

CANCAS SPEAKERS LIST
Updated January 2007

To request a speaker, please click on the appropriate email link. This will automatically email the speaker as well as send a copy of the email to the Lecture Program Coordinator, Dr. Lisa Bonner (lbonner@peace.edu)

BIOLOGICAL ANTHROPOLOGY

Andrea B. Taylor

Duke University Medical Center DPT
Division, Box 3907 Durham, NC
27710
(919) 668-3016
andrea.taylor@duke.edu
[Request Dr. Taylor](#) as a speaker

Seminar Topic(s): Great ape functional morphology, behavioral ecology, and life history.

- a) Masticatory biomechanics in primates, focusing on the relationship between feeding behavior, diet, and skull formation in the great apes in order to better understand the ecological factors that shaped human evolution.
- b) The functional and clinical implications of jaw-muscle fiber architecture in primates.

* Willing to travel a couple of hours to give a seminar but this is difficult in the fall as I am in class four days a week. The spring is easier because I don't teach.

BIOLOGY

K. Bridget Brosnihan, Ph.D.

Wake Forest University
Medical Center Blvd Winston
Salem, NC 27157
(336)716-2795
(336) 716-2456 (fax)
bbrosnih@wfubmc.edu
[Request Dr. Brosnihan](#) as a speaker

Seminar Topic: Hypertension and Vascular Disease Center

BIOLOGY *(continued)*

Larry Cahoon,
UNC-Wilmington
Department Biology And Marine Biology
Admin Division Academic Affairs
Campus Address Dobo Hall 210
(910) 962-3706
cahoon@uncw.edu
[Request Dr. Cahoon](#) as a speaker

Seminar topics: an environmental analysis of the state's swine industry, discussion of North Carolina's ocean resources, discussion of my research on benthic and near-bottom production in North Carolina coastal ocean waters, and discussion of our research on the dynamics of fecal contamination in estuarine waters

Jeffrey Coker
Elon University
Department of Biology
Campus Box 2625 Elon,
NC 27244
(336) 278-6206
jcoker@elon.edu
[Request Dr. Coker](#) as a speaker

Seminar Topic(s): "The Future of Trees"

- a) Anything related to science education, teaching careers, etc.
- b) Trees are changing in remarkable ways on ecological, cellular, and genetic levels. I will talk about the selective pressures on trees in the modern world, how trees are changing, and how trees could change in the future due to selection, genetic engineering, and management practices. This discussion will include my own work on the genetics and evolution of wood formation.

* I'll drive about 2 miles for every person who might attend my lecture. If you think you can put together 50 people, I'll drive 100 miles, etc. I might make exceptions to this depending on my schedule, so feel free to ask.

BIOLOGY *(continued)*

JaNae Joyner

Wake Forest University Medical Center

Medical Center Blvd

Winston Salem, NC 27157

(336) 716-7857

(336) 716-3812 \

jjoyner@wfubmc.edu

[Request Ms. Joyner](#) as a speaker

Seminar Topic(s):

- a) What it is like to be a graduate student and how to apply to graduate school.
- b) The renin angiotensin system during pregnancy and preeclampsia. Pregnancy is characterized by activation of the renin-angiotensin system (RAS). Our group was the first to demonstrate that the vasodilator peptide of the RAS, angiotensin-(1-7) [Ang-(1-7)], was increased in the urine and plasma during normal pregnancy and that plasma Ang-(1-7) levels decreased to a greater extent than angiotensin II (Ang II), the vasoconstrictor peptide of the RAS, in preeclamptic patients as compared to their normal pregnant counterparts. These findings suggested a potential role for Ang-(1-7) counterbalancing the effect of Ang II during the course of pregnancy and in pregnancy induced hypertension (PIH).

Chishimba Nathan Mowa

Appalachian State University

Assistant Professor, Department of Biology

Rankin Science North Building Boone, NC 28607

(828) 262-2676

mowacn@appstate.edu

[Request Dr. Mowa](#) as a speaker

GRADUATE STUDIES

Julius L. Harp, Associate professor of Chemistry
NASA Langley Research Center
Advanced Materials and processing Branch
Mail Stop 226
Hampton , VA 23681-2199
Fax: 757-864-8312
Business: 757-864-7342
harpj@ncat.edu
[Request Dr. Harp](#) as a speaker

Seminar Topic: Preparing for Graduate Success

*Willing to drive to give a seminar: @ 3Hrs

MATHEMATICS AND COMPUTER SCIENCE

Amos O. Olagunju, Dean of Graduate Studies and Research
Winston Salem University
Anderson Center, Suite C017
Winston Salem, NC 27110
(336) 750-2322
olagunjuao@wssu.edu
[Request Dr. Olagunju](#) as a speaker

Seminar Topic(s): From Programming to Theorems and Proofs: A new
Perspective

Questions often arise, whether or not, there is only one way to present and proof a theorem implicit in an algorithm for solving a real-world problem. Consider for example, real life problems that can be expressed as a congruence modulus n and split into a system of congruence equations in modulus factors of n . A system of congruence equations can be combined into a congruence equation under certain conditions. The generalized Chinese Remainder Theorem (CRT) is useful for combining systems of congruence equations into single congruence equations. This seminar will uniquely present the derivation novel theorem from computer algorithms, using the CRT as an example. A variety of unique applications of the CRT will be discussed. A variety of cryptographic program will be exhibited.

* Willing to drive to give a seminar: 400 miles

PHYSICS

Timothy M. Ritter

Associate Professor of Physics

Dept. of Chemistry & Physics

UNC Pembroke

Pembroke, NC 28372

910-521-6320

tim.ritter@uncp.edu

[Request Dr. Ritter](#) as a speaker

Seminar Topic(s): NASA's Reduced Gravity Student Flight Opportunities Program

NASA's Reduced Gravity Student Flight Opportunities Program (RGSFOP) is designed to inspire students interest in science, engineering and technology. The program provides select undergraduate student teams, from around the country, the opportunity to successfully propose, design, fabricate, fly and evaluate a reduced gravity experiment of their choice on board the famous "Weightless Wonder" C-9 aircraft. The overall experience includes scientific research, hands-on experimental design, test operations and educational/public outreach activities. This talk will discuss the RGSFOP, how any college team can participate, and the UNC Pembroke/UNC Charlotte microgravity research teams experiences over the past four years. For additional details visit our web site at:
www.uncp.edu/home/ritter/KC135/KC135home.html

- * Willing to travel to any location within North Carolina (the further the drive, the more advance noticed required, please)