

January 2014

Berkeley Center for Green Chemistry Newsletter

Hello and welcome back to all of the students and faculty getting ready to start the spring 2014 semester! We have a number of very exciting things going on this semester ranging from our interdisciplinary graduate class to a conference with the US Green Building Council and a whole new cohort of SAGE IGERT fellows! In addition to what is happening on campus, there are a number of excellent opportunities for students and faculty to engage with the broader Green Chemistry Community this spring. You will find information about all of these events and more below. Thanks for reading!

[BCGC Spring Conference with the USGBC February 20th “Challenges and Opportunities at the Intersection of Health, Materials, and the Built Environment](#)

The Berkeley Center for Green Chemistry (BCGC), [U.S. Green Building Council \(USGBC\)](#), and [USGBC-Northern California Chapter](#) are hosting a one-day meeting on February 20th that will explore the challenges and opportunities associated with creating healthier building materials. This event will bring together the green chemistry and green building communities in the Bay Area to discuss the areas of design, green chemistry, and materials science that must intersect to create healthier buildings. Join us for a day of presentations, panel discussions, and a poster session as we build a community of practice to share tools and approaches, inspire new research and innovation, and foster interdisciplinary collaborations. [If you are interested in attending this event please share your contact information with us](#), and we will contact you with details about registration.

[BCGC Graduate Class in Green Chemistry: An Interdisciplinary Approach to Sustainability](#)

Green Chemistry: An Interdisciplinary Approach to Sustainability is a project-based course that focuses on the challenges of developing clean energy technologies that can meet society's need to both reduce the emission of the greenhouse gases responsible for climate change and minimize the impact of harmful chemicals on human health and ecosystems. It examines the technical, public health, public policy, and business factors that both drive and complicate progress in this field. This year's course focuses on the development of renewable energy technologies. Student research projects will analyze barriers to innovation and propose solutions to promote the adoption of cleaner, safer technologies. [Chem 234 (CCN 12461); ESPM 234 (CCN 30205) PH 234 (CCN 76186)]

[Biomimicry Student Design Challenge is looking for teams from Berkeley!](#)

The [Biomimicry Student Design Challenge](#) invites university students from diverse disciplines—including chemistry, biology, architecture, business, engineering, and design—to solve a real-world sustainability challenge using [biomimicry](#). Student teams will be introduced to the practice of biomimicry through experiential learning, and provided with the opportunity to get constructive feedback on their design concept from industry experts. Finalists from the design concept round will also have the opportunity to participate in a business accelerator round, which will provide business mentoring and resources to help students take their designs to the next stage. The theme of this year's Challenge is transportation, a sector that has many social and environmental impacts, both locally and globally. Student teams can focus on both or one of the following areas within the transportation challenge: (1) How to make public transit, freight, or individual transportation options more responsive to user needs; or (2) How to reduce the environmental impact of transportation. [Watch this video](#) or visit the website to learn more and sign up for this exciting opportunity.

[13th Annual Green Chemistry in Education Workshop at the University of Oregon](#)

Before giving you the details about this workshop, I want to say that participating in this workshop has been one of the most valuable experiences that I have had since joining the green chemistry community. The folks at the University of Oregon do a great job putting together this interactive workshop that will both inspire and empower you to integrate more green chemistry into your undergraduate curriculum! The Green Chemistry in Education Workshop is a five-day workshop for educators in the chemical

sciences interested in incorporating green or sustainable chemistry concepts into the organic chemistry curriculum and laboratory. The primary goals for this workshop are to increase the number of educators who incorporate green chemistry experiments and concepts into their teaching and establish a network of chemical educators who promote green chemistry. Preference is given to applicants who focus on organic chemistry laboratory and who have the potential to significantly impact students, colleagues and the community. The application deadline is February 15, 2014. To apply go to: <http://www.cwacs.org/content/green-chemistry>.

ACS Green Chemistry Institute Student Awards (Applications Due February 1st)

The ACS Green Chemistry Institute® administers two student awards each year that recognize and support young chemists and engineers interested in green chemistry and engineering. The [Joseph Breen Memorial Fellowship](#) sponsors young scholars to participate in an international green chemistry technical meeting, conference, or training program. The award covers travel and registration expenses up to \$2,000. The [Kenneth G. Hancock Memorial Award](#), which is presented annually at the Green Chemistry & Engineering Conference, recognizes student contributions to the advancement of green chemistry research or education. The award is open to any undergraduate through graduate level student, regardless of country of origin or place of study. In addition to a \$1000 award, the recipient's travel and registration to the GC&E conference is covered.

UC Berkeley Green Labs Initiative from the Chancellors Advisory Committee on Sustainability

Start the semester off on the right foot by making your lab more sustainable. The UC Berkeley Green Laboratory Certification Program recognizes laboratories that follow appropriate sustainability practices and continually aim to reduce their environmental footprint. These laboratories will not only work together with the Chancellor's Advisory Committee on Sustainability (CACS) to create a more sustainable environment, but will also collaborate within the campus labs community to bring innovation and creativity to the certification program. Contact [Edward Sihua Yang](#) to learn more and to get involved.

Call for Papers to be presented at the 18th Annual Green Chemistry & Engineering Conference: "Advancing Chemistry, Innovating for Sustainability"

The [18th Annual Green Chemistry & Engineering Conference \(GC&E\)](#) will be held by the ACS Green Chemistry Institute on June 17-19, 2014 in the Washington DC metro area. This event is the premier conference on Green Chemistry and Engineering. Hundreds of participants come together every year to share research as well as education and business strategies to ensure a green and sustainable future. If you are interested in contributing your part to GC&E by presenting a paper [visit the conference program page](#) for more information. Deadline for submissions is February 28, 2014.

Infocast's 5th Annual Next Generation Bio-Based and Sustainable Chemicals Summit

February 2014, bio-based technology start-ups, global chemical majors, high-profile brand owners, feedstock providers, strategic venture capitalists and financiers from around the world will once again convene in San Diego for [Infocast's 5th Annual Next Generation Bio-Based and Sustainable Chemicals Summit](#). This year's Summit will provide a detailed overview of the critical developments the industry is currently facing, including innovative feedstocks, end-user applications, and progress of established and new chemical production platforms and applications.

Post-Doc Position at the UMass Lowell Center for Sustainable Production

A postdoctoral position in safer chemistry is available at the Lowell [Center for Sustainable Production](#) to undertake research on tools, drivers, and methods for the evaluation and adoption of safer chemistry. The Safer Chemistry Fellow will work within the Chemicals Policy and Science Initiative (CPSI). The CPSI has two main initiatives: the [Green Chemistry and Commerce Council](#), a network of 75 leading firms working to overcome barriers to development and adoption of green chemistry; and the [alternatives assessment project](#), an initiative to advance development and application of frameworks and tools for the evaluation of safer chemicals, materials, and products. You can find the full job description [here](#), or you can contact [Joel Tickner](#) at UMass Lowell to learn more.

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