CANCAS REPORT
NCAS BOARD MEETING, May 10, 2012

➢ New CANCAS Officers and Campus Liaisons (2012-2013)
President: Jennifer Floyd Mount-Olive University
Vice President: Sam Kelly Guilford College
Secretary: Katie St Clair Campbell University
Historians: Tatum Lemly and Michael Khayat
Campus Liaison Morgan Gregg Elon University
Campus Liaison K.T. Piotrowski Campbell University
Campus Liaison Canna Zheng Guilford College
Campus Liaison Leah Sigmon Lenoir-Rhyne University
Campus Liaison Vacant? Mount Olive College

• CANCAS Executive Officers and student officers/board members will meet in August to set the strategic plan for 2012-2013.

➢ Faculty on Executive Committee for 2012-2013
Co-Director: Dr. Michele Malotky Guilford College
Co-Director: Dr. Erin Lindquist Meredith College
Faculty Advisor: Dr. Karen Guzman Campbell University
Yarbrough Grants Coordinator Dr. Yuko Miyamoto Elon University

➢ Fall Undergraduate Research Workshop
  o The 2012 workshop will be co-hosted by Bennett College, Guilford College and Greensboro College (tentative). The date and location are still under discussion. The workshop will focus on career and graduate school preparation as well as research skills. After our first joint venture last year, NCSAS members will be attending the workshop.
  Dr. Steve Warshaw will coordinate the NCSAS participation and organize a special session or two focused on college research opportunities for the NCSAS students. CANCAS students will also share their college research experiences with NCSAS students.

➢ NCAS Annual Meeting (March 23-25, 2012 @ Campbell University):
  o A new rubric for was used for judging CANCAS posters and oral presentations this year. There were 62 posters and 37 oral presentations at the meeting.
  o Deriux Awards:
    Oral Presentations- Microbiology, Cell Biology, and Biotechnology
    1. Marcus Ford*, Victoria Ellis, Morgan Campbell, Sandra Westergaard, John Bartlett- Campbell University. Prevalence of Methacillin Resistant Staph Aureus (MRSA) on Campbell University Campus and the Efficacy of Current Cleaning Products
2. Morgan J. Gregg* and Dr. Yuko J. Miyamoto- Elon. Examining The Role of mTOR if T cell Proliferation Under Immunosuppression by Rapamycin

3. Lydia B. Shedlofsky- Guilford College. The effect of mutating the FMN riboswitch into the permanently off position on the virulence of P. luminescens

Oral Presentations- Physiology, Toxicology, Biochemistry, Health & Environmental Sciences I & II

1. Melanie A. Kemp* and Vicki Collins- Warren-Wilson College. Palatability and Nutritive Content of Wolffia for Warren Wilson College Laying Hens

2. (tie) Janna A. Joyner- Peace College. Analysis of PCB accumulation within trophic levels of biota inhabiting an EPA superfund watershed.

2. (tie) Jessica Schaner* and Dean Kahl- Warren Wilson College. Untapped Abundance: Antioxidants in Edible Invasive Plants


4. (tie) Laura M. Lilley* and Dr. Dean Kahl- Warren Wilson College. The Mutarotation of Glucose in Dimethyl Sulfoxide

Oral Presentation- Zoology, Botany, and Ecology

1. Andres Camacho- Lenoire-Rhyne College. Behavioral response of subterranean termite Reticulitermes virginicus as a result of exposure to acoustical vibrations

2. Alice Sloan* and Michael Torres- Warren Wilson College. The Suitability of Lower Peterson Creek (Queensland, Australia) as Habitat for the Platypus, Ornithorhynchus anatinus


Poster Session- Ecology, Toxicology, Health Sciences Physiology and Science Education

1. Victoria Ellis* and Karen Guzman- Campbell University. Lasting effects of chronic caffeine dosage on heart rate, growth rate and activity of zebrafish embryos


Poster Session- Cellular, Molecular Biology, Biotechnology, Biochemistry, and Pharmacology

1. Grace Anderson, Almagul Kanafina, Emily Lehman, Paul Steimle- UNCG. Identification and Characterization of a Myosin II Heavy Chain Kinases (MHCK-D) in Dictyostelium

2. (Tie) Brittany L. White- Elon. The establishment of successful talin knockdown and appropriate conditions for inducing focal adhesion kinase (FAK) phosphorylation in mammalian cells (HEK293AD)

2. (tie) Ben Dyer and Michelle S. Thomas- Campbell University. Cloning and Characterization of the Coxiella burnetii Macrophage Infectivity Potentiator Protein
3. Michael T. Wyngarden, Mary B. Hawkins-NCSU. Binding Properties and Function of *M. undulatus* Estrogen Receptors with Chlordane and the Effects of Amino Acid Mutation on Binding

**Poster Session- Microbiology, Chemistry, & Astronomy**
1. Jeremy D. Griffin and David N. Judge- Gardner-Webb University. Analysis of Pungency Chemicals in Ginger Soft Drinks by HPLC
2. Ashley Williams and Parke Rublee-UNCG. Do physical characteristics and human use affect the aquatic microbial community of lakes on Mount Desert Island, Maine?
3. David R. Citron, Taek You, Larsen, and Sang Seob Lee-Campbell University. Discovery and Identification of Environmental Microorganisms from Soil Samples of Buies Creek, North Carolina

**Poster Session- Zoology/Botany**
1. Lindsey M. Stanley, Mariana V. Gattegno, Jelena Y. Atkins, and David H. Dommer-Mount Olive College. Wavelength-dependent effects of light on the geotactic response of 2nd instar larval *Drosophila melanogaster*
2. Krystal T. Piotrowski and John C. Havran- Campbell University. Floral Morphological Comparison of Two Closely Related Hawaiian Violets
3. LaShonda M. Caine, Bobbie J. Legg, Sean P. Graham and David A. Beamer- Nash CC. The Phylogeography of the Seepage Salamander (*Desmognathus aeneus*)

- **New Guidelines for abstract submission**
  - A TAG was created to craft a new set of guidelines for abstract submission at the NCAS meeting. A copy of the guidelines will be posted at the CANCAS website and should be linked/referenced at the host meeting site each year.

- **CANCAS Membership dues**
  - Changes to CANCAS membership dues were proposed and voted on during the CANCAS officers meeting on March 24th 2012. The following changes to the fees are summarized below:
    - Undergraduate membership $10 → $20 (e-journal)
    - Group membership $40 → $60
  - journal subscriptions. Do undergraduates want the journal and will it have an impact on undergraduates?
  - what is considered small and large institution?

- **Yarbrough Grants**
  - Check to see that all recipients from last year attended and presented at the meeting this spring
o We propose that faculty mentors can mentor only one proposal submitted for the Yarbrough Grants competition each year.

o We propose that each institution has a limit to the number of proposals submitted each year. Any suggestions on limit?

o We propose that each sponsoring faculty member must be a member of NCAS at the time of grant submission, and the student’s institution must be a current member of CANCAS.

o The grant proposal review committee will meet on May 20th to select the funded proposals for 2011.

Goal for CANCAS in 2011/2012: Increase student participation in CANCAS through increasing the involvement of officers and campus liaisons in the organization and encouraging them to attract new, active members at their home institutions.

Respectfully submitted: Michele Malotky, Executive Co-Director, May 9, 2012