New CANCAS Officers and Campus Liaisons

CANCAS Officers and Campus Liaisons for the 2013-2014 year were elected at the Annual NCAS meeting in April. Positions are still available for Campus Liaisons from member schools. Please contact any of the officers if you are interested in serving.

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Affiliation</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Michael Khayat</td>
<td>Guilford College</td>
<td><a href="mailto:khayatmm@guilford.edu">khayatmm@guilford.edu</a></td>
</tr>
<tr>
<td>Vice President</td>
<td>Brenten Bottoms</td>
<td>Barton College</td>
<td><a href="mailto:blbottoms@bulldogs.barton.edu">blbottoms@bulldogs.barton.edu</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Kelsey Worthy</td>
<td>Guilford College</td>
<td><a href="mailto:kjworthy@gmail.com">kjworthy@gmail.com</a></td>
</tr>
<tr>
<td>Historians</td>
<td>David Creasman</td>
<td>Campbell University</td>
<td><a href="mailto:dacreasman1229@email.campbel">dacreasman1229@email.campbel</a></td>
</tr>
<tr>
<td></td>
<td>Megan Bucek</td>
<td>Mount Olive College</td>
<td><a href="mailto:mpb5860@moc.edu">mpb5860@moc.edu</a></td>
</tr>
<tr>
<td></td>
<td>Anthony Fata and Kelly Allen</td>
<td>Elon University</td>
<td><a href="mailto:afata@elon.edu">afata@elon.edu</a></td>
</tr>
<tr>
<td></td>
<td>Gabriel Gore,</td>
<td>Guilford College</td>
<td><a href="mailto:gregk@guilford.edu">gregk@guilford.edu</a></td>
</tr>
<tr>
<td></td>
<td>Logan Bearfield</td>
<td>Lenoir – Rhyne University</td>
<td><a href="mailto:logan.bearfield@m.y.lr.edu">logan.bearfield@m.y.lr.edu</a></td>
</tr>
<tr>
<td></td>
<td>Alicia Vazquez</td>
<td>Mount Olive College</td>
<td></td>
</tr>
</tbody>
</table>

The CANCAS/NCAS Annual Meeting was held at the University of North Carolina- Pembroke on April 4-6, 2013. CANCAS members, representing schools from across the state presented posters and presentations. Derieux Awards for Excellence in Undergraduate research were presented at the banquet and awards Program. Award Recipients in each category are listed below:

**Oral Presentations - Biotechnology, Molecular Biology, Microbiology and Cell and Development**

1. **Sarah Lewis** (Mount Olive). The response of differentiating colorectal cancer cells to the DNA topoisomerase II inhibitor, Etoposide.

2. (tie): **Kristine Elizabeth Parks** (Meredith) and Janna Nicole Kukelhan. Isolation and purification of nifN gene from Klebsiella pneumoniae.


**CANCAS NEWS NOTES**

Collegiate Academy of the North Carolina Academy of Science

May- July 2013

The whole of science is nothing more than a refinement of everyday thinking. ~Albert Einstein
Remember to pay your 2012-2013 dues at the beginning of the academic year!

WWW.CANCAS.ORG

Derieux Awards cont.

Oral Presentations- Chemistry, Physics, Science Education and Health Science
1. Melissa. Rhoney (Lenior_Rhyne), The effect of vitamin C (ascorbic acid) on the growth of Escherichia coli.
2. (tie): Leah Sigmon (Lenior-Rhyne). The effect of vitamin E supplementation on the maintenance of tetanus antibody levels in Equus caballus.
   (tie): Mary Reding (Warren Wilson), and D. Kahl. Aflatoxins in peanut butter measured using enzyme linked immunosorbsorbant assay (ELISA).
3. Nicholas Mangum (Campbell) and Jason Ezell. Gamma ray emitting isotopes in the environment and their relative intensities.

Oral Presentations: Botany, Zoology, Ecology and Environmental Science
1. Mary Podgorak-Lagro (Catawba) and Jay Bolin. An evaluation of hybrid intermediacy in the germination ecology of Ashe’s Sumac, Rhus asheii (Rhus michauxii X Rhus glabra).
3. (tie): Amelia Snyder (Warren Wilson) and J. Brock. Migration of metals from a coal ash pond into the sediment of the French Broad River.
   (tie): Kristoffer Wild (UNC-Pembroke), and John H. Roe. Risk and response of box turtles to prescribed fire.

Poster Presentations: Cell and Development, Physiology and Microbiology:
1. Allison L. Nogi (Elon U), The effects of acrylamide (AA) ingestion on liver and sciatic nerve function.
2. (tie): Ameya S. Kulkarni (North Carolina State U), and Mary Beth Hawkins. Investigating the differential binding affinity of genistein to ERs α and β using site-directed mutagenesis of ERβb, an estrogen receptor subtype found in a teleost fish.
   (tie): Franklin Trent Beeninga (North Carolina State U) and Mary B. Hawkins. Site-directed mutagenesis of a single amino acid in the ligand-binding domain of teleost ERβ alters its binding affinity to RU486.
   (tie): Chris Smith (Campbell), Erin Byrd, Natalia Goh, Michelle Thomas, Erik Hill and Sharon Mason. Isolating fluoroquinolone resistant gram-negative organisms from porcine fecal matter.

Poster Presentations: Botany, Ecology, Environmental Science and Zoology:
1. Marlon R. Barber (Catawba), and Constance Rogers-Lowery. Effects of ocean acidification on growth of a marine hydroid.
   (tie): LaShonda M. Cain (Nash Community College), Jessica M. Avila, David A. Beamer, and Sean P. Graham. Diversification of seepage salamanders across a complex geologic landscape.
3. (tie): Jessica M. Avila (Nash Community College), Brenton L. Bottoms, and David A. Beamer. Morphological variation within mountain dusky lineages (Desmognathus).
   (tie): Anna Sanford (UNC-Pembroke) and Patricia Sellers. Plankton diversity of Krinshaw Pond.
Yarbrough Research Grant Recipients:
The Yarbrough Research Grants program supports undergraduate research by providing grants to students who submit proposals judged meritorious of support. Approximately 10 grants are awarded annually, typically ranging from $30 to $500. Recipients for 2012/2013 are listed below:

**Fully Funded:**
1. Jessica Avila, Nach Community College
2. Hannah Billian, Warren Wilson College
3. Sara Dietrich, Warren Wilson College
4. Austin Patton, Warren Wilson College

**Partial Funding:**
1. Todd Elliott, Warren Wilson College
2. Michi Steward, Nunez, Warren Wilson College
3. Stephanie Williams, Warren Wilson College

**Honorable Mention:**
1. Holly Baldwin, Lenoir-Rhyne University
2. Logan Bearfield, Lenoir-Rhyne University
3. Paul Frye, Catawba College
4. Matthew McConnell, Catawba College
5. Christopher Ragsdale-Davidson College

The next round of grants for 2013/2014 are due in April, 2014. For more details, visit the CANCAS site: (http://www.ncacadsci.org/CANCAS/Yarbrough.html)

Undergraduate Research Workshop
Planning for the Fall Undergraduate Research Workshop is underway. More details to come!

www.cancas.org

Stay Informed! If you are a faculty advisor, please remember to forward the news notes to your students. If they would like the News Notes to reach them directly, please have them send a request to Michele Malotky (mmalotky@guilford.edu) indicating their name, email and which group (club, department) with which they are associated.

Final Note:
Do you have news to share? All news items, suggestions and comments can be directed to Dr. Michele Malotky (mmalotky@guilford.edu) Cheers!

Cheers!

Join Us on Facebook!