



Annual Meeting Update

Don't miss the 113th annual meeting of the North Carolina Academy of Science at Methodist University!

Volume 4,
Issue 2

November 2015

What's going on in
the North Carolina
Academy of Science:

- Calls for Volunteers & Nominations
- CASCAS Fall Workshop Event Report



SAVE THE DATE! 113th NCAS Annual Meeting

April 1-2, 2016 | Times: TBD

Location:

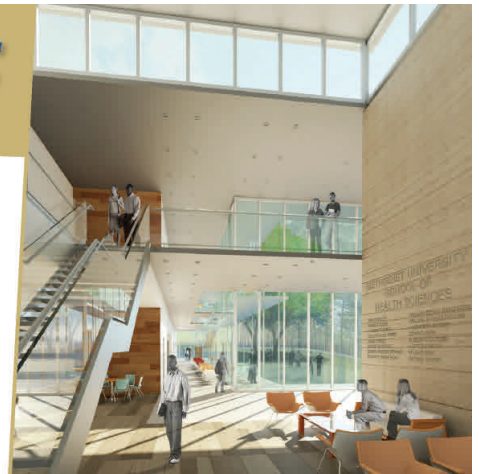
The new Thomas R. McLean Health Sciences Building,
Methodist University

THEME:

It isn't easy being green, or is it?

A S.T.E.M.-Based Approach at What It Means to Be "Green."

methodist.edu | facebook.com/MethodistUniversity
910.630.7000 | 5400 Ramsey Street, Fayetteville, N.C. 28311



The new Thomas R. McLean Health Sciences Building



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Call for Judges

We are seeking volunteers to serve as judges for research posters and oral presentations that are being considered for Derieux Awards for Research Excellence during the 2016 Annual Meeting of the North Carolina Academy of Science. The meeting will be held at Methodist University on April 1-2. Qualifying undergraduate posters will be presented and judged during the evening session on Friday, April 1st. Oral papers will be presented and judged on the morning of Saturday, April 2nd. A grading rubric for the poster and oral papers will be provided to volunteers prior to the meeting. For more information on the Derieux Award please visit the CASCAS website: <http://www.ncacadsci.org/cancas/Derieux.html>.

We are also in need moderators for each of the oral paper sessions on Saturday. Moderators can be either faculty or students. Please contact Michele Malotky (mmalotky@guilford.edu) or Beth Overman (beth_overman@ncsu.edu) if you are willing to serve in either capacity. There will be the opportunity to sign up during the online registration process.

Call for Astronomy Days Volunteers

Notice by: Dr. Lisa Kelly, Pembroke University

If you have stardust in your eyes, if you love gazing up at the heavens, or if you enjoy small children and the excitement of discovery, consider volunteering a few hours of your time this coming January. The Academy will be hosting an exhibit for Astronomy Days on 30-31 January 2016. The Academy has participated in several Astronomy Days, always a popular two-day event at the North Carolina Museum of Natural Sciences in Raleigh. Crowds of children and their parents flock to the museum to enjoy talks, exhibits, hands-on crafts and demonstra-



tions, and to meet people from NASA and the Raleigh Astronomy Club. The Academy needs volunteers to help host an exhibit, and it would love to hear your ideas for science demonstrations and activities suitable for small children (mostly < 10 years old). Your time and creative inputs would be much appreciated. We are looking for energetic volunteers who can contribute one- or two-hour shifts from 8:30 AM until 5:30 PM on Saturday (January 30) and from 11:30 AM until 5:30 PM on Sunday (January 31). If you would like to volunteer or have ideas for simple, inexpensive hands-on science activities, please email the exhibit coordinator, Lisa Kelly, at li-sa.kelly@uncp.edu. She can also be reached by phone at 910-521-6377. This would be a great opportunity for Student Academy and Collegiate Academy students and their mentors.

Call for NCAS Board of Directors Nominations

Notice by: Dr. Jim Fuller, IntelliGENETICS LLC

The NCAS Nominating Committee is pleased to announce the call for nominees to serve on the 2016 NCAS Board of Directors. There are positions open that will be filled at the 2016 NCAS Annual Meeting by appointment and election.

Participating on the Board of Directors enables you to lend your leadership and vision to the NCAS community and to contribute to defining its path forward.

If you are interested in serving, nominating a fellow member, or want to gain a better understanding of the roles and responsibilities of being a member of the NCAS Board of Directors, please contact the Chair of the Nominating Committee, Jim Fuller, at Jrfuller1969@gmail.com.

NCAS News

Center for Engaged Learning Announces Conference, July 24–25, 2016 “Excellent Practices in Mentoring Undergraduate Research”

Notice contributed by Dr. Yuko Miyamoto, Elon University

The conference will feature a keynote address by **George Kuh** and multi-institutional research conducted through the 2014-2016 Elon University Center for Engaged Learning Research Seminar on Excellence in Mentoring Undergraduate Research. While the impacts on student development associated with a mentored undergraduate research experience are fairly well accepted, the characteristics and processes related to the high-quality mentoring of undergraduate research remain to be elucidated. Six multi-institutional teams representing 26 institutions have conducted research exploring key characteristics of high quality undergraduate research mentoring, pathways to and through mentored undergraduate inquiry for underrepresented students, mentoring and student identity development, building capacity for mentored undergraduate research, mentoring models, and preparing future faculty as undergraduate research mentors.

Proposals are invited for the culminating conversation about these inquiry projects and for individuals to share their own research related to one of the following themes:

- Key characteristics of mentoring undergraduate research
- Mentoring relationships and student development
- Mentoring practices and faculty development in academic communities
- Undergraduate research program development and implementation
- Enhancing and evaluating undergraduate research outcomes

More information on the conference and on submitting a proposal can be found at the conference website (<http://www.centerforengagedlearning.org/conferences/conference-on-excellent-practices-in-mentoring-undergraduate-research/>). The deadline for submitting a proposal has been extended to **November 30**.

Call for Bryden Grant Nominations

Notice contributed by Dr. Lei Zhang, Chair-Bryden Grants Committee, Winston-Salem State

We invite applications for two \$1,000 Bryden Grants to be awarded in the NCAS 2015-2016 academic year. Award monies will cover research equipment and/or expenses related to attending scientific conferences. Past recipients are not eligible. Both the applicant and advisor must be at a college or university in NC and members of the NCAS in good standing. Applications are due **February 29, 2016** to Dr. Lei Zhang (zhangl@wssu.edu) and Dr. Mark McCallum (mark.mccallum@pfeiffer.edu). Award recipients are strongly encouraged to present their work at the NCAS 2017 annual meeting.

The full application is available at www.ncacadsci.org.

CANCAS Fall Research & Career Workshop

Report by: *Dr. Beth Overman, N.C. State University*

On November 7th, CANCAS held its annual Research and Career Workshop. Hosted by Pfeiffer University, this workshop brought together over 50 undergraduate students from a variety of schools including Lenoir Rhyne University, Campbell University, Pfeiffer University, Guilford College, and North Carolina State University. During the day-long event, students explored undergraduate research and study abroad opportunities, engaged in discussions with admissions representatives from professional schools, discussed the process on how to create scientific posters, and learned tips on writing scientific papers. Thanks to many engaging and expert presenters, the workshop participants had a full and rewarding day of networking and learning together. Many thanks to Pfeiffer University for their generous hospitality to the CANCAS group!



CANCAS students register and prepare for the day's events (Photo Credit, Richard Jordan)



Dr. Kelsie Bernot, from North Carolina A&T University, guides CANCAS students through the best practices of writing a scientific research paper. (Photo Credit, Richard Jordan)

Job Openings in the Scientific Community

For more job opportunities and information, go to <http://www.ncacadsci.org/NCAS/jobOpportunities.html>

1. Assistant Professor — Earth Sciences, University of North Carolina at Charlotte, Charlotte, NC

The Department of Geography and Earth Sciences is seeking an Assistant Professor in Earth Sciences specializing in high temperature earth processes. Review of applications will begin November 9, 2015, and continue until the position is filled.

2. Assistant Professor — Earth and Atmospheric Sciences, University of North Carolina at Charlotte, Charlotte, NC

The Department of Geography and Earth Sciences is recruiting a tenure-track Assistant Professor specializing in hydrometeorology or ecohydrology with expertise broadly related to characterizing water-land-atmosphere interactions at multiple spatial and temporal scales. Review of applications will begin January 1, 2016, and continue until the position is filled.



The North Carolina Academy of Science
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Check us out on the web!
<http://www.ncacadsci.org/home.html>

The **objective** of the North Carolina Academy of Science is to *encourage the advancement of science within the state of North Carolina by promotion of scientific research and by the fostering of education in the sciences*". The North Carolina Academy of Science meets these objectives by...

- Publishing a peer reviewed scholarly journal, the *Journal of the North Carolina Academy of Science*.
- Fostering and encouraging student involvement in the sciences through support of the Collegiate (CANCAS) and Student Academies (NCSAS).
- Promoting interactions among scientists and students throughout North Carolina.
- Providing a forum for exchange of ideas for solving issues important to North Carolina.

The Academy members include individuals from academia, industry, government, and all others who support the objectives and goals of the Academy.

North Carolina Academy of Science

Our Mission

The North Carolina Academy of Science promotes public appreciation of science, science education, scientific research and a meaningful role for science in public policy.

Our Goals:

Promote public appreciation of science

- Partnership with Science Centers
- Public Lecture Series
- Newsletter

Promote science education

- NCAS Webpage
- Academic Lecture Series
- NCAS Publications: Journal, Educational Publications
- Student Academy - Middle & High School

Promote scientific research

- Yarbrough and Bryden Research Grants
- CANCAS Undergraduate Research Workshop
- Presentation Opportunities at Annual Meetings

- Journal of the North Carolina Academy of Science

Promote science in public policy

- Symposia
- News Releases
- Position Statements
- Interactions with Public Officials





Oklahoma State University NSF REU on Stream Restoration



This Research Experience for Undergraduates (REU) Site will provide seven undergraduate students a research experience over a ten week period during the 2016 summer (May 23-July 29, 2016). The research will include studies in hydrology, geosciences, and biology at the Cow Creek Stream Rehabilitation Site on the Oklahoma State University (OSU) campus. The opportunity to study streams at a site on a university campus recently rehabilitated is unique.

**For potential projects and application, visit
<http://water.okstate.edu/students/nsf-reu>**

**Application Deadline:
February 15, 2016**
**Applicants Notified:
March 2, 2016**
**Final Acceptance of
Applicants:
March 31, 2016**



Involved Departments:

- Biosystems and Agricultural Engineering
- Natural Resources Ecology and Management
- Zoology
- Geology
- Fish and Wildlife Units

Program Benefits:

- Opportunity to work with outstanding faculty members committed to undergraduate research and education
- Free housing provided on the OSU Campus
- \$5000 stipend (\$500/week)
- \$30 per day meal allowance (\$2,100 during program)
- \$500 research supply allowance
- \$1,000 to travel to conference during the fall/spring after the REU program