NCAS/CANCAS 2014 Annual Meeting
North Carolina State Museum of Natural Sciences

The annual meeting of the North Carolina Academy of Science was held on March 27-28 at the North Carolina State Museum of Natural Sciences in Raleigh. The theme of the meeting was “Applying Evolution to Medicine and the Environment.” In addition to the beautiful venue for the meeting, highlights included a plenary address by Dr. Randolph Nesse (Arizona State University), and a keynote address by Rob Dunn (North Carolina State University).

During the evening poster session there were 32 posters presented by Undergraduate students and 12 by NCAS members. The Saturday oral sessions were comprised of 35 undergraduate and 18 NCAS research presentations. Below is a list of the Derieux Research award winners:

Posters: Chemistry, Physics, Biotechnology and Behavioral Science
2. McCormick, John. Inhibition of Peroxynitrate-Induced DNA Damage by Caffeine. (UNC-Greensboro)

Posters: Zoology, Botany, Ecology and Environmental Science
1. Spillman, Taylor, Finn Furstenthaler, Duncan Cameron, Jay Bolin. Isotopic Investigation of Mycoheterotrophy in the Southern Blue Thread (Burmannia capitata). (Catawba)
2. Akers, Nathaniel T. and David A. Beamer. Does the Northern Two-Lined Salamander (Eurycea bislineata) occur in North Carolina? (Nash Community College)
3. (tie) Crocker, Chelsea L., Zachary W. Privette, Ismael Gomez, Sean P. Graham* and David A. Beamer.

Posters: Cell & Development, & Physiology (9)
1. Baba, Kayla, Brittan Hodges*, Karen Guzman. Expression of Oxidative Stress Markers in Zebrafish After Acetaminophen Treatment. (Campbell)
2. Rahman, Meredith, Michael C. Granatosky¹, and Daniel Schmitt. Effects of habitual loading on bone material properties in the mammalian post-cranial skeleton. (Duke)
3. (tie) Askew, Lauren, Claire Gordy, and Mara Duncan. Glucose Starvation Induces Microautophagy in Yeast Cells. (UNC-Chapel Hill)
3. (tie) Fuller, Rachelle, Melissa Macias, Karen Guzman. Expression of Chondrocyte Markers in ATDC5 Cells Exposed to Osmotic Stress. (Campbell)

Posters: Microbiology, Molecular Biology and Genetics
1. Neal, Aaron J., Lauren E. Chun, & Robert L. Spencer, Basal mRNA Expression of Clock Gene Bmal in the Hippocampus and the Amygdala of Male and Female Rats. (North Carolina A&T)
2. (tie) Fowler, Conner, Morgan Packer, Michael Wisniewski, Gregory Buhrman, and Taek You. Engineering and Expressing an Upstream Insulin Promoter-binding Fusion Protein. (Campbell)

The whole of science is nothing more than a refinement of everyday thinking. ~Albert Einstein
NCAS Meeting/ Derieux Awards Cont.

Orals: Zoology, Botany and Ecology
2. (tie) Moore, C. Travis and Megan White. A Tale of Two Gardens: Comparing the Aquatic Ecosystems of Two Public Gardens, Greensboro, NC. (Guilford College)
2. (tie) Dunbar, Matthew G., Nathalie Fortin, Guillaume Meisterhans, Christine Michel, Thomas L. King, Charles W. Greer. Bioremediation of Oil in the Arctic Sea by Indigenous Bacteria. (Guilford College)
3. Caine, LaShonda and David A. Beamer. Extreme genetic homogeneity: Phylogeography of the red and mud salamanders. (Nash Community College)

Orals: Physics and Engineering and Environmental Science
1. Thompson, Marc, Pinar Huri and Warren Grayson. Printing Cell-Laden Alginate Fibers (North Carolina A&T)
2. Overbey, Katie and Jill Stewart. Sewage Impacts on Water Quality and Antibiotic Resistance in Beach Waters in the Galápagos Islands (UNC-Chapel Hill)

Orals: Microbiology, Chemistry, Health and Behavioral Science
1. Healy, Mark. Solvent Effects on the Copper(I)/TEMPO-Catalyzed Aerobic Oxidation of Primary Benzylc Alcohols. (Campbell)

Orals: Genetics and Molecular Biology
1. Worthy, Kelsey, Zhong Fang and Patricia C. Dos Santos. The Role of Cysteine Desulfurase (NifS) of Bacillus subtilis in the Assembly of the [4Fe-4S] Cluster of Quinolinate Synthase (NadA). (Guilford College)

2. (tie) Thomas, Phillip, Richard Graveline, Seyun Choi and Gregory David. An Unbiased Screen Identifies New Pf1 Interactions, with Biological Significance in Chromatin Modification and Transcriptional Control. (North Carolina A&T)
2. (tie) Harrison, Krystal, Soviyan Kallakuri and Zhaoxia Sun. Dissecting the underlying mechanisms involved in brain hemorrhage in cilia mutants. (North Carolina A&T)

CONGRATULATIONS WINNERS!

ANNOUNCEMENTS:

1. Yarbrough Undergraduate Research Grants: All applications for the 2014-15 Yarbrough grants are now being accepted. Please follow the instructions outlined at the website (http://www.ncacadsci.org/CANCAS/Yarbrough/Yarbrough_Call_2014final.pdf). All materials must be submitted by April 15, 2014 for consideration.

2. New Officers for 2014-15 Academic Year:

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<th>President</th>
<th>David Creasman</th>
<th>Campbell University</th>
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<td>Vice President</td>
<td>Brenten Bottoms</td>
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<td>Caleb Brown</td>
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<td>Historians</td>
<td>Avery Olearczyk</td>
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<td>Morgan Packer</td>
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<td>Campus Liaisons</td>
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There are still liaison positions available for other member institutions. Please contact Dr. Michele Malotky (mmalotky@guilford.edu) if you are interested in serving or have nominations for a potential candidate.

News to share? All news items, comments and suggestions can be directed to Dr. Michele Malotky (mmalotky@guilford.edu).

CHEERS!

Remember to pay your annual CANCAS dues at the beginning of the academic year!
WWW.CANCAS.ORG