



Pollution Prevention through Nanotechnology Conference September 25-26, 2007, Arlington, VA

Online Registration is Now Available!

Pollution Prevention through Nanotechnology Conference
Holiday Inn Rosslyn at Key Bridge
Arlington, VA



Please register at <http://www.epa.gov/oppt/nano/> by September 14, 2007.

EPA invites you to exchange ideas and information on using nanotechnology to develop new ways to prevent pollution. Representatives from industry, academia, non-governmental organizations, and government are invited to focus on current practices and potential research areas in nanotechnology that incorporate the concept of pollution prevention in three major areas:

- **Products:** Less toxic, less polluting, and wear-resistant.
- **Processes:** More efficient and waste-reducing.
- **Energy and Resource Efficiency:** Processes and products that use less energy and fewer raw materials.

The conference will feature discussions of nanotechnology life-cycle considerations and the responsible development of nanotechnology.

Questions To Be Addressed by Conference Participants:

The questions below are intended to focus presentations and discussions at the conference. Answers to these questions could help guide subsequent work in P2 through nanotechnology.

1. Which nanotechnologies show the greatest promise for preventing pollution?
 - This question should be viewed through the lens of life-cycle thinking to minimize the possibility of unintended consequences.
 - Which pollution prevention applications are the most likely to find real-world applications?
 - What barriers exist to the adoption of nanotechnology-enabled pollution prevention applications?
2. What are the most promising areas of research on pollution prevention applications of nanotechnologies?
 - Which research areas could improve our understanding of the full life-cycle of nanomaterials?
 - How can the beneficial properties of engineered products of nanotechnology such as increased surface activity, greater conductivity, improved strength-weight ratio, altered optical properties (changes in color or opacity), and flame retardancy be used to improve materials and products and reduce the production of pollutants at their source?
3. What recommendations do conference participants have for promoting and encouraging pollution prevention in the development and application of nanotechnology?
 - What actions could be taken, and by whom?
 - What mechanisms, programs, or associations could promote the research, development, and adoption of such applications?
 - What role can EPA programs play?

Background

Since the inception of the National Nanotechnology Initiative (NNI), nanotechnology has become one of the United States' top multi-agency research and development priorities. With 26 federal agency participants, NNI is a federal research and developments program established to coordinate the multi-agency efforts in nanoscale science, engineering, and technology.



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EPA is organizing the Pollution Prevention through Nanotechnology Conference as one of several actions to further our understanding of nanoscale materials and to encourage responsible development of nanotechnology that prevents pollution. The information from this conference will inform the development of EPA's program for nanoscale materials under the Toxic Substances Control Act (TSCA), including the development of a Nanoscale Materials Stewardship Program.

Agenda

The program will begin on Tuesday with individual presentations on current and anticipated nanotechnologies with potential pollution prevention applications. Panel discussions on selected case studies will be held on Wednesday. Posters will be on display throughout the conference, and will be featured during a Tuesday evening reception and poster session.

Meeting Site and Hotel Accommodations

Holiday Inn Rosslyn at Key Bridge
1900 Fort Myer Drive
Arlington, VA 22209

The conference will be held at the Holiday Inn Rosslyn, located one block west of the Rosslyn Metro stop. A conference rate of \$192/single, plus 10.25 percent tax, will be available.

Please call (703) 807-2000 or toll free (800) 423-0908. Ask for in-house reservations, and then reference the "EPA P2 Nanotechnology Conference" to receive the group rate. Reservations should be made by September 3rd. After this date, reservations are subject to space and rate availability.

Call for Posters

Posters are an excellent forum for authors to present informally, yet in a highly visible fashion, their most recent findings or applications. A poster session provides an opportunity for authors to directly communicate with participants of the conference and engage in detailed one-on-one discussions.

Successful posters should reflect the goals of the Pollution Prevention through Nanotechnology Conference. We encourage you to submit an entry for the poster session in the area of nanotechnology products, nanotechnology processes, or nanotechnology energy/resource efficiency. Posters with a focus on safer chemistries through use of nanotechnology are especially encouraged. Because of space constraints, a limited number of posters will be accepted in each area.

To submit an entry for the poster session, please send a short description (less than one-page) of the poster you would like to display. The description should:

- Identify which category your poster fits within (products, processes, or efficient use of resources);
- Show how it responds to the concepts raised in the three questions listed above and how it addresses responsible development; and
- Show whether environmental benefits can be quantified, such as reduction of use of hazardous chemicals or energy or resource savings.

Poster applications are due July 31st. Please submit poster applications to Clive Davies, Chief, Design for the Environment Branch, Economic, Exposure, and Technology Division (7406M), Office of Pollution Prevention and Toxics, Environmental Protection Agency, 1200 Pennsylvania Ave., NW, Washington, DC 20460-0001; telephone number: (202) 564-3821; email: davies.clive@epa.gov.