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Nanotechnology and the Environment

August 5-6, 2008

Crowne Plaza Hotel and Conference
Center • Indianapolis, Indiana

Hosted by

Assessment of Nanomaterials in the Environment
(ANE), Purdue University

Contributors

Nanotechnology Center • Center for the Environment,
Purdue University

Sponsored by

National Science Foundation, NIRT Program

Nanotechnology and the Environment

Over the last ten years, we have witnessed an explosion in the development and use of manufacturing and medical applications based on nanotechnology. Nanotechnology may represent a new industrial revolution which will bring new wealth and improvements in health and everyday life, but, will this new technology introduce new environmental impacts? The scientific society must make decisions about the best present and future opportunities offered by nanotechnology. But before we can make these decisions, we must understand the technology and its potential use, and develop an understanding of the risk and regulatory framework that needs to be created.

Citizen acceptance is an important component of any new technology adoption. Uncertainty about possible impacts of nanotechnologies requires research and an open dialog with stakeholders. The Nanotechnology and the Environment Conference will initiate this dialog.

Who Should Attend

Industry leaders, policy makers, and researchers who are involved in the production, or use, and are interested in the environmental implications of nanotechnologies are encouraged to attend.

CONFERENCE AGENDA

Tuesday, August 5

Morning Session, 10 a.m.-Noon

Welcome and Goals, Ron Turco, Natalie Carroll

Active Nanotechnologies: the Benefits and Risks of the Next Wave, Tim Sands

Allies or Detractors: Nanotechnology and the Environment, Barbara Karn

Surface Chemistry of Gold and Silver Nanomaterials: Environmental Implications, Cathy Murphy

Buffet Lunch

Very Small Business Opportunities in Nanoscience, Karl Koehler

Afternoon Session, 1:45-4:15 p.m.

The Potential Regulation of Nanotechnology: An Environmental Legal Perspective, David Heger

Conference Overview, *Assessment of Nanomaterials in the Environment Project*, Ron Turco

Development of Molecular Tools to Assess the Impact of Nanomaterials on Anaerobic Communities, Leila Nyberg and Larry Nies

Nanoparticle Alterations by Fungi, Tim Filley

The Use of Bioluminescent Bacteria for Toxicity Assays for Carbon Nanoparticles, Bruce Applegate

Reception, 5:30-6:30 p.m.

(cash bar) and student poster session

Dinner, 6:30 – 8:30 p.m.

Green Nanotechnology and Regional Innovation Strategies, Skip Rung

Wednesday, August 6

Morning Session, 8:15-Noon

Welcome and Recap, Nelson Shaffer

Nanotechnology Investment Opportunities, Pearl Chin
Phase Distribution and Environmental Photochemistry of Buckminsterfullerene (C60), Chad Jafvert

Fullerene Behavior in Aquatic Systems when Dispersed as Aggregates, Joseph Hughes

Bacterial Interactions with Metal and Metalloid Nanomaterials, Patricia Holden

Effects of Nanosilver on Fish Early Development, Marisol Sapiopovich

New Additions

Lunch – provided by Barnes & Thornburg LLC

Panel Discussion: *Commercializing Nanotechnology Innovation*, Moderator: Todd Vare

Agenda is tentative.

STUDENT POSTER SESSION

Tuesday, August 5 • 5:30-6:30 p.m.

Information for submitting posters:

- Submit an abstract by June 1 to Natalie Carroll, Ph.D., ncarroll@purdue.edu
- Abstracts should include: title, authors, brief description of your work (250 words maximum), and contact information (e-mail, mailing address, phone number).
- You will be informed if your poster is chosen by June 15.
- Posters will measure 4'x 4' maximum.
- Conference registration fee for those students who have a poster accepted is \$100.

GENERAL INFORMATION

Lodging Information

Reservations can be made at Crowne Plaza Hotel and Conference Center at historic Union Station in Indianapolis by calling 317/631-2221. Blocked rooms, specify: Nanotechnology and the Environment, for a special room rate of \$97 per night (actual train car room is \$119 per night). Rooms will be held until July 7, 2008. Participants are responsible for making their own lodging reservations.

Registration Information

The conference fee is \$200 and includes all materials and meals. There is a reduced fee of \$100 for government employees and for those students presenting posters.

Cancellation Policy

A full refund will be granted if a request is received by July 25, substitutions will be accepted at any time. Purdue University is not responsible for costs incurred due to cancellation.

For More Information

For registration information, contact: John Wellman, jmw@purdue.edu, 765/494-0243 or 800/359-2968.

For conference content information, contact: Natalie Carroll, Ph.D., ncarroll@purdue.edu, 765/494-8433.

Registration Form

5423-08YR-JMW

Nanotechnology and the Environment

REGISTRATION DEADLINE JULY 25

Name _____

Title _____

Organization _____

Address _____

City _____

State _____ Zip _____

Phone _____

Fax _____

E-mail (required) _____

I require auxiliary aids/services due to a disability. Please contact me at the above address.

I prefer a vegetarian meal.

Fees

Full Conference Fee – \$200

Government Employees – \$100

Students, with an accepted poster – \$100

Total Enclosed \$ _____

Payment Method Payment due upon submission of registration.

Enclosed is a check made payable to **Purdue University**.

Please charge to my: VISA MasterCard

American Express Discover

Account Number _____

Expiration Date _____

Signature _____

Printed Name _____

Please mail with payment to: CEC Business Services
Purdue University
Stewart Center, Room 110
128 Memorial Mall
West Lafayette, IN 47907-2034

Fax with credit card information to: 765/494-0567

Register online at: www.conf.purdue.edu/nano

Please photocopy this form for additional registrants.

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