

**June 2013**  
**Monthly Update for the Green Chemistry in Education Network**  
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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](mailto: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

- Friday, June 14, 2013 - Submission Deadline for Oral Presentations – - Michigan Green Chemistry and Engineering Conference-Designing a Sustainable Michigan
- Tuesday, June 18, 2013 - Online Event: Global Supplies for Chemical Feedstocks in the 21st Century
- June 21, 2013 – Registration Deadline - Green Chemistry in the High School – Online Professional Development
- August 21, 2013 – Proposal Deadline - 2013 ACS GCI Pharmaceutical Roundtable Research Grant for Green Fluorination of Pharmaceutically Relevant Organic Molecules
- August 21, 2013 – Proposal Deadline - 2013 ACS GCI Pharmaceutical Roundtable Research Grant for Non-Precious Metal Catalysis
- September 1, 2013 – Application Deadline – ACS-CEI Award for Incorporation of Sustainability in Chemistry Education

Employment Opportunities

- Associate or Full Professor of Environmental Science, American University, Washington DC
- Postdoctoral Scholar Positions, University of Oregon Center for Sustainable Materials Chemistry
- ACS GCI Project Specialist

NEWS

- Mobile Apps for Green Chemistry
- Green Chemistry Education Publications
- Education Sessions at the 17th Annual GC&E Conference
- Delaware Sustainable Chemistry Alliance (DESCA) Evaluates Regional Green Chemistry Incubator

CONFERENCES - See full listing below

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

- The Green Chemistry & Commerce Council Newsletters
- News from ACS GCI: Nexus Newsletter
- Advancing Green Chemistry

- Berkeley Center for Green Chemistry Newsletter
- GreenCentre Canada

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TIME SENSITIVE

**Friday, June 14, 2013 - Submission Deadline for Oral Presentations – - Michigan Green Chemistry and Engineering Conference-Designing a Sustainable Michigan**

The Michigan Green Chemistry Roundtable invites proposals for presentations and posters for the 2013 Michigan Green Chemistry and Engineering Conference, scheduled for October 23-24, 2013 at Grand Valley State University in Grand Rapids, Michigan. Business leaders, engineers, chemists, researchers, teachers, policymakers, and anyone else interested in moving green chemistry and engineering forward in Michigan are invited to participate in this conference.

October 23-24, 2013 (Grand Valley State University, Grand Rapids, Michigan, USA)  
 Michigan Green Chemistry and Engineering Conference-Designing a Sustainable Michigan  
 Website: [http://www.michigan.gov/deq/0,4561,7-135-3308\\_3333-274602--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3308_3333-274602--,00.html)

**Tuesday, June 18, 2013 - Online Event: Global Supplies for Chemical Feedstocks in the 21st Century**

Join the ACS Green Chemistry Institute® in a world-wide discussion on sustainable chemical feedstocks as part of the 17th Annual Green Chemistry & Engineering Conference. This session will be streamed live online on Tuesday, June 18, 2013, at 7:00 PM EDT, and will explore the development of a “green” chemical supply chain.

Director David Constable will moderate a professional panel, including representatives from industry, government, and academia, as they paint a global perspective on the possible use of alternative resources. The panel presentation will be followed by Q&A.

Panelists include:

- Dr. Robert Fireovid, National Program Leader – Bioproducts and Biorefining, USDA – Agricultural Research Service
- Dr. James E. Jackson, Professor, Michigan State University
- Dr. Henry E. Bryndza, Technology Director, Dupont Central Research & Development
- Dr. Adam Malofsky, President & CEO, Bioformix, Inc.

To register to participate online, visit [gcande.org/hybrid/](http://gcande.org/hybrid/) <[http://gcande.org/hybrid/?cid=newsletter\\_haack\\_6\\_13](http://gcande.org/hybrid/?cid=newsletter_haack_6_13)> .

**June 21, 2013 – Registration Deadline - Green Chemistry in the High School – Online Professional Development**

Learn how to incorporate green chemistry and sustainability into your curriculum this summer. This course begins with an introduction to the 12 principles of green chemistry and then concentrates on the exploration and creation of personalized green chemistry curricula for your classroom and lab. This is a go at your own pace course specifically geared towards classroom implementation. The course provides an interactive learning environment with audio, video and insightful discussion. Participants have the opportunity to earn professional development points and optional graduate level credits. Cost \$350

Website: [http://www.beyondbenign.org/professional/high-school\\_online\\_course.html](http://www.beyondbenign.org/professional/high-school_online_course.html)

**August 21, 2013 – Proposal Deadline - 2013 ACS GCI Pharmaceutical Roundtable Research Grant for Green Fluorination of Pharmaceutically Relevant Organic Molecules**

The ACS GCI Pharmaceutical Roundtable is accepting research proposals for review on developing greener and safer methods, reagents, or engineering solutions (such as flow chemistry) for the selective fluorination of pharmaceutically relevant organic molecules. A \$50,000 USD grant will be awarded to the selected research group for a 12-month span. Public and private institutions of higher education worldwide are eligible to submit a proposal by August 21, 2013, 5:00 p.m. EDT (GMT-4). For more information go to: [www.acs.org/gcipharmaroundtable](http://www.acs.org/gcipharmaroundtable) <<http://www.acs.org/gcipharmaroundtable>>

**August 21, 2013 – Proposal Deadline - 2013 ACS GCI Pharmaceutical Roundtable Research Grant for Non-Precious Metal Catalysis**

The ACS GCI Pharmaceutical Roundtable is accepting research proposals that target the identification and development of Non-Precious Metal Catalysis alternatives for widely employed Transition Metal catalyzed cross-coupling reactions, with a focus on substrates that are widely applicable to the pharmaceutical industry. A \$100,000 USD grant will be awarded to the selected research group for a 1-2 year project. This grant is intended for a student within the selected Principal Investigator's research group. Public and private institutions of higher education worldwide are eligible to submit a proposal by August 21, 2013, 5:00 p.m. EDT (GMT-4). For more information go to: [www.acs.org/gcipharmaroundtable](http://www.acs.org/gcipharmaroundtable) <<http://www.acs.org/gcipharmaroundtable>>

**September 1, 2013 – Application Deadline – ACS-CEI Award for Incorporation of Sustainability in Chemistry Education**

A call for nominations for the ACS-CEI Award for Incorporation of Sustainability in Chemistry Education has been announced as part of the American Chemical Society's goal to "Advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people". The Society's Committee on Environmental Improvement seeks to recognize those individuals or groups who have made exemplary contributions to the incorporation of sustainability into chemical education.

Visit

[http://portal.acs.org/portal/PublicWebSite/about/governance/committees/cei/activities/CNBP\\_024461](http://portal.acs.org/portal/PublicWebSite/about/governance/committees/cei/activities/CNBP_024461) for complete details.

Please note that applications must be submitted via email by September 1, 2013. Both third party and self-nominations are encouraged.

**Employment Opportunities**

**Associate or Full Professor of Environmental Science, American University, Washington DC**

American University invites applications for a senior position at the rank of Associate Professor or Professor in Environmental Science. We are especially interested in a distinguished scientist with a strong record of publication and external funding who can draw together environmental studies faculty in the College of Arts and Sciences, School of International Service, School of Communication, and

School of Public Affairs, and build a cohesive program, based both on existing faculty and anticipated new hires. Applicants with interests in environmental problems in urban areas, and/or with strong policy/science ties, will be given special attention.

Our strengths include a strategic Washington location, a strong campus-wide research commitment to sustainability, several innovative, interdisciplinary graduate programs, and strong ties to the environmental science and policy community via federal agencies, intergovernmental organizations, and environmental NGOs.

Applicants must have a PhD in a scientific discipline, at least ten years' experience in academia or government, and a successful funding record. Review of applications will continue until the position is filled. Candidates should send an application letter outlining research interests, teaching experience; a CV; and no more than three sample publications. Please arrange to have three letters of recommendation sent directly from the referees.

Application materials should be sent to:

Dr. David C. Culver

Chair, Environmental Science Search

Department of Environmental Science

American University, Beeghly 104

4400 Massachusetts Ave, NW

Washington, DC 20016-8007

Email: [environ@american.edu](mailto:environ@american.edu) (electronic submission is encouraged)

American University is an affirmative action/Equal opportunity employer committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply.

### **ACS GCI Project Specialist**

The Project Specialist reports to the Program Manager of the ACS Green Chemistry Institute®. The incumbent in this job is responsible for selected day-to-day operations of the office, including budget and finance, contracts, grants and awards management. The Project Specialist is also responsible for program development and project management of selected green chemistry initiatives in all areas of the Institute's work (Science and Research, Education, Industry and advocacy). This requires a working knowledge and/or direct experience with of sustainability/ green chemistry and engineering issues.

[https://acs-hr.silkroad.com/epostings/index.cfm?fuseaction=app.jobinfo&jobid=205731&company\\_id=16094&version=1&source=ONLINE&jobOwner=992584&aid=1](https://acs-hr.silkroad.com/epostings/index.cfm?fuseaction=app.jobinfo&jobid=205731&company_id=16094&version=1&source=ONLINE&jobOwner=992584&aid=1)

### **Postdoctoral Scholar Positions, University of Oregon Center for Sustainable Materials Chemistry**

Postdoctoral scholar positions are available in the Center for Sustainable Materials Chemistry. Scholars will contribute to advancing Center collaborative efforts in chemical synthesis, application of analytical techniques, and computational modeling. The Center is a multi-institutional effort led by Oregon State University and the University of Oregon, and multiple positions are available across the participating institutions.

Description: The Center research addresses basic aspects of solution-based inorganic nanoclusters and near atomic-level control of thin-film chemistry for applications ranging from energy to semiconductor processing. The research is highly collaborative, and postdoctoral scholars will coordinate activities across multiple groups. See <http://sustainablematerialschemistry.org> (the People and Research page) for a listing of PIs and descriptions of research activities. Successful candidates will have the opportunity to participate in a variety of professional-development activities in the Center, covering education, outreach, and innovation.

Please send a single pdf file containing a cover letter, curriculum vitae, and the names of three references to [csmc@oregonstate.edu](mailto:csmc@oregonstate.edu)

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## NEWS

### **Mobile Apps for Green Chemistry**

Green Solvents is a free mobile app that makes the ACS Green Chemistry Institutes Pharmaceutical Roundtable Solvent Selection Guide broadly accessible. The app covers 60 solvents and is available online at

<https://itunes.apple.com/us/app/green-solvents/id446670983?mt=8> , and the Lab Solvents app for Android devices is available online at <https://play.google.com/store/apps/details?id=com.mmi.android.labsolvents>.

### **Green Chemistry Education Publications**

*Green Goggles: Designing and Teaching a General Chemistry Course to Nonmajors Using a Green Chemistry Approach*

Author: Prescott, Sarah (University of New Hampshire)  
Journal: Journal of Chemical Education (2013), 90(4), 423-428.

*Aerobic Alcohol Oxidation Using a Copper(I)/TEMPO Catalyst System: A Green, Catalytic Oxidation Reaction for the Undergraduate Organic Chemistry Laboratory*

Authors: Hill, Nicholas J.; Hoover, Jessica M.; Stahl, Shannon S. (University of Wisconsin—Madison)  
Journal: Journal of Chemical Education (2013), 90(1), 102-105.

*Fitting It All In: Adapting a Green Chemistry Extraction Experiment for Inclusion in an Undergraduate Analytical Laboratory*

Authors: Heather L. Buckley, Annelise R. Beck, Martin J. Mulvihill, and Michelle C. Douskey (UC Berkeley)  
Journal: Journal of Chemical Education (Article ASAP)

*Green chemistry for postgraduates*

Authors: Summerton, Louise; Hunt, Andrew J.; Clark, James H. (Universidad Nacional Autónoma de México)  
Journal: Educacion Quimica (2013), 24(Extrao. 1), 150-155.

### **Education Sessions at the 17th Annual GC&E Conference**

This year's green chemistry education sessions will explore the future of green chemistry and engineering education. The first session (Tuesday) will lay the foundation for developing a roadmap for education by exploring the evolving needs of a variety of stakeholders and identifying unique opportunities for green chemistry and engineering to drive innovation in this area. The second sessions (Wednesday and Thursday) will highlight new developments in educational materials design and showcase exciting initiatives that are emerging across the country. We will also address how future trends in higher education may impact green chemistry and engineering education.

The goal for these sessions is to lay the foundation for an education roadmap that describes the gap between how we currently educate chemists and engineers and what's needed for the future. The hope is to inspire a discussion that connects the evolving needs of a variety of stakeholders (academia, industry, consortia, society, etc.) to specific strategies for how green chemistry and engineering education can prepare chemists and engineers not only to meet our needs but drive innovation in the future. Conference website: <http://gcande.org/>

### **Delaware Sustainable Chemistry Alliance (DESCA) Evaluates Regional Green Chemistry Incubator**

Source: Business Wire

May 31, 2013

Organization Seeks to Meet Early Stage Company Needs for Wet Laboratory Space and Commercialization Support Services

NEWARK, Del.--(BUSINESS WIRE)-- In alignment with its mission to foster sustainable chemistry innovation while leveraging the region's existing asset base, the Delaware Sustainable Chemistry Alliance (DESCA) has formally begun the evaluation process for establishing a regional green chemistry incubator. DESCAs is concurrently benchmarking and developing several business models, sources of financing, external resources for outsourced services, and evaluating and comparing real estate options. The organization is working closely with key stakeholders from the chemical industry, government, regional universities, and the business community to assure that DESCAs opportunities under evaluation are additive to other public and private activities, priorities and investments.

<http://www.environmental-expert.com/news/delaware-sustainable-chemistry-alliance-desca-evaluates-regional-green-chemistry-incubator-376458>

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### CONFERENCES/EVENTS

#### **June 17-19, 2013 (Kyiv, Ukraine)**

8th International Green Energy Conference

Website: <http://igec8.ies.nau.edu.ua/>

**June 18-20, 2013 (North Bethesda, MD, USA -Washington, DC area)**

17th Annual Green Chemistry and Engineering Conference

Website: <http://gcande.org/>

**NEW - June 28-August 23, 2013 (Online)**

Green Chemistry in the High School – Online Professional Development

Registration Deadline June 21, 2013

Website: [http://www.beyondbenign.org/professional/high-school\\_online\\_course.html](http://www.beyondbenign.org/professional/high-school_online_course.html)

**NEW – July 22-26, 2013 (Colden, Colorado, USA)**

ACS Summer School on Green Chemistry and Sustainable Energy

Website:

[http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP\\_SUPERARTICLE&node\\_id=1441&use\\_sec=false&sec\\_url\\_var=region1&uuid=1da9dd83-8e9b-4334-9b11-6282630c1c5b](http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_SUPERARTICLE&node_id=1441&use_sec=false&sec_url_var=region1&uuid=1da9dd83-8e9b-4334-9b11-6282630c1c5b)

**August 3-7, 2013 (Nottingham, United Kingdom)**

6th International Conference on Green and Sustainable Chemistry

Website: <http://www.nottingham.ac.uk/GSC-6>

**September 3-5, 2013 (New Forest, United Kingdom)**

Sustainable Chemistry 2013

Website: <http://www.wessex.ac.uk/13-conferences/sustainable-chemistry-2013.html>

**September 18-20, 2013 (Brussels, Belgium)**

Sustainable Chemistry Summit – Europe 2013

Website: <http://www.si-europe.com/conferences-training/SCS2013>

**NEW – September 23-25, 2013 (Berlin, Germany)**

11th Global Conference on Sustainable Manufacturing – Innovative Solutions

Website: <http://www.gcsm.eu/>

**October 13-15, 2013 (Budapest, Hungary)**

1st EuCheMS Congress on Green and Sustainable Chemistry

Website: <http://www.1eugsc.mke.org.hu/>

**October 23-24, 2013 (Grand Valley State University, Grand Rapids, Michigan, USA)**

Michigan Green Chemistry and Engineering Conference-Designing a Sustainable Michigan

Website: [http://www.michigan.gov/deq/0,4561,7-135-3308\\_3333-274602--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3308_3333-274602--,00.html)

**NEW - November 2-6, 2013 (New Taipei City Hall, Taiwan)**

4th Asia-Oceania Conference on Green and Sustainable Chemistry (AOC-4 GSC)

Website: <http://aoc-4.web.nthu.edu.tw>

**November 5-7, 2013 (Barcelona, Spain)**

10th Green Chemistry Conference - Economic Growth and Sustainability through Green Chemistry

Website: <http://www.iuct.net/>

**December 4-6, 2013 (Mumbai, India)**

3rd Industrial Green Chemistry World (IGCW) - Profitability from Industrial Green Chemistry and Engineering

Website: <http://www.industrialgreenchem.com/index.html>

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**GREEN CHEMISTRY NEWS AND INFORMATION**

**The Green Chemistry & Commerce Council Quarterly e-Newsletter**

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

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://portal.acs.org/portal/acs/corg/content?\\_nfpb=true&\\_pageLabel=PP\\_SUPERARTICLE&node\\_id=445&use\\_sec=false&sec\\_url\\_var=region1&uuid=5fb3bd22-8078-4ad0-aaa7-b20478fdec7c](http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_SUPERARTICLE&node_id=445&use_sec=false&sec_url_var=region1&uuid=5fb3bd22-8078-4ad0-aaa7-b20478fdec7c)

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/>

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.”

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