

February 2015
Monthly Update for the Green Chemistry in Education Network Julie Haack, University of Oregon
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Dear Members of the Green Chemistry Community,

Thank you for your submissions. Please remember to send me your position announcements so that we can post them on the Green Chemistry Education Network website (<http://cmetim.ning.com/>).

You can invite others to join this list by forwarding this email with the following instructions: To subscribe, please send an email request to jhaack@uoregon.edu with the subject heading "subscribe green chemistry." As always, please let me know if you would like to be removed from the list.

Quick Summary

TIME SENSITIVE

- February 25, 2015 – First round applications due for ACS GCI 2015 Business Plan Competition
- March 13, 2015 – Abstract submission deadline for the 19th annual Green Chemistry and Engineering Conference
- March 13, 2015 – Application deadline for NSF Student Travel Scholarships to attend 19th annual Green Chemistry & Engineering Conference
- April 1, 2015 – Nomination deadline for ACS Fellows

WEBINARS

- February 17, 2015 - *Teaching Toxicology: Model Courses and Novel Approaches*

MEETINGS

- April 23, 2015 (Troutdale, Oregon) - *Design of Safer Chemicals and Products: The Nexus of Toxicology and Chemistry*

EMPLOYMENT OPPORTUNITIES

- Program Coordinator - Berkeley Center for Green Chemistry

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

- The Green Chemistry & Commerce Council Quarterly e-Newsletter
- News from ACS GCI: Nexus Newsletter
- Advancing Green Chemistry
- Berkeley Center for Green Chemistry Newsletter
- Green Centre Canada

TIME SENSITIVE

19th Annual Green Chemistry and Engineering Conference - *Catalyzing Innovation: Smarter research, greener design, better world*
July 14-16, 2015 in the Washington DC metro area.

Abstract submission is open – deadline March 13, 2015

Program Information - <http://www.gcande.org/program/>
Business Plan Competition - <http://www.gcande.org/program/business-plan-competition/>
Advanced Registration – May 29, 2015 - <http://www.gcande.org/registration/>
NSF Student Travel Scholarship – Application deadline March 13, 2015

We are excited to announce a new workshop this year entitled, ***Creating learning objectives that infuse green chemistry and engineering into the curriculum***. This will be a hands-on workshop where educators can learn about effective practices to map and correlate core chemistry topics with green chemistry and engineering contexts and create learning objectives that integrate those topics and contexts. Participants will also explore the barriers that students and faculty may need to overcome to use green chemistry and engineering topics as a rich context for learning chemistry.

The workshop will draw on strategies for creating learning objectives that were developed as part of a recent NSF-funded initiative “Visualizing the Chemistry of Climate Change.” (www.VC3Chem.com; Mahaffy, P. G.; Martin, B.E; Kirchhoff, M.; McKenzie, L.; Holme, T.; Versprille, A.; Towns, M. (2014) “Infusing Sustainability Science Literacy Through Chemistry Education: Climate Science as a Rich Context for Learning Chemistry,” ACS Sust. Chem. Eng., 2 (11), 2488 – 2622.) Session chairs: Peter Mahaffy, past-chair of IUPAC’s Committee on Chemistry Education and co-PI of the VC3 project and Julie Haack, coordinator of the Green Chemistry Education Network.

Other Sessions/Activities/Opportunities

- ***State-of-the-Art in green chemistry and engineering education: At the Bachelor’s degree-level and beyond.*** How do chemists and engineers develop skills, strategies and tools during and beyond the bachelor’s degree? This session will showcase cutting edge experiences and programs that promote BS-level, continuing education and research training to drive innovation in green chemistry and engineering. Attendees will learn about innovative academic programs, in-house industrial training activities, new tools/databases that are facilitating the discovery and design of greener materials as well as science communication fellowships and opportunities to participate in integrated learning experiences that are transforming post-graduate education.
- ***Charting a Roadmap for green chemistry and engineering education.*** During the last two years, speakers have explored the future of green chemistry and engineering education and introduced the idea of developing a roadmap for education to meet the needs of a variety of stakeholders. As the roadmap evolves, green chemistry educators will need to integrate new topics into the curriculum. This session will survey needs of stakeholders to craft a roadmap that will meet those needs over time.
- ***Recent advances in laboratory materials for green chemistry and engineering:*** Rapid-fire session – More information coming soon.
- ***ACS GCI Business Plan Competition:*** The ACS Green Chemistry Institute® is holding the only business plan competition exclusively devoted to green and sustainable chemistry and engineering. Early stage, pre-revenue companies who are reimagining chemistry and innovating for a sustainable future are encouraged to apply with a short Executive Summary and video of their green business idea. First round applications are due by 2/25/2015 at 5:00 p.m. EDT. The top five finalists will be notified by March 18 and will compete in the final round during the 19th Annual Green Chemistry and Engineering Conference in Washington, DC on July 15, 2015. For full instructions please go to <http://www.gcande.org/program/business-plan-competition/>
- ***NSF Student Travel Scholarship:*** A generous grant from the National Science Foundation (NSF) will provide participation through a limited number of travel scholarships for

students to attend the ACS Green Chemistry Institute® 19th Annual Green Chemistry & Engineering Conference on July 14-16, 2015 and the Student Workshop on Monday, July 13, 2015 in the Washington DC metro area. The 2015 NSF Student Scholars program will reimburse students for travel, accommodations, and registration fee, up to a maximum of \$1,000 each. Student must be currently enrolled in an accredited U.S. university at the undergraduate, graduate or postdoctoral level. Applicants are ineligible if they have also won a Ciba, Breen or Hancock Award to attend the same conference. Deadline: March 13, 2015 at 5:00 PM EST. Download application here: <http://www.gcande.org/students>.

Nominations for ACS Fellows

Nominations for ACS fellows open February 1, 2015 and close at 11:59PM April 1, 2015. The American Chemical Society (ACS) Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society. Eligibility criteria for nominees and nominators and the selection criteria can be found here: <http://www.acs.org/content/acs/en/funding-and-awards/fellows/eligibility-criteria.html>

The division will discuss which candidates will be DivCHED's nominees at the Executive Committee meeting, Saturday, March 21, 2015, 1:30PM - 4:00PM, Governor's Square 12, Sheraton Denver Downtown. If you are not able to attend the meeting and have a candidate that you believe should come from the division, please email the chair of the division, Marcy Towns at mtowns@purdue.edu.

WEBINARS

The Green Chemistry Education Webinar Series Announces - *Teaching Toxicology: Model Courses and Novel Approaches*

February 17, 2:00 – 3:30pm EST. A panel discussion with Dr. Marty Mulvihill, Dr. Doug Raynie (South Dakota State University) and Dr. John Warner (Warner Babcock Institute and Simmons College).

Register Here: <https://attendee.gotowebinar.com/register/7760584329990915841>

Toxicology, environmental impact and environmental health have not traditionally been taught to chemistry students and are not typically part of a chemistry degree program. Advocates for green chemistry recognize that toxicology and related concepts will be an essential part of a chemistry student's education so that students can design chemical products and processes that have reduced environmental and health impacts. Chemistry departments are now presented with the problem of how the information will be presented and who will teach it. Chemistry faculty will have to rely on a creative and diverse set of resources to meet this demand.

This panel will feature presentations by three faculty members who are teaching toxicology and related concepts in their chemistry degree programs. We will explore three different approaches and share resources from each of the institutions. The panel will feature Dr. Marty Mulvihill, who has lead a graduate seminar on toxicology and features human and environmental health topics

in Berkeley's graduate green chemistry courses; Dr. Doug Raynie, who has co-taught a 400 level course on Chemical Toxicology for South Dakota State's undergraduates, and Dr. John Warner who teaches a 300 level Mechanistic Toxicology course for Simmons College undergraduates. Join in the discussion on how to include toxicology and related topics in your chemistry courses and programs.

MEETINGS

Design of Safer Chemicals and Products: The Nexus of Toxicology and Chemistry. This workshop is for chemists, toxicologists, and material scientists engaged in material selection and product design. April 23 - 24, 2015 (Troutdale, Oregon) Hosted by: Northwest Green Chemistry and MoDRN

This 2-day course is for professionals who design new chemicals, formulations, and commercial products, as well as those interested in supporting safer products and processes within public, private, and non-profit organizations. Recognized leaders in chemistry, toxicology, ecotoxicology, nanotoxicology, and other disciplines will guide participants in the use of the most prominent tools used in chemical design and predictive toxicology. Participants will have the opportunity to discuss cutting-edge science and practical strategies for the design of safer chemicals and products.

Registration: <http://www.eventbrite.com/e/design-of-safer-chemicals-and-products-workshop-tickets-14173343853>

Flyer: <http://www.ecy.wa.gov/programs/hwtr/p2/GreenChem/pdfs/flyer2.pdf>

EMPLOYMENT OPPORTUNITIES

Berkeley Center for Green Chemistry - Program Coordinator

BCGC is hiring a program coordinator to support management and operation of the Center and of the SAGE IGERT PhD fellowship program. The program coordinator will prepare reports, keep track of budgets, create/oversee the creation of web/outreach content, and help engage campus stakeholders. This is a job for someone with great communication and interpersonal facilities and who is committed to the BCGC mission. The ideal candidate should have Advanced degree at the master's level or equivalent and at least 2 years of experience in a field related to science, engineering, or health. This is a half-time position. To learn more about this position contact Marty Mulvihill, Executive Director, Berkeley Center for Green Chemistry marty_m@berkeley.edu. To apply visit <https://aprecruit.berkeley.edu/> Job #: JPF00654

SOCIAL MEDIA

ACS Green Chemistry Institute®

Blog: <http://bit.ly/ACSGCIblog>

Facebook page: <https://www.facebook.com/ACSGreenChemistryInstitute>

Twitter channel: <https://twitter.com/ACSGCI>
LinkedIn Group: <http://bit.ly/ACSGCIgroup>
YouTube Channel: <http://www.youtube.com/user/ACSGCIInstitute/videos>

The Green Chemistry Network

LinkedIn: Green Chemistry Network (GCN) York

GreenCentre Canada

Facebook: GreenCentreCanada

Twitter: Green_Centre

LinkedIn: GreenCentreCanada

You Tube: GreenCentreCanada

Pinterest: GreenCentre

Flickr: GreenCentre Canada

Website: <http://www.greencentrecanada.com/> (where you can also link to all of the above mentioned social media platforms)

News: <http://www.greencentrecanada.com/news/>

Interactive Green Chemistry Google Map

<http://greenchem.uoregon.edu/Pages/MapDisplay.php>

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

The Green Chemistry & Commerce Council Quarterly e-Newsletter

URL: <http://www.greenchemistryandcommerce.org/publications/newsletters/>

From their website: "A publication of the Lowell Center for Sustainable Production at the University of Massachusetts Lowell. Each issue of the newsletter provides current information about upcoming and ongoing GC3 activities, and news about green chemistry and design for environment."

News from ACS GCI: Nexus Newsletter

URL: <http://www.acs.org/content/acs/en/greenchemistry/news.html>

The Nexus e-newsletter is published monthly by ACS GCI and is dedicated to connecting and expanding the global green chemistry and engineering community.

Advancing Green Chemistry

URL: <http://advancinggreenchemistry.org/newshighlights/>

From their website: "Our mission is to promote the development and adoption of Green Chemistry. Green Chemistry is the scientific foundation of greener products, a sustainable economy, and healthier people. AGC's role is to strengthen and promote the science and its practitioners, to link to strategic partners, and to highlight emerging opportunities for stakeholders. In short, AGC seeks to tip the balance in favor of broad support for – and wide adoption of – Green Chemistry."

Berkeley Center for Green Chemistry Newsletter

URL: <http://bcgc.berkeley.edu/bcgc-newsletter>

Green Centre Canada

URL: <http://www.greencentrecanada.com/news/>

From their website: "At GreenCentre Canada, we take a "hands on" approach to commercializing emerging Green Chemistry innovations originating from academia and industry. Our job is to transform these breakthroughs into green products, services, and industries to enhance our quality of life and preserve our environment for existing and future generations."

Network of Early-Career Sustainable Scientists & Engineers (NESSE)

URL: <http://www.sustainableScientists.org>

From their website: "We are a new generation of scientists and engineers using collaborative and green approaches to science and technology to achieve a prosperous and sustainable future for all."

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