

April 2015
Monthly Update for the Green Chemistry in Education Network
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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

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- April 28-30, 2015 - The tenth annual GC3 Innovators Roundtable, Nike World Headquarters in Beaverton, Oregon

EMPLOYMENT OPPORTUNITIES

- Senior Chemist Material Science Innovation, Product Development & Engineering, Nike
- Immediate Opening Postdoctoral Positions with National Renewable Energy Laboratory (NREL) and the Colorado School of Mines (CSM).
- Openings for Chemistry for PhD candidates and Postdoctoral Fellows at McGill University with Professor Robin Rogers

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

- Dr. Loyd Bastin named Cynthia H. Sarnoski Science Faculty Fellow at Widener University
- New NSF REU Site on Green Chemistry and the Environmental Chemistry of Natural Environments is seeking applications
- Monash University's Green Chemical Futures building opens

TIME SENSITIVE

April 15, 2015 - University memorial service for Prof. Richard Wool

In memoriam - <http://www.udel.edu/udaily/2015/apr/in-memoriam-wool-040615.html>

12:56 p.m., April 6, 2015--A celebration of life and career for Richard Patrick Wool, professor of chemical and biomolecular engineering and director of the Affordable Composites from Renewable Sources (ACRES) laboratory at the University of Delaware, has been scheduled for 5 p.m., Wednesday, April 15, in Mitchell Hall.

Dr. Wool, a member of the UD faculty since 1994, died unexpectedly on Tuesday, March 24. He was 67.

"We will remember Richard for his many academic and professional accomplishments, but even more for his legacy as a gentle soul, a mentor, and a positive, guiding force in our campus community," said Provost Domenico Grasso.

"Richard was a remarkable scientist, engineer and researcher," said Babatunde Ogunnaike, dean of the College of Engineering and William L. Friend Chaired Professor of Chemical Engineering. "But above all of that, he was a genuinely good person. He was truly one of a kind and a blessing to those of us who had the great honor of knowing him."

Abraham Lenhoff, Allan P. Colburn Professor of Chemical and Biomolecular Engineering and chair of the Department of Chemical and Biomolecular Engineering, said, "Richard's passion for developing materials from renewable resources included mentoring the next generation of green engineers, and made him a highly visible spokesman for the area. At UD his elective courses in bio-based materials and green engineering were enormously popular with students in chemical engineering and beyond. We will miss his irrepressibly positive outlook, good humor and, of course, his leadership of a very important field in our discipline."

"Richard was an outstanding teacher, researcher, adviser and mentor," said John W. (Jack) Gillespie, director of the Center for Composite Materials. "He was also founder of Affordable Composites from Renewable Sources, for which he was world renowned."

Born in Cork, Ireland, to Patrick and Nora Wool, Dr. Wool met his wife, Deborah Fitzgerald Wool, at University College Cork Ireland in 1969 and moved to the United States where they married and started a family. He completed his bachelor of science honors degree in chemistry at the University College Cork Ireland in 1970 and his master's degree (1972) and doctorate in materials science and engineering (1974), both from the University of Utah.

After teaching at the University of New York and the University of Colorado, the Wools moved to the University of Illinois, where they lived for 18 years and started a family with their three daughters, Sorcha, Meghan and Breeda. In 1995, the family moved to Delaware and Dr. Wool taught as a professor of chemical and biomolecular engineering at the University of Delaware until his death.

Dr. Wool had many accomplishments throughout his personal and professional life. He brought great joy to everyone with his generosity, kindness, humor, music, wisdom, and love of life. A life-long sailor, he treasured the times he could bring others with him to enjoy his favorite pastime. His guitar music sessions were special gifts enjoyed by many throughout the years. His daughters said they feel extremely grateful for such an incredible father, who always took

care and time for them, regardless of how busy he was with work.

Some of his professional accomplishments include winning the Presidential Green Chemistry Challenge Award and being elected a fellow of both the Royal Society of Chemistry and the American Physical Society, Division of High Polymer Physics.

He published more than 150 papers and two books, and he held four patents.

Dr. Wool was a guest professor in the Physics Department, Trinity College Dublin, 2002, the Ecole Polytechnique, Condensed Matter Physics, Paris, France, 1991 and the Politecnico DiMilano, Natta Laboratory, Milan, Italy, 1984.

He is survived by his wife, Deborah Fitzgerald Wool; daughters, Sorcha Wool Rocklein and husband Steve Rocklein of Miami, Florida, Meghan Wool of Arlington, Virginia, and Breeda Wool and partner Matt Friedman of Los Angeles; sisters, Margaret Spencer and husband Richard Spencer of England and Chris Soltis and husband John of Salt Lake City, Utah; and nieces and nephews, Dominic, Ciaran, Ian and Anna Spencer, Adrian Pattinson and Jacqui McLelland and John and Elizabeth Soltis.

In lieu of flowers, contributions can be made to the Department of Chemical and Biomolecular Engineering at the University of Delaware in memory of Dr. Richard Wool. Gifts will support the Dr. Richard Wool Award for Women in Green Chemistry. Please send contributions to: University of Delaware, Gifts Processing, 83 East Main St., Third Floor, Newark, DE 19716. Make checks payable to "University of Delaware" and include on the memo line "in memory of Dr. Richard Wool." Gifts can also be made on the University of Delaware's secure website, www.udel.edu/makeagift.

April 15, 2015 - Greening your ACS Student Chapter: Models of Success

Is your ACS Student Chapter interested in becoming a Green Chemistry Student Chapter? Learn about what it takes to be eligible for a Green Chemistry Student Chapter Award, on April 15th 2-3 pm (EDT). This webinar will provide you with resources and examples of green chemistry activities for your Student Chapter. You will also have an opportunity to hear from two successful Green Chemistry Student Chapters: Gordon College and University of Puerto Rico, Rio Piedras. Join us as we give you tools and answer your questions about making your ACS Student Chapter a little greener. Register today at <http://www.greenchemistrycommitment.org/resources/webinar-series/>

Pacifichem 2015 Call for Abstracts Extended to April 15

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

Abstract submission instructions and guidelines: <http://www.pacifichem.org/technical-program/abstracts/>

The 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem), will take place in Honolulu, Hawaii, USA, December 15-20, 2015. The conference is sponsored jointly by the American Chemical Society (ACS), the Canadian Society for Chemistry (CSC), the Chemical Society of Japan (CSJ), the New Zealand Institute of Chemistry (NZIC), the Royal Australian Chemical Institute (RACI), the Korean Chemical Society (KCS), and the Chinese Chemical Society (CCS). The American Chemical Society is the host society for the 2015 Congress.

- **Green and Sustainable Chemistry Education for Tomorrow's Citizens of the World (#334)** James Jackson, Fuping Zheng, Rui Resendes, Dalila Kovacs, Kei Saito
- **Sustainable Chemistry: Beyond the Bench (#103)** Martin Abraham, Michael Gonzalez, Philip Jessop, Milton Hearn
- **Advancing Sustainability: Catalyzing Interdisciplinary Scholarship for Green Chemistry (#383)** Robert Peoples, Steve Maguire, Milton Hearn

April 16, 2015 - The Role of Policy in Green Chemistry Research and Adoption (GC3 Green Chemistry Education Webinar)

Corporate and public policies play an important role in driving green chemistry innovation and adoption. Policies that range from research and development, education, tax and investment incentives to purchasing preferences and regulations at the state, federal, and international levels can all positively or possibly negatively impact demand for and supply of green chemistry alternatives. Corporate sustainability and innovation policies, often motivated by external factors, can drive investment and build a culture of product stewardship within the firm. It is important that material designers, chemists, and business managers within firms understand the role of policy in accelerating green chemistry. This webinar will provide an overview of the range of policies that can affect chemical design and product development and adoption and outline how policy affects research and developing at a major chemical manufacturer.

Speakers: Joel Tickner: Director of Green Chemistry and Commerce Council, Associate Professor of Environmental Health UMASS Lowell and Robert Giraud: Principal Consultant, Environmental Engineering, DuPont Company

April 20, 2015 - Deadline for the NSF Student Travel Scholarship has been extended

Good news students, the deadline for the NSF Student Travel Scholarship has been extended once more to April 20, 2015! The ACS Green Chemistry Institute and the National Science Foundation wants to ensure every student studying green chemistry and engineering has the opportunity to apply for this grant.

Eligible students can win up to \$1,000 to attend the 19th Annual Green Chemistry and Engineering Conference! This money will reimburse registration, travel and hotel fees. Winners will attend the Student Workshop on July 13, 2015 and present a poster at the Welcome Reception.

Students must fill out the NSF Application, submit a transcript, a faculty recommendation, and submit an abstract along with your application describing your green chemistry or engineering related research. Since abstract submissions are now closed for the conference, students will email their abstracts with their applications to: gci@acs.org

To be eligible for the NSF Scholars program, you 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 Breen or Hancock student Award to attend the same conference.

If you have questions, please contact program coordinators at gci@acs.org
<http://www.gcande.org/students/#awards>

April 21, 2015 – Deadline for GC3 Fellows Program

The GC3 Fellows Program places technically proficient students into sustainability-related summer internships with our member companies. The fellows spend 10-12 weeks working within a GC3 member company, learning the skills needed in sustainable industry. After completing the program, this year's fellow will have the opportunity to attend the 2016 GC3 Innovators Roundtable and share their experiences with the next round of students. This year's position is for STEM graduate students and is located in Corvallis, OR with a stipend of \$20-30/hr. Apply by April 21st at <http://greenchemistryandcommerce.org/projects/fellows-program-2015>.

MEETINGS

April 28-30, 2015 - The tenth annual GC3 Innovators Roundtable, Nike World Headquarters in Beaverton, Oregon

The tenth annual GC3 Innovators Roundtable will be held at Nike World Headquarters in Beaverton, OR April 28 - 30. The conference features over 160 leaders from a range of industry sectors, government, non-government organizations and universities, who will convene to share challenges and best practices and work on collaborative projects to advance green chemistry practices in industry, including our very own Marty Mulvihill.

EMPLOYMENT OPPORTUNITIES

Senior Chemist Material Science Innovation, Product Development & Engineering, Nike. This position requires a specialist in chemical, polymer and material science technologies. Expertise should encompass chemistries for a wide range of sport performance apparel and footwear.

Special focus will be placed on:

- Chemical expertise commonly used in polymers, fibers, and manufacturing processes within the world of footwear and apparel manufacturing
- Experience in moving base chemistry to production applications in apparel and footwear.
- Material surface chemistry, surface modification, solvent and solvent replacements, and catalyst expertise.
- An understanding of better chemicals and processes for the footwear and apparel industry.
- Basic understanding of toxicology and/alternative assessments.

The Material Science Innovation (MSI) department aims to accelerate Nike's use of innovative, high performance, and more sustainable products. This position will specifically focus on better performance chemistries and those performance chemistries and materials of that will ensure our continued leadership in sustainability.

What you will do:

- Use better/sustainable/green chemistry as an innovation advantage for the company.
- Understand and anticipate (predict), with the internal Nike chemistry teams and necessary external partners, chemical threats to our product that require innovation to solve or replace.
- Ensure these solutions meet all performance and price attributes and lead to innovative performance solutions.
- Be a resource across MSI and Nike Innovation for review and evaluation of chemistries

underlying all project work. Where necessary inform and suggest alternatives.

ROLE DESCRIPTION

As a Senior Chemist-MSI who is experienced in the discovery, development and commercialization of innovative, advanced chemistries for performance footwear and apparel you will be responsible for managing programs and projects leading to the identification and assessment of innovative chemistries. These chemistries will provide better, more sustainable, alternatives to existing sport performance chemicals and materials. These chemistries and solutions when taken to scale, can be used successfully at Nike. Ideally, you have 10 + years of experience in research and development of chemicals for material and polymer production from lab to scaled commercial production.

You will use your knowledge of emerging methods of polymer and chemical creation to connect opportunities into systems and compare these systems with your understanding of the efficiency and economics of current chemistries and materials. You will lead efforts to 1) identify potential routes to the desired chemistries, 2) conduct technical and economic feasibility assessments of these research and development opportunities, and 3) assemble teams internally, and establish external partnerships with leading entities and organizations active in these areas (such as start-ups, consortia, academia and suppliers). You will assess and estimate the cost structures of different phases of work from research and development to capital deployment to help build our financial and investment plans.

Your highly innovative approach to chemical and materials creation will ideally take into account the desired end goal being superior performing lower impact products. Leading first with product performance, the solutions you will seek will aim to provide best in class performance, maximize our use of better chemistry, and optimize material recyclability.

As a key member of a small team you must have strong communication, collaboration, and influencing skills which you will use in your interactions throughout the project life.

You are:

- A multidisciplinary technologist, knowledgeable across a broad base of scientific and technical fields.
- A specialist in chemistries that drive the creation of sport performance applications.
- Able to continually expand your knowledge by identifying, assimilating and imagining the utility of emerging sciences, technologies and ideas.
- An experienced project manager, capable of managing interdisciplinary virtual teams to deliver targeted advanced material innovations ready for commercialization in a 3-10 year timeframe.
- Responsible for upholding company ideals of: product performance and integrity, low environmental impact, closed loop materials and profitability.
- Inventive with a desire to capture meaningful and relevant intellectual property for the Company.

Qualifications

- Advanced degree in Chemistry, Chemical Engineering, Biochemical Engineering, Materials Science, Fiber/Textile Chemistry
- 10+ years diverse research and commercial experience.
- Experience in the capture of intellectual property as patents for materials, products and/or processes.
- Chemistry and Materials:

- Knowledge of structure-property relationships, rheology, polymerization reaction engineering, scale-up, reactor-design, materials characterization, and component fabrication methods.
- Green/sustainable chemistry familiarity
- Knowledge of material modification techniques and additives from micro to nano scale to improve the finished properties and functionality of materials.
- Networking Capabilities:
 - A track record of building diverse, collaborative relationships, both within and outside one's parent organization.
 - Familiarity with material laboratories and companies that can provide solutions in this space.

PREFERRED:

Chemistry and Materials:

- Understanding of material processing requirements and modification techniques that enable smooth operation of plant equipment.
- Application experience in a wide range manufacturing processes including: extrusion, injection molding, foam and rubber creation.
- A deep understanding of chemistry principles and appreciation for environmental, health and safety goals, especially in regards to emerging regulations.

Publications:

- Experience in authoring and publishing research documents.

#nikeinnovation

Job Product Development & Engineering

Primary Location US-OR-Portland

Organization Nike

Schedule Full-time

Travel Yes, 5 % of the Time

Immediate Opening Postdoctoral Positions with National Renewable Energy Laboratory (NREL) and the Colorado School of Mines (CSM). Three postdoctoral positions in the area of green polymer chemistry and polymer materials science are immediately available. These are collaborative positions between the National Renewable Energy Laboratory (NREL) and the Colorado School of Mines (CSM). These positions are associated with a multidisciplinary effort produce renewable polymers and monomers from biomass. Specifically, to produce precursors to fiber-filled composites. Interested candidates should send a CV, list of references, and letter describing their research and professional interests via email to:

jdorgan@mines.edu

Gregg.Beckham@nrel.gov

Mark.Nimlos@nrel.gov

Position 1 - Polymer Chemistry

We are seeking candidates to develop renewable polymers and composites from chemical products made from biomass. Unique monomers will be produced by biochemical and thermochemical conversion technologies and this new hire will be responsible for identifying and demonstrating synthetic routes to novel polymers that are of commercial interest. The researcher will work with a team of scientists and engineers to develop, optimize and scale up

processes and will also work with industrial partners to insure commercial development.

A Ph.D. in Polymer Chemistry with a strong emphasis on organic synthesis is required for this position. A familiarity with biomass and the chemistry of biomass conversion is desired.

Supervisors: Dr. Mark Nimlos and Prof. John Dorgan.

Position 2 - Polymer Materials Engineering

This new hire will be responsible for the design of new polymeric materials including blends and composites. The successful candidate will be capable of performing established polymerization reactions, including running reactive extrusion processes, of establishing processibility through rheological testing and small scale processing studies, for testing physicochemical properties, and for implementing new approaches to the design of hierarchically structured polymer materials.

A Ph.D. in Materials Science and Engineering, Polymer Science, Chemical Engineering, Chemistry, or a closely related field with a strong emphasis on polymer and composite synthesis, design, and materials testing is required for this position. Supervisors: Dr. Gregg Beckham and Prof. John Dorgan

Position 3 - Membrane Separations

Successful candidates will design, conduct, and optimize separation processes to produce valuable intermediates from biomass-derived sugars and other renewable feedstocks using native and engineered strains. Extraction, perstraction and pervaporation separations experiments from fermentation broths will be conducted at the bench and larger scale. Key collaborations are in place with metabolic and catalysis researchers for improving titers and catalytically upgrading the isolated bioproducts in the context of an integrated biorefinery. Candidates should have a background in chemical engineering separations and the materials science of polymeric membrane materials. Supervisors: Prof. John Dorgan and Dr. Gregg Beckham

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Openings for Chemistry for PhD candidates and Postdoctoral Fellows at McGill University with Professor Robin Rogers: McGill University, Montreal, QC, Canada has openings in Chemistry for PhD candidates and Postdoctoral Fellows with a focus on the design and development of new sustainable products which will both meet the needs of and stimulate the Canadian agricultural, forestry, fishing, mining, and energy sectors, while reducing the reliance on non-renewable resources. The positions will be associated with the laboratories of Prof. Robin D. Rogers, the newly appointed Canada Excellence Research Chair (CERC) in Green Chemistry and Green Chemicals. The CERC program is a tri-agency initiative supporting Canadian universities in their efforts to build Canada's growing reputation as an international leader in innovative research. The Rogers' Group efforts are focused on both developing next-generation sustainable products and technologies, and applying the concepts of sustainability in building new market opportunities for Canada. The research efforts are both fundamental and applied, with an emphasis on translating new safer chemical processes and biomaterial-based products into the economy.

Research interests include green chemistry, separation science, ionic liquids, X-ray diffraction, and crystal engineering. An emphasis is placed on utilizing ionic liquids and green chemistry for sustainable technology through innovation. Major thrusts include Materials: advanced polymeric and composite materials from biorenewables; Separations: Novel strategies for separation and purification of value added products from biomass; Energy: New lubricant technologies and selective separations; Medicine: Elimination of waste while delivering improved pharmaceutical performance.

Initial expressions of interest should be email to Robin.Rogers@McGill.ca

EDUCATION NEWS

Dr. Loyd Bastin named Cynthia H. Sarnoski Science Faculty Fellow at Widener University
<http://www.delcotimes.com/lifestyle/20150329/dr-loyd-bastin-named-cynthia-h-sarnoski-science-faculty-fellow-at-widener-university>

From the website. CHESTER >> Dr. Loyd Bastin, associate professor and chair of chemistry and coordinator of undergraduate research at Widener University, has been named the university's second Cynthia H. Sarnoski Science Faculty Fellow.

Bastin has received the two-year fellowship to support his research with undergraduate students on the greener synthesis of pharmaceuticals.

Since spring 2013, Bastin has worked with Widener students to develop a green synthesis of isoxazole derivatives, which serve as building blocks for pharmaceuticals used as anticonvulsants, antiepileptics and antimicrobials. To "green" the synthetic process, Bastin and his students aim to reduce waste and to find alternative chemicals to use as reagents to replace those that are corrosive, toxic, volatile and sometimes carcinogenic.

While Bastin is confident that he and his students have developed a new process to synthesize diarylisoxazole derivatives that uses green reagents for each step of the synthesis, he wants to continue looking at alternative reagents and purification techniques that generate less waste. In addition, the next phase of his research will involve changing the starting material in the synthesis to produce additional derivatives that potentially have medicinal properties.

New NSF REU Site on Green Chemistry and the Environmental Chemistry of Natural Environments is seeking applications

Black Hills State University, Northern University and South Dakota State University have recently received funding from NSF for a new Research Experiences for Undergraduates (REU) Site focused on research in Green Chemistry and the Environmental Chemistry of Natural Environments. A description of the REU Site and the research projects that are available this summer can be found at <http://www.sdstate.edu/chem/reu.cfm>.

This REU Site has 10 REU student fellowships available for Summer 2015 across the 3 participating universities. Each fellowship provides a 10-week stipend, a cost of living allowance, and a travel allowance to students selected to participate. Applications are now being accepted using an electronic application form.

If students would like more information or have any questions they may contact me directly or the investigator identified with each project on the REU Site webpage.

Monash University's Green Chemical Futures building opens

<http://www.manmonthly.com.au/news/monash-university-s-green-chemical-futures-buildin>
from the website

Green Chemical Futures (GCF), a facility intended to facilitate collaboration and innovation in research and manufacturing opened at Monash University yesterday (April 1).

Opening the building, Senator Scott Ryan, Parliamentary Secretary to the Minister for Education and Training, said the multi-level facility will enhance Australia's research capabilities within the chemicals and plastics sector.

"This building meets all the criteria we set for our universities these days: supporting growth in basic research, accommodating targeted industry-driven research and supporting training programmes for industry participants," he said.

He added that the new building's occupants "will also be at the forefront of delivering the benefits from scientists engaging with industry and vice versa."

"Australia does well in quality and quantity of research for a nation of our size; but we do very badly, by relevant international comparisons, in linkage between industry and universities, and in ensuring beneficial economic impact of research," Ryan said.

GCF will house over 100 chemists and engineers and allow the growth of basic science research to targeted industry-driven research. It will have 17 specialist sectors, training programmes for industry practitioners and new laboratory spaces available for over 1000 students and 100 industry partners.

GCF will partner with a number of national and international institutions including Yale University (USA), Waseda University (Japan) and the Indian Institute of Technology Bombay (Mumbai). GCF scientists and engineers will collaborate on projects along with CSIRO, the Plastics and Chemicals Industries Association and the Victorian Environmental Protection Agency.

The opening was welcomed by Plastics and Chemicals Industries Association CEO Samantha Read.

“The chemistry industry is proactively seeking opportunities to encourage growth and competitiveness by joining forces with Australia’s research community. This is vital to realising our vision of a manufacturing industry that secures long-term benefits for the economy, society and the environment,” she said in a statement.

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>

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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