14th Annual Green Chemistry & Engineering Conference

Innovation & Application
Celebrating recent innovations and applications, and addressing the challenges and opportunities of today and the future.
The ACS Green Chemistry Institute

The ACS Green Chemistry Institute® is devoted to promoting and advancing green chemistry. First incorporated in 1997, GCI joined with the American Chemical Society in 2001 to pursue joint interests in the area of green chemistry.

The mission of the ACS Green Chemistry Institute® is to catalyze and enable the implementation of green chemistry and engineering throughout the global chemical enterprise.

Planning for this year’s conference included several “green” initiatives.

- Carbon emissions of all participants in the conference were calculated and off-set.

- The incorporation of green practices and materials were a consideration throughout the design process of this printed program.
  - Abstracts are not included in the 2010 printed program. For a complete list of abstracts go to: www.gcande.org. As a result we saved paper, ink and company resources.
  - Vegetable inks and FSC certified recycled paper were used in the printing of this program.

- Except for a hotel site visit all planning for the conference was done through “virtual” conferencing.

- A key factor in the selection of the Capital Hilton was the conference returns to a greener Nation’s Capital — a city committed to becoming one of the world’s most sustainable cities.

The Capital Hilton’s location offers several great restaurants and cafes all within walking distance of the hotel. For a complete listing of local area restaurants turn to page 22 of this printed program.

Beginning January 1, 2010, District of Columbia businesses that sell food or alcohol must charge 5 cents for each disposable paper or plastic carryout bag. 3 – 4 cents goes to the new Anacostia River Protection Fund — initiated to save the river through clean-up, reduce the amount of trash disposal in the river, and encourage recycling efforts.

SmartBike DC, provided by the District Department of Transportation (DDOT) in partnership with Clear Channel, is the first-of-its-kind in the United States. The environmentally friendly transportation option, SmartBike DC is a self-service bicycle rental system, which will expand tenfold in 2010.
Welcome from the Conference Organizing Committee

On behalf of the 2010 conference organizing committee, welcome to Washington, D.C., and the 14th Annual Green Chemistry & Engineering Conference.

We are pleased to have you join us for what we believe is an exciting conference on sustainability and its relationship with the molecular world. This year’s conference theme, “Innovation & Application,” was selected by the committee to unite a diverse network of leaders to celebrate recent innovations and applications at the cutting edge of chemistry and engineering.

Whether you are interested in a wide variety of topics or are focused on a specific area, we are confident you will find plenty of things to capture your imagination and curiosity.

This year we have organized a program with more than 15 technical session topics:

- 12 Principles
- Analytical Chemistry
- Biomaterials
- Biomimicry
- Coatings and Polymers
- Cosmetics and Personal Care
- Education
- Electronic Materials
- Energy
- Entrepreneurship
- Environmental Health Sciences
- Metrics and Chemicals Management
- Pharmaceuticals
- Supply Chain Management
- Sustainable Design Concepts
- Synthesis and Catalysis

Best wishes for a great conference,

Dr. John C. Warner
Conference Chair

John C. Warner
President and Chief Technology Officer

The Warner Babcock Institute for Green Chemistry
A chemistry that embraces the human element is a chemistry that is always asking why not? The Dow Chemical Company proudly supports the Green Chemistry & Engineering Conference.
2011 ACS GCI Pharmaceutical Roundtable Research Grant

Request for Proposals
Coming this Summer!
For information visit: www.acs.org/gcipharmaaroundtable
or E-Mail: gcipr@acs.org

ACS GCI Pharmaceutical Roundtable mission:
To catalyze the implementation of green chemistry and green engineering in the global pharmaceutical industry.

Thank you to our current members:
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Become a Member:
We invite you to explore benefits of our roundtable memberships

ACS GCI Roundtables and Mission Statements:

**Chemical Manufacturer**
To provide leadership and education in the interpretation and implementation of green chemistry and green engineering principles as applied in the chemical manufacturing industry.

**Formulator**
To be a driving force in the formulated products industry to use Green Chemistry in creating innovative products that are environmentally sustainable throughout its product life cycle and safer to make and use.

**Pharmaceutical**
To catalyze the implementation of green chemistry and green engineering in the global pharmaceutical industry.

By joining together, member companies benefit by catalyzing innovative approaches, improving process efficiency and product quality.

www.acs.org/greenchemistry
For membership information contact ACS GCI at:
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Gordon College

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ACS Green Chemistry Institute®

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John Warner
Conference Committee Chair
Warner-Babcock Institute for Green Chemistry

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Jane Day
Joyce Kilgore
Esther Peña
Linda Pirrone
Jennifer Young

Special thanks to Asanti M. Thomas and Arthur Lemmon for technical assistance.
Keynote Speakers

Paul Hawken
Renowned Environmentalist, Entrepreneur, and Author

John C. Warner
President and Chief Technology Officer, The Warner Babcock Institute for Green Chemistry

Robert Grubbs
2005 Nobel Prize Winner in Chemistry

U.S. Congressman John Tierney
Co-Sponsor of the Green Jobs Act

Steven Webster
Senior Vice President, Research and Technology Commercialization, 3M

Conference Exhibitors

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U.S. Environmental Protection Agency, Green Chemistry Program
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Catalyzing Green Chemistry Solutions
The ACS Green Chemistry Institute® enables industry to implement a sustainable framework, while improving product quality and guiding process development that is cost effective.

www.acs.org/greenchemistry

To Discuss Further Contact:
Shefali Algoo
s_algoo@acs.org
1-800-277-5558 ext. 6109
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The ACS Green Chemistry Institute®’s (ACS GCI) Student Workshop will bring students of all ages together for a learning experience designed to educate our nation’s youth about green chemistry and environmental challenges facing our planet today. Undergraduates, graduate students and postdoctoral fellows who pre-registered for the 14th Annual Green Chemistry & Engineering Conference are welcome to attend the workshop.

This student workshop will take some of the lessons learned throughout the 14th Annual Green Chemistry and Engineering Conference and put them into action. Held in conjunction with Beyond Benign, students will interact with each other, members of ACS GCI and Beyond Benign, to get a first hand look into the world of Green Chemistry.

Green Chemistry is devoted to implementing the development and integration of environmentally friendly chemicals into all aspects of the global chemical enterprise. By raising awareness amongst our nation’s youth we can motivate and educate future generations of green chemists.

Agenda:

7:30 – 8:30:  Breakfast
9:30 – 10:15: Fellows introduction
10:15 – 12:30: Outreach training
12:30 – 1:00:  Lunch
1:00 – 2:30:  Small group activity practice session
2:30 – 3:00:  Set-up for youth group
3:00 – 4:00:  Youth group outreach event (150 students: ages 4-12)
4:00 – 4:30:  Discussion and closing remarks
Congratulations to the 2010 ACS Green Chemistry Institute®’s NSF Scholars & the ACS GCIPR Student Conference Award Winners

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<td>Mazurek</td>
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Restaurants

American
Agraria Farmers & Fishers
3000 K St., NW

Buffalo Billiards
1330 19th St., NW

C.F. Folks Restaurant
1225 19th St., NW

Cheesecake Factory
5345 Wisconsin Ave., NW

Chop’t Creative Salad Co.
1300 Connecticut Ave., NW

Corduroy
1122 Ninth St., NW

Daily Grill
1200 18th St., NW

The Lafayette
800 16th St., NW

M Street Bar & Grill
2033 M St., NW

Madhatter
1831 M St., NW

The Oval Room
800 Connecticut Ave., NW

Ozio Restaurant & Lounge
1813 M St., NW

Vidalia
1990 M St., NW

Delis, Sandwiches, Burgers & Salads
Burger King
1606 K St., NW

Cosi
1350 Connecticut Ave., NW

Five Guys
1825 I St., NW

Lawson’s Deli at 18th
1776 I St., NW

Organic To Go Café & Catering
1700 K St., NW

Potbelly Sandwich Works
1660 L St., NW

Quizno’s Subs
1707 L St., NW

Subway
1666 K St., NW

To Market To Market
1615 L St., NW

French
Café Soleil
839 17th St., NW

Indian
Naan & Beyond
710 L St., NW

Nirvana
1810 K St., NW

Italian
Bertucci’s Brick Oven Ristorante
1218-1220 Connecticut Ave, NW

i Ricchi
1220 19th St., NW

Maggiano’s Little Italy
5333 Wisconsin Ave., NW

Primi Piatti
2013 I St., NW

Sesto Senso
1214 18th St., NW

Spezie
1736 L St., NW

Teatro Goldoni Restaurant
1909 K St., NW

Late Night Dining
Annie’s Paramount Steakhouse
1609 17th St., NW

Ben’s Chili Bowl
1213 U St., NW

The Diner
2453 18th St., NW

Kramerbooks & Afterwords Cafe
1517 Connecticut Ave., NW

Old Ebbitt Grill
675 15th St., NW

Mexican
Baja Fresh
1990 K St., NW

Seafood & Steak Grillfish
1200 New Hampshire Ave., NW

McCormick & Schmick’s Seafood Restaurant
1652 K St., NW

Morton’s The Steakhouse
1050 Connecticut Ave., NW

The Palm
1225 19th St., NW

The Prime Rib Restaurant
2020 K St., NW

Sam & Harry’s
1200 19th St., NW

Vegetarian & Vegan
Java Green 1
020 19th St., NW

Nirvana
1810 K St., NW

Wine Bars
cork
1720 14th St., NW

Proof
775 G St., NW
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