

January 2014
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 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

- Tuesday, January 21, 2014 - GC3 Green Chemistry Education Webinar Series – Toxicology and Why You Should Care
- Friday, January 31, 2014 - Abstract Deadline - Greening Attitudes in Chemistry Education: 23rd IUPAC International Conference on Chemical Education (ICCE 2014)
- Saturday, February 1, 2014 - Deadline for student award submissions for the Green Chemistry Institute's Joseph Breen Memorial Fellowship and the Kenneth G. Hancock Memorial Student Award
- Tuesday, February 4, 2014 – Application deadline for EPA Environmental Education Grant Program
- Saturday, February 15, 2014 – Application deadline for 13th Annual Green Chemistry in Education Workshop (University of Oregon)
- Friday, February 28, 2014 – Abstract Deadline - 18th Annual Green Chemistry & Engineering Conference
- Friday, February 28, 2014 - Abstract Deadline for Empowering Chemical Educators for a Greener Tomorrow (BCCE 2014)

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ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

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- News from ACS GCI: Nexus Newsletter
- Advancing Green Chemistry
- Berkeley Center for Green Chemistry Newsletter
- Green Centre Canada

TIME SENSITIVE

Tuesday, January 21, 2014 - GC3 Green Chemistry Education Webinar Series – Toxicology and Why You Should Care

In the second webinar of the Green Chemistry and Commerce Council Green Chemistry Education series, three toxicologists, Drs. Steven Gilbert, Cal Baier-Anderson and Ron Roy will provide an overview of the science toxicology and how it can be used to design and evaluate safer products.

Registration: <https://gc3.webex.com/gc3/onstage/g.php?d=292145030&t=a>

Friday, January 31, 2014 - Abstract Deadline - Greening Attitudes in Chemistry Education: 23rd IUPAC International Conference on Chemical Education (ICCE 2014)

The Toronto organizing committee invites abstracts for presentations and posters for the 2014 IUPAC International Conference on Chemistry Education, scheduled for July 13-18, at the Metro Toronto Convention Centre and the University of Toronto. Green chemistry symposia will be organized in the following seven areas:

Green Chemistry Initiatives beyond the Classroom
Green Chemistry Instruction in the Introductory General Curriculum
Practical Green Chemistry in the Laboratory
Reality versus Public Perception of Industry Regulations: Content for Science Education
Strategies to Teach and Learn Chemistry through Real-World Contexts
Teaching Green Chemistry in High Schools
The Role of Education in Responsible Research and Innovation

The abstract deadline is Friday, January 31, 2014 <http://icce2014.org/abstract.html>

Saturday, February 1, 2014 - Deadline for student award submissions for the Green Chemistry Institute's Joseph Breen Memorial Fellowship and the Kenneth G. Hancock Memorial Student Award

The Joseph Breen Memorial Fellowship and the Kenneth G. Hancock Memorial Student Award are two annual awards administered by the ACS Green Chemistry Institute®. The deadline for these awards is fast approaching. The Breen award sponsors an international green chemistry scholar to participate in a green chemistry technical meeting, conference, or training program. The Hancock award, which is presented annually at the Green Chemistry & Engineering Conference, recognizes student contributions to the advancement of green chemistry research or education.

For details, please visit the ACS GCI awards page <http://www.acs.org/content/acs/en/funding-and-awards/awards/gci.html> or email gci@acs.org.

Tuesday, February 4, 2014 – Application deadline for EPA Environmental Education Grant Program

The purpose of the Environmental Education Model Grants Program is to provide money to support environmental education projects that increase the public's awareness about environmental issues and provide them with the skills to take responsible actions to protect the environment. This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, and that will serve as models that can be replicated in a variety of settings.

2013 EE Model Grants Solicitation Notice (PDF)

http://www2.epa.gov/sites/production/files/2013-12/documents/2013_model_and_sub-award_grants_rfp_0.pdf

Proposals are due by February 4, 2014.

For more information: <http://www2.epa.gov/education/environmental-education-ee-grants>

Saturday, February 15, 2014 – Application deadline for 13th Annual Green Chemistry in Education Workshop (University of Oregon)

The Green Chemistry in Education Workshop (July 12-17, 2014) 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.

The workshop is a combination of lectures, discussion, and hands-on time in the laboratory. Leaders in the field will address the need for green chemistry in the undergraduate curriculum and provide strategies for designing, adapting and incorporating new green experiments into existing organic chemistry curricula. During the laboratory sessions, participants will have an opportunity to perform and evaluate greener organic laboratory experiments developed at the University of Oregon and elsewhere. Past participants from the workshop will be present to share their experiences infusing green chemistry into their courses and on developing new green chemistry materials. Participants are encouraged to share and refine their own plans for integrating green chemistry at their institution. Preference is given to applicants who focus on organic chemistry laboratory and who have the potential to significantly impact students, colleagues and the community. To apply go to: <http://www.ccwcs.org/content/green-chemistry>

Friday, February 28, 2014 – Abstract Deadline - 18th Annual Green Chemistry & Engineering Conference

Submit your abstract for presentation at the 18th Annual Green Chemistry & Engineering Conference, this year themed *Advancing Chemistry, Innovating for Sustainability*, to be held June 17-19, 2014 in the Washington DC metro area. This event is the premier conference on Green Chemistry and Engineering hosted annually by the ACS Green Chemistry Institute®. Conference tracks will be posted on January 15th at gcande.org/program. Abstract submission is open between January 15 and February 28, 2014. (<http://www.gcande.org>)

This year's education session themes are described below.

Green Chemistry Beyond the Bachelor's Degree (... and PhD)

Description: How do chemists and engineers continue to develop skills, strategies and tools beyond the bachelor's degree? This session will showcase cutting edge experiences and programs that promote continuing education and research training to drive innovation in green chemistry. 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.

Green Chemistry Education: Charting the Course Ahead

Description: Last year's session explored the future of green chemistry and engineering education and introduced the idea of developing a roadmap for education by exploring the evolving 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 showcase efforts to integrate topics like life cycle thinking, appropriate use of high-throughput assays and informatics, evaluation of metrics for continuous improvement and economic success, toxicology, structural indicators of environmental and health impacts, knowledge of the innovation process, design thinking etc., into the modern chemistry and engineering curriculum.

Friday, February 28, 2014 - Abstract Deadline for Empowering Chemical Educators for a Greener Tomorrow (BCCE 2014)

This year's 23rd Biennial Conference on Chemical Education will be held at Grand Valley State University in Allendale, Michigan from August 3-7. The theme for this year's event is Empowering Chemical Educators for a Greener Tomorrow. For more information visit: <http://www.bcce2014.org>

EMPLOYMENT OPPORTUNITIES

Tenure Track Academic Position in Sustainable Chemistry at Memorial University of Newfoundland, Department of Chemistry (Canada) – Application deadline March 14th, 2014

The Department of Chemistry, Memorial University, Newfoundland and Labrador, invites applications for a full-time tenure-track appointment at the rank of Assistant Professor, effective on or after 1 Sept 2014, subject to budgetary approval. The successful applicant will be required to develop an internationally recognized, externally funded sustainable chemistry or energy research program aimed at achieving fundamental, groundbreaking discoveries. This could be focused on one of the following areas: catalysis (incl. biocatalysis); green chemistry; marine/ocean chemistry; materials/nanoscience; renewable energy and resources; cleaner resource processing methodologies (incl. minerals, oil and gas). A PhD in Chemistry is required as well as post-doctoral experience in a relevant area. Qualified applicants with experience in areas identified in Memorial's Research Strategy Framework

(<http://www.mun.ca/research/framework/themes.php>) are strongly encouraged to apply.

Depending on their specialization, the new appointee will also be responsible for teaching inorganic and/or organic chemistry courses at the undergraduate and graduate levels and first

year chemistry as required. The salary will be commensurate with qualifications and experience. All qualified candidates are encouraged to apply; however, Canadian Citizens and Permanent Residents will be given priority.

Tenure Track Academic Position in Sustainable Chemistry CHEM-2013-001
(http://www.chem.mun.ca/internal/AsstProfAdvert_SustainableChem.pdf)

NEWS

New Book - Green Chemistry and Engineering: A Pathway to Sustainability

A new textbook by Anne E. Marteel-Parrish and Martin A. Abraham promotes a green approach to chemistry and chemical engineering for a sustainable planet. The text fully covers introductory concepts in general, organic, inorganic, and analytical chemistry as well as biochemistry. At the same time, it integrates such concepts as greenhouse gas potential, alternative and renewable energy, solvent selection and recovery, and ecotoxicity. As a result, students learn how to design chemical products and processes that are sustainable and environmentally friendly. ISBN: 978-0-470-41326-5 (376 pages); published by Wiley and Sons Publishers in November 2013.

For a full description of the text visit <http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470413263.html>

Governor Award for the Office of Campus Sustainability, University of Michigan

The University of Michigan's (U-M) Office of Campus Sustainability has been selected to receive this year's Michigan Green Chemistry's Governor Award in the education category. The award was given for a unique program called Sustainable Lab Certification Program focused on changing operations in teaching and research laboratories to make them more sustainable. The award was presented on October 24, 2013 at the 2013 Michigan Green Chemistry and Engineering Conference in Grand Rapids, MI.

The Office of Campus Sustainability applied green chemistry, waste reduction and energy reduction principles along with operational, administrative and behavioral modifications to achieve short and long term sustainability efficiencies in the laboratories. This program addresses two of the four broader University wide sustainability goals to reduce greenhouse gas emissions and reduce waste being diverted to landfills. Measurable results are being tracked for the annual report generated by U-M. To date, 60 labs across the campus have participated in the program.

Reduction in use and generation of hazardous materials, reduced consumption of energy and utilities, increase in reuse and recycling, implementation of green chemistry and engineering practices, and improved safety for students, faculty and staff are some of the benefits resulted through this program. It has general applicability that can be transferred to research or teaching laboratories in the State of Michigan or across the globe to improve the health and Safety of lab occupants while reducing impact on the environment.

Dr. Sudhakar Reddy and Terrance Alexander of OCS are pleased to receive this award and thanked Timothy Slottow, EVP and CFO, Henry Baier, EVP, Facilities and Operations, Deans, Directors for their support in implementing this program.

Green Analytical Chemistry Course offered at PittCon March 2014

Prof. Doug Raynie from South Dakota State University will be offering a short course on Green Analytical Chemistry on Monday, March 3, 2014 at PittCon (www.pittcon.org) in Chicago, IL. Further information follows. Feel free to contact Dr. Raynie at douglas.raynie@sdstate.edu or the meeting website for additional information.

Course Description: This short course is designed to provide participants with an understanding of the principles of sustainability and green chemistry as applied to chemical analysis. Upon successful completion of the course, the participant will have an understanding of the principles of green chemistry, the principles of green engineering, resources to further their understanding of green chemistry, and insight into solvent replacement and greener analytical technologies.

The course will begin by discussing principles of green chemistry and engineering as supporting pillars of sustainable development. Then specific examples of green analytical chemistry will be presented. Solvent replacements and alternatives will be discussed, metrics to evaluate the greenness of analytical methods will be presented, and analytical techniques will be presented from a green perspective. Finally, green chemistry education and resources will be presented. Throughout the course both principles and practical aspects of the outlined topics will be presented.

Course Outline

1. Principles of Green Chemistry
2. Myths about Green Analytical Chemistry
3. Solvent Alternatives and Solvent Replacement
4. Greener Separations Methods
5. The Role of Spectroscopy in Green Analytical Chemistry
6. Evaluation of Analytical Methods from a Green Perspective
7. Green Chemistry Resources

Target Audience: This short course is intended for both bench and supervisory chemists responsible for method development in the analytical laboratory. Lab managers and decision-makers will gain specific knowledge to provide an informed judgment on future project directions.

The Minnesota Pollution Control Agency Completes Curriculum Development Projects

The Minnesota Pollution Control Agency (MPCA) recently completed green chemistry curriculum development grant projects with Northwestern Health Sciences University and the University of Minnesota-Twin Cities. These two grant projects, funded through MPCA's Environmental Assistance Grant Program, supported the development of Green Chemistry and Design curricula at Northwestern Health Sciences University and a new laboratory experiment at the University of Minnesota – Twin Cities to teach introductory chemistry students about sustainable polymers.

Case studies are posted the agency's Green Chemistry Curriculum Grant Projects web page. <http://www.pca.state.mn.us/index.php/topics/preventing-waste-and-pollution/p2-pollution-prevention/reducing-toxicity/green-chemistry-and-design/green-chemistry-and-design-college-curriculum-grant-projects.html>

EPA Announces the Winners of the 2013 Presidential Green Chemistry Challenge Awards

We are pleased to announce the winners of the 18th Presidential Green Chemistry Challenge Awards. These prestigious awards recognize the innovators behind five outstanding green chemistry technologies that can help us solve environmental problems while saving money, reducing waste and resource use, and shrinking carbon footprints.

EPA issued a press release announcing this year's winners, along with an EPAConnect blog post from EPA's Assistant Administrator, Jim Jones for the Office of Chemical Safety & Pollution Prevention (http://blog.epa.gov/epaconnect/2013/12/2013_green_chemistry_awards/)

2013 Presidential Green Chemistry Challenge Award Winners

For Greener Synthetic Pathways - Life Technologies Corporation
Safe, Sustainable Chemistries for the Manufacturing of PCR Reagents

For Greener Reaction Conditions - The Dow Chemical Company
EVOQUE™ Pre-Composite Polymer Technology

For Designing Greener Chemicals - Cargill, Inc.
Vegetable Oil Dielectric Insulating Fluid for High-Voltage Transformers

For a Small Business - Faraday Technology, Inc.
Functional Chrome Coatings Electrodeposited from a Trivalent Chromium Plating Electrolyte

For an Academic Researcher - Professor Richard P. Wool of the University of Delaware
Sustainable Polymers and Composites: Optimal Design

More information about the winners is available at EPA's website:

<http://www2.epa.gov/green-chemistry/presidential-green-chemistry-challenge-winners>

Green Chemistry News from the European Chemistry and Chemical Engineering Education Network

The European Chemistry and Chemical Engineering newsletter's December issue highlights green chemistry news from Brazil and Latin America.

Some reflections about Green Chemistry Education from Latin America: the role of the IUPAC projects

- Green Chemistry in Latin America (IUPAC 2002-064-1-300)
- Toward a core organic chemistry curriculum for Latin American universities (IUPAC 2002-010-1-050)
- Sustainable Education and Environmental Development (SEED) in Latin America (IUPAC, 2009-014-2-300)
- Green Chemistry in Higher Education: toward a green chemistry curriculum for Latin American and African universities (IUPAC 2013-041-3-300)

Brazil - Invitation to the International Congress of Science Education

We would like to invite academic teachers, researchers, and teachers from secondary and high schools as well as postgraduate students to the 2d INTERNATIONAL CONGRESS OF SCIENCE EDUCATION, 15 YEARS OF THE JOURNAL OF SCIENCE EDUCATION. The

Congress will be held in Foz do Iguaçu, Parana State, Brazil August 27-30, 2014.

The Congress is organized by the Federal University of Latin-American Integration, UNILA, Foundation the Technological Park of ITAIPU, FPTI and the Journal of Science Education, JSE, with participation and sponsorship of various scientific authorities from different countries. The Congress provides a forum to discuss problems of Science education (physics, chemistry, biology, mathematics, etc.) in the university and secondary (high school) education with international and Latin American experts and other specialists from America, Europe, Asia and other parts of the World.

The peer reviewed Journal of Science Education, JSE, (<http://www.accefyn.org.co/rec/>) is bilingual and international, with authors from more than 60 countries and specialists with excellent track records in education and in the natural sciences from more than 23 countries in its scientific committees.

Invitation to the “Green Chemistry Section (GCS)” at the Brazilian Chemical Society Annual Meeting

Next year we will start a new section titled “Green Chemistry (GCS)” at the Brazilian Chemical Society Annual Meeting (RASBQ). You are invited to submit your abstracts to this new section that includes oral and poster presentations of research works related to the field of Green Chemistry.

More details can be found on <http://www.s bq.org.br/37ra/>

The full newsletter (December 2013, Vol. 14, N. 06) can be accessed at http://www.ec2e2n.info/news/2013/1406_201312

2014 Gordon Conference in Green Chemistry

Green Chemistry: Industrial Successes and Challenges (Hong Kong, July 27-August 1, 2014)

Green Chemistry aspires to significantly influence the global environment. Key themes for this year’s conference focus on recent green processes implemented on an industrial scale, the emphasis on academic-industrial collaboration, and the discussion of the green chemical challenges for the future. Global leaders from the oil and gas industry, biomass processing, the polymer industry, comestibles, the pharmaceutical industry, green energy, and education and communication are coordinating this year’s event. The opening plenaries will discuss the greening of organic synthesis and the consumer industry, and the final session will focus on Global Green Challenges for the future. This will be the first GRC on Green Chemistry to be held outside of the USA and Europe, and the global nature of the field will be emphasized. The organizers are encouraging students and early-stage researchers (both in industry and academia) to attend. Academic-Industrial dialogue is central to solving the challenges ahead, so we look forward to a healthy mix of attendees. For more information visit <http://www.grc.org/programs.aspx?year=2014&program=greenchem>

From Cellulose to Textile Fiber Through Ionic Liquids

New high-performance cellulosic textile fibers have been prepared from the application of novel ionic liquids, to dissolve cellulosic pulp raw material.

A 'cellulose-gap' is developing. The worldwide growth in production volumes of cotton cannot be sustained, due to the volumes of water and cultivation areas that are demanded. Textiles in the future must therefore be manufactured from tree-based cellulosic pulps. Viscose is problematic because of the highly toxic chemicals used in its production.

Ionic liquids, as non-volatile and relatively stable compounds, provide a suitable direct-dissolution media for the dissolution and subsequent processing of cellulosic pulps.

A collaboration between Aalto University and University of Helsinki in Finland has allowed for the development of this processing concept, termed IONCELL-F. Prof. Ilkka Kilpeläinen and Dr. Alistair King, from the University of Helsinki, have been developing more sustainable ionic liquids for lignocellulose processing (DOI: 10.1002/anie.201100274). Prof. Herbert Sixta and Dr. Michael Hummel, from Aalto University, have been developing the IONCELL-F concept, applying ionic liquids developed at University of Helsinki.

<http://fibic.fi/news/from-cellulose-to-textile-fiber-and-a-ready-product>

<http://www.youtube.com/watch?v=5bCbGmNFTQ>

The Sustainable Methods Institute Integrates Green Chemistry

The Sustainable Methods Institute (SMI) is starting a new chemistry program this year that has integrated green chemistry throughout the program.

SMI is a Non-Profit, Sustainable University and Innovation Center that aims to build an education, research and outreach institute that encompasses all fields of sustainable research. For more information about the program visit: <http://www.SustainableMethods.org/>

Meet the Editor of *Green Materials*

The Editor highlights the journal's aims and scope, current content, international diversity, target audience, article submission and access, and upcoming plans. A short two-minute introductory video (<http://youtu.be/IW7K2QcRZvU>).

Learn more about the journal's aims and scope, plus information about manuscript submission and free article access. (<http://www.icevirtuallibrary.com/content/serial/gmat>)

Educational Resources and Green Chemistry Social Media

We are beginning to develop a centralized green chemistry education and social media resource page. Please send me links to educational programs, materials and social media outlets focused on green chemistry.

Educational Resources

The Green Chemistry Network

<http://www.greenchemistrynetwork.org/links-resources.htm>

The Michigan Green Chemistry Clearinghouse
<https://migreenchemistry.org>

ACS GCI Education Resources
<http://www.acs.org/content/acs/en/greenchemistry/education.html>

ACS Green Chemistry Institute
2013 GC&E Conference Recordings
(free):<http://presentations.acs.org/common/sessions.aspx/GCE2013/GCE>

GEMs for Chemists
<http://greenchem.uoregon.edu/gems.html>

Great Lakes Green Chemistry Network
<http://glgcn.drupalgardens.com>

Washington State Department of Ecology Resource Page
http://www.ecy.wa.gov/programs/hwtr/p2/GreenChem/Greenchem_resources.html

Green Chemistry Webinar Series for High School Teachers

The Washington State Department of Ecology partnered on a webinar series with Beyond Benign to inform high school chemistry teachers of the benefits of including the principles of green chemistry in their classes. The webinars covered an introduction of green chemistry, example case studies and replacement labs that could be used in the chemistry classroom. Both Beyond Benign and teachers who are currently using the curriculum presented the webinars. The slides from the webinars are available at <http://www.ecy.wa.gov/programs/hwtr/P2/GreenChem/GreenChemforTeachers.html>
The video recordings are coming soon.

Green Chemistry 101 Training Series

A video series produced by the American Chemical Society Green Chemistry Institute and the Western Sustainability and Pollution Prevention Network these webinars were filmed on Jun 17, 2013 during the Green Chemistry and Engineering Student Workshop held at the American Chemical Society headquarters in Washington, DC. A series of 12 videos describe each of the principles of green chemistry. Website: <http://www.ecy.wa.gov/programs/hwtr/p2/GreenChem/TwelvePrinciples.htm>
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Homeschool Science Blog

Sophic Pursuits, Inc. is a small boutique firm that specializes in environmental and safety regulatory compliance. Additionally, the firm produces science, regulatory and sustainability education materials for a wide variety of learning environments. Homeschool science blog by Frankie Wood-Black, Ph.D., REM, MBA, Principle of Sophic Pursuits: <http://www.sophicpursuits.com>.

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/ACSGCInstitute/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>

CONFERENCES/EVENTS

January 24 -25, 2014 (Coimbatore, India)

1st International Conference on Knowledge Collaboration in Engineering

Website: <http://www.kceickce.com/>

February 6-8, 2014 (Jalgaon, India)

Global Opportunities for Latest Developments in Chemistry and Technology

Website: <http://www.nmu.ac.in/goldct>

February 17-18, 2014 (Ouargla, Algeria)

2nd international days of organometallic chemistry and catalysis

Website: <http://www.univ-ouargla.dz>

March 11-13, 2014 (San Francisco, CA, USA)

Cleantech Forum San Francisco 2014: Accelerating System Change: Toward a Decentralized Future

Website: <http://events.cleantech.com/sanfrancisco/>

March 18-20, 2014 (Cologne, Germany)

International conference on Green Polymer Chemistry 2014

Website: <http://amiplastics.com/events/event?Code=C564>

March 19-21, 2014 (Pattaya City, Thailand)

International Conference and Utility Exhibition on: Green Energy for Sustainable Development

Website: <http://www.icue2014.ait.asia>

March 19-20, 2014 (Shanghai, China)

Asia Green Building Congress 2014

Website: <http://www.broadersinc.com/agbcon2014>

March 31-April 3, 2014 (Cleveland, Ohio, USA)

2014 Great Lakes Green Chemistry Conference: Innovating for Success

Website: <http://www.glrppr.org/conference2013/index-3.html>

April 3-4, 2014 (Corpus Christi, TX, USA)

GreenTech — 2014 Sixth Annual IEEE Green Technologies Conference

Website: <http://www.ieeegreentech.org>

April 7-10, 2014 (Sevilla, Spain)

4th International Congress on Green Process Engineering

Website: <http://www.gpe2014.org>

May 19-21, 2014 (Stockholm, Sweden)

Cleantech Forum Europe 2014

Website: <http://events.cleantech.com/europe/>

June 4-6, 2014 (Valladolid, Spain)

10th International Conference on Renewable Resources & Biorefineries

Website: <http://www.rrbconference.com/>

June 17-19, 2014 (North Bethesda, Maryland, USA)

18th Annual Green Chemistry & Engineering Conference: Advancing Chemistry, Innovating for Sustainability

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

July 13-18, 2014 (Toronto, Canada)

23rd IUPAC International Conference on Chemical Education: Developing Learning Communities in the Chemical Sciences

Website: <http://www.icce2014.org/>

July 26-27, 2014 (Hong Kong, China)

Gordon Research Seminar on Green Chemistry: Applications for Sustainable Future

Website: http://www.grc.org/programs.aspx?year=2014&program=grs_green

July 27-August 1, 2014 (Hong Kong, China)

Gordon Research Conference on Green Chemistry: Industrial Successes and Challenges

Website: <http://www.grc.org/programs.aspx?year=2014&program=greenchem>

July 29-31, 2014 (Barcelona, Spain)

International Conference on Green Chemistry and Sustainable Engineering

Website: <http://www.greenchemse.com/>

August 3-7, 2014 (Allendale, MI, USA)

A 23rd Biennial Conference on Chemical Education: Empowering Chemical Educators for a Greener Tomorrow

Website: <http://www.bcce2014.org>

August 17-21, 2014 (Durban, South Africa)

5th IUPAC International Conference on Green Chemistry

Website: <http://www.saci.co.za/greenchem2014/>

November 17-20, 2014 (Vienna, Austria)

Going Green - CARE INNOVATION 2014

Website: <http://www.care-electronics.net/CI2014/>

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

The Green Chemistry & Commerce Council Quarterly e-Newsletter

URL: <http://www.greenchemistryandcommerce.org/gc3-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.”

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