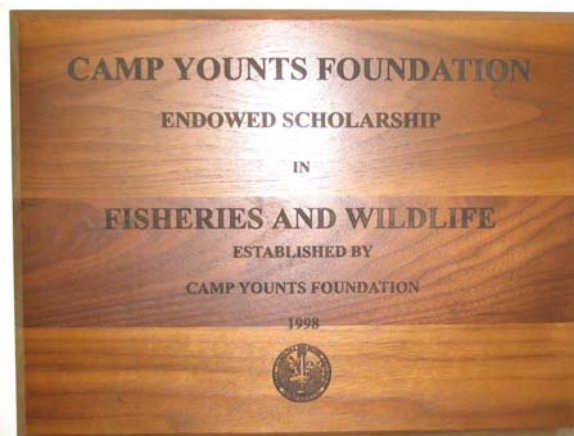
The preliminary date for next years tour to Namibia is from May 21 – June 10, 2006. If you are interested in joining this once in a lifetime tour or have any questions please contact: **Dr Werner Dörgeloh** (Wildlife Ecologist) [wgdorgel@unity.ncsu.edu](mailto:wgdorgel@unity.ncsu.edu). Also, more information can be found at [http://www.cfr.ncsu.edu/for/fishwildlife/study\\_tour/studytour\\_2006.html](http://www.cfr.ncsu.edu/for/fishwildlife/study_tour/studytour_2006.html) Namibia. Photo provided by **Dr Werner Dörgeloh**.



*Study Abroad  
Program—Namibia  
2006.*

### **\$10,000 from Hal Atkinson and the Camp Younts Foundation for summer internships**

Hal Atkinson, representing the Camp Younts Foundation donated \$10,000 to the Fisheries and Wildlife Program for support of student summer internship. This generous donation will support 10 scholarships for undergraduate internships.



## Fisheries and Wildlife Sciences Program students excel.

During the Fall 2005 semester, the following Fisheries and Wildlife Sciences Program students earned a grade point average greater than 3.5.

**Nathan Beasley** - Sophomore  
**Jessie Birkhead** - Sophomore  
**Edmund Burnett** - Junior  
**Christopher Hill** - Junior  
**Michael Horne** - Junior  
**Gabriel Karns** - Senior  
**Brent Mortimer** - Senior  
**Amy Raybuck** - Junior  
**Sarah Watts** - Freshman  
**James Wilson** - Sophomore

Congratulations to all and keep up the good work!

### FOR SALE at the Wildlife Store—T-shirts and Hats Proceeds benefit the Leopold Wildlife Club

Shirts = \$10 for Leopold Wildlife Club Members (all sizes available)

Shirts = \$12 for non-members

Hats = \$12 for Leopold Wildlife Club Members

Hats = \$15 for non-members

*Fisheries and Wildlife  
 Students excel!  
 Congratulations!*

We will mail items to you (please add \$3.00 shipping/handling). Please specify size and make checks out to **Leopold Wildlife Club** and mail checks to **Cindy Burke**, NCSU, Fisheries and Wildlife Sciences Program, Turner House, Box 7646, Raleigh, NC 27695-7646.



## Recent Publications, Reports, Presentations, and Funding

### Publications & Reports

Neal, J. W., N. M. Bacheler, **R. L. Noble**, D. Shea, and **W. G. Cope**. 2005. The mystery of Dos Bocas Reservoir, Puerto Rico: explaining extreme spatial heterogeneity in largemouth bass distribution. *Caribbean Journal of Science*. 41:804-814.

**Pollock, K. H.** and R. Alpizar-Jara. 2005. Open capture-recapture models. *In* S. C. Amstrup, T. L. McDonald and B. F. J. Manly (Eds.). *The Handbook of Capture-Recapture Analysis*. Princeton University Press, Princeton, N.J.

Hoenig, J. M., K. H. Pollock, W. S. and Hearn. 2005. Tag-return models. *In* S. C. Amstrup, T. L. McDonald and B. F. J. Manly (Eds.). *The Handbook of Capture-Recapture Analysis*. Princeton University Press, Princeton, N.J.

### Presentations

**Catts, G., C. S. DePerno**, and **R. A. Lancia**. 2006. Cost-effective Integration of Spatial Technology into a Natural Resources Curriculum. 6th Biennial Conference on University Education in Natural Resources, Michigan State University, East Lansing, Michigan.

**Douglass, K. E.** 2006. Chronic wasting disease surveillance in North Carolina. 29th Annual Meeting of the Southeast Deer Study Group Meeting, Baton Rouge, LA.  
(**K. E. Douglass** = Fisheries and Wildlife Sciences M.S. Student)

**Reddy, C., C. S. DePerno**, and **C. E. Moorman**. 2006. Landscaping for Wildlife: A Demonstration on the North Carolina State University Campus. 6th Biennial Conference on University Education in Natural Resources, Michigan State University, East Lansing, Michigan.  
(**C. Reddy** = Fisheries and Wildlife Sciences Undergraduate Student)

**Tomberlin, J. W., M.C. Conner**, L.I. Muller, **R.A. Lancia**, D. A. Osborn, B. F. Miller, R. J. Warren, and K. V. Miller. 2006. Comparison of Xylazine/Telazol to Medetomidine/Ketamine/Telazol for Immobilization of White-Tailed Deer. 29th Annual Meeting of the Southeast Deer Study Group Meeting, Baton Rouge, LA.  
(**J. W. Tomberlin** = Fisheries and Wildlife Sciences M.S. Student)

*Recent publications and  
reports!*

## Upcoming Events

### Leopold Wildlife Club

The next meeting for the Leopold Wildlife Club will be Tuesday, February 14, 2005 at 7:00 pm in 102 David Clark Lab.

**Note:** Conclave practice will be held at 6:00 pm **EVERY** Tuesday during February in 102 David Clark Lab.

## Job Opportunities and Scholarships

Please see the NC State Fisheries and Wildlife Sciences website for additional information, current position announcements, scholarship opportunities, and links to job websites.

<http://www.cfr.ncsu.edu/for/fishwildlife/>

## Giving Back

*Giving Back!*

### Giving Back

It only takes a moment to make a huge impact. NC State offers a wealth of programs that educate students and provide assistance to the community, but we need your help. Your contribution to the College of Natural Resources can make a huge impact on all facets of university life and ensure that these valuable programs can continue. The College of Natural Resources needs the support of our alumni and friends. Please consider making a gift today through the NC State Annual Fund or contact Jennifer Viets Catalano at 919-513-7734 or [jennifer\\_viets@ncsu.edu](mailto:jennifer_viets@ncsu.edu).

Also, you may consider giving to our 2 Summer Camp student endowments (1 Fisheries, 1 Wildlife). These endowments help undergraduate students attend the Wildlife and Fisheries Summer Camp. For more information on how to contribute, contact Dr. Richard Lancia at 919-515-7586 or [richard\\_lancia@ncsu.edu](mailto:richard_lancia@ncsu.edu).

Compiled and edited by:

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*Contact Dr. Chris  
DePerno with questions  
or comments.*



**Huge Cottonmouth captured at Bull Neck Swamp**

On 19 July 2005, graduate student **Stan Hutchens** (advisor **Dr. Chris DePerno**) captured this 1200 mm (47.24 in) cottonmouth (*Agkistrodon piscivorous*) at Bull Neck Swamp, Washington County, North Carolina. The snake weighed 2400 grams (5.3 lbs). As part of his graduate work, *Inventory and Assessment of the Herpetofauna of Bull Neck Swamp, Washington County, North Carolina*, Stan implanted a passive integrated transponder (PIT) into the snake. Stan hopes to recapture the snake in 2006.