# Producing Results in Nanotechnology Today

**Commercialization of** NanoMaterials 2006

> September 18-20, 2006 **Hilton Pittsburgh** Pittsburgh, Pennsylvania

**ADVANCE BROCHURE** www.tms.org/nanomaterials2006.html

Organizers







pennsylvania



Partners







Carnegie Mellon



Commercialization of NanoMaterials 2006

> September 18-20, 2006 Pittsburgh, Pennsylvania

### **The Focus**

Nanomaterials that drive opportunities for high volume production of

- Coating Materials
- Structural Materials
- Functional Materials

## **The Participants**

Large Materials Producers Small, Medium and Emerging Companies University and Governmental Research Labs Financial, Legal and Other Support Organizations

### **Top 6 Reasons You Should Attend**

### Presentations by Fortune 500 companies that can make high volume applications in nanomaterials a reality:

- Air Products
- Bayer MaterialScience
- Degussa
- DuPont
- General Electric
- Kennametal

- Mine Safety Appliances
- PPG Industries
- Seagate Technology
- Timken
- United States Steel

#### Perspectives from emerging companies that will be selling nanomaterials to the commercial market:

- Advanced Diamond Technologies
- Advanced Nanotech
- Altairnano
- Cima Nanotech
- Crystalplex
- IDC Architects
- Integran
- Medtronic

- MetaMateria Partners
- Minerals Technology
- NanoDynamics
- NanoLambda
- NanoSteel
- Plextronics
- Power Metal Technologies
- Reactive NanoTechnologies

### Research and development presentations focusing on commercializing technologies from universities:

- Carnegie Mellon University
- North Carolina State University
   University of Pittsburgh
- Penn State University

- Ohio State
- Insights from U.S. government laboratories involved in supporting
- the development of nanotechnology:
- Air Force Research Laboratory
- Army's Armament Research, Development & Engineering
- National Institute of Standards and Technology

### Panel discussions on topics of critical relevance:

- Commercialization Challenges and Opportunities
- Intellectual Property Strategies
- Environmental, Health and Safety Considerations

### Value for your cost – additional learning and networking events included in your registration:

- (2) Pre-Conference Workshops
- Attendee Welcoming Reception
- Conference Luncheon
   Post-Conference Terre
- Networking Reception

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Post-Conference Tour

Register before August 28 – see page 11!

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## **Organizing Committee**



Alan Brown Pennsylvania NanoMaterials Commercialization Center



Dan Rardon PPG Industries Inc.



Kelly Wylam Pennsylvania Department of Community and Economic Development



Chad Wieland III Buchanan Ingersoll PC and Atlantic NanoForum



Paul Ziegler PPG Industries Inc. and American Chemistry Council



Warren H. Hunt Jr. and Todd Osman The Minerals, Metals & Materials Society (TMS)

## Preliminary Calendar of Events

Monday, September 18		
Noon	Registration Opens/Exhibitor Set-Up	
1 to 5 p.m.	Pre-Conference Workshops	
5:30 to 7:30 p.m.	Attendee Welcoming Reception at Senator John Heinz Pittsburgh Regional History Center	

### Tuesday, September 19

7:30 a.m.	Registration Opens
8 a.m.	Continental Breakfast in Exhibit/Keynote Area Exhibits Open
8:30 a.m.	Conference Welcome
8:45 a.m.	Keynote Addresses
10 a.m.	Networking Break in Exhibit Area
10:30 a.m.	Three Parallel Session Tracks
Noon	Conference Luncheon
1:15 p.m.	Commercialization Panel
2:45 p.m.	Networking Break in Exhibit Area
3:15 p.m.	Three Parallel Session Tracks
5 p.m.	Networking Reception
6 p.m.	Dinner Break

Wednesday, Septem	/ednesday, September 20	
7:30 a.m.	Registration Opens	
8 a.m.	Continental Breakfast in Exhibit/Keynote Area Exhibits Open	
8:30 a.m.	Keynote Address	
9 a.m	Environmental, Health and Safety Panel Discussion	
10:15 a.m.	Networking Break in Exhibit Area	
10:45 a.m.	Three Parallel Session Tracks	
Noon	Intellectual Property Panel (box lunch provided)	
1:30 p.m.	Conference Wrap-Up	
2 p.m.	Post-Conference Tour	

## **Programming Features**

### Workshops

### "Competitive Modern Manufacturing through Nanotechnology"

by Penn State Center for Nanotechnology Education and Utilization (CNEU)

### September 18, 1 p.m.

Nanotechnology is anticipated to play a key role in the next industrial revolution. How will you take advantage of the opportunities it offers to keep your company competitive?

## Who will benefit from this workshop?

Executives, managers, scientists and engineers responsible for charting the course for their company's future.

### Workshop Topics

- Basics of Nanotechnology
- Economic Outlook for Nanotechnology
- Resources for Nanotechnology
- Expertise and Education

Examples of current nanotechnology research will also be presented and

provide a basis for the discussion of current commercial needs and applications to be presented at the conference.

This workshop is being offered by CNEU through the Pennsylvania Nanomaterials Commercialization Center. Find out more about CNEU at www.cneu.psu.edu.

"Topography of Nanotechnology Intellectual Property"

by Michael Dever, *Buchanan Ingersoll PC* and Jeff Rosedale, *Woodcock Washburn LLP* 

September 18, 3 p.m.

### **Keynote Addresses**

"The National Nanotechnology Initiative: Engine for Innovation and Competitiveness"

by Celia Merzbacher, Assistant Director for Technology R&D, Office of Science and Technology Policy, Executive Office of the President "Nanotechnology: Managing EH&S Issues and Regulation with an Emerging Technology"

by Paul D. Ziegler, Global Director, PPG Industries Inc., and Chairperson, ACC Chemstar Nanotechnology Panel

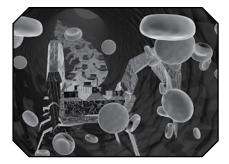
September 20, 8:30 a.m.

September 19, 8:45 a.m.

"The National Nanotechnology Initiative and Commercial Impacts: A Report from the National Materials Advisory Board"

by Jim Williams, Professor and Honda Chair, Department of Materials Science and Engineering, Ohio State University

September 19 (to follow 8:45 a.m. address)



## **Programming Features**

### **Panel Discussions**

### Perspectives on Commercialization of NanoMaterials

### September 19, 1:15 p.m.

#### Panelists:

- Keith Blakely, Chief Executive Officer, NanoDynamics Inc.
- S. Thomas Emerson, Director, Donald H. Jones Center for Entrepreneurship, Carnegie Mellon University
- Angus Kingon, Executive Director of Technology Commercialization, North Carolina State University
- James Trainham, Chief Technology Office, PPG Industries Inc.
- Richard Vaia, NanoMaterials Strategy Group Leader, U.S. Air Force Research Laboratory

## Environmental, Health and Safety

and Safety Organized by American Chemistry Council

#### September 20, 9 a.m.

#### Panelists:

- Elizabeth McMeekin, PPG Industries Inc.
- Shaun Clancy,
   Degussa
- Kimberly McDonald, Bayer MaterialScience LLC

#### Intellectual Property

Organized by Atlantic NanoForum

### September 20, Noon

Panelists:

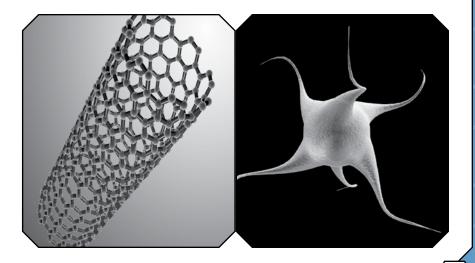
- Jeff Caldwell, Woodcock Washburn LLP
- Konrad Kaeding, DuPont
- Carl Mahler, Carnegie Mellon University
- Chad Wieland III, Buchanan Ingersoll PC

### **Post-Conference Tour**

### NanoScale Fabrication and Characterization Facility (NFCF), University of Pittsburgh

### September 20, 2 p.m.

This newly established, user facility houses state-of-the-art equipment in a clean-room environment over 4000 square feet. The facilities are designed to support nanoscale fabrication and characterization, especially with core nano-level (20 nm or below) capability, and include e-beam lithography (Raith e-Line), dual-beam (JEL SMI-3050SE), TEM (JEOL JEM-2100F), etc.



## **Networking and Social Events**

### Attendee Welcoming Reception

Invited Guest Speaker: Pennsylvania Governor Edward Rendell

September 18, 5:30 to 7:30 p.m. Great Hall, Senator John Heinz Pittsburgh Regional History Center

Sponsored by Pennsylvania Department of Community and Economic Development

The Heinz History Center operates in association with the Smithsonian Institute. Hors d'oeuvres and cocktails will be available before and after guests view the museum's collections of Rediscovering Lewis & Clark and the Western Pennsylvania Sports Museum, just to name a few. Round-trip transportation will be provided to the center from the Hilton Pittsburgh.



### Conference Luncheon

Introduction: Tom VanKirk, CEO, Buchanan Ingersoll PC

Speaker: Robert J. Kumpf, V.P. Future Business, America, Bayer MaterialScience LLC; Chairman, Pennsylvania NanoMaterials Commercialization Center

September 19, Noon Hilton Pittsburgh

Sponsored by Buchanan Ingersoll PC

### Networking Reception

September 19, 5 p.m. Exhibit Area

Network with colleagues and friends, and discuss your business needs with exhibitors, while enjoying hors d'oeuvres and cocktails.

### **Networking Breaks**

Tuesday, 10 a.m. and 2:45 p.m. Wednesday 10:15 a.m. Exhibit Area

## Registration

## **Register by August 28 and save \$100 off the advance full conference rate!**

	"Early Bird" Through August 28	"Advance" After August 28
Full Conference	\$250	\$350
Student	\$100	\$150

Advance registrations will be accepted through September 11. If you do not register in advance by September 11, you may register on-site at the Hilton Pittsburgh at the advance rate.

### Your Registration Includes:

- Technical Sessions
- Workshops
- Post-Conference Tour
- Receptions
- Continental Breakfasts
- Conference Luncheons

Badges must be worn to gain access to technical sessions and social functions.

## Three Convenient Ways to Register\* by September 11:

- 1. Register online at www.tms.org/ nanomaterials2006.html.
- Mail the enclosed registration form to TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, Pa., 15086-7514, USA.
- 3. Fax the enclosed registration form to (724) 776-3770.

\*Full payment in U.S. dollars must accompany the completed registration form.

#### Cancellation/Refund Policy

A request for refund due to cancellation must be made in writing and received at TMS World Headquarters no later than August 28, 2006. A \$75 processing fee is charged. Refunds cannot be granted after August 28, 2006. Mail refund request to TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, Pa., 15086-7514, USA.

## **Business Opportunities**

### Exhibition

## If your company is in the nano business, you'll get BIG RESULTS by exhibiting at Commercialization of NanoMaterials 2006!

Decision makers from business, industry, government and academia will be attending.

With keynote sessions and coffee breaks scheduled in the exhibit area, conveniently located adjacent to main meeting rooms, you'll have plenty of access to potential customers.

## Don't miss this opportunity - For more information about exhibiting, contact Cindy Wilson at TMS:

Telephone (800) 759-4TMS / (724) 776-9000 E-mail wilson@tms.org.

### Sponsorship

### Are you a leader in the area of nanotechnology?

Join a select group of companies sponsoring Commercialization of NanoMaterials 2006 for the opportunity to develop relationships with Fortune 500 companies and entrepreneurs active in the rapidly expanding commercial market of nanotechnology.

### Who will attend?

Entrepreneurs, industrialists, engineers, scientists, government development specialists and financiers

## Get involved in the commercialization of nanomaterials on the ground floor!

Review the sponsorship levels on the next page and complete the enclosed form to secure your sponsorship today.

### Sponsorship Levels

### I. Platinum

Benefits include:

- Name recognition and option to provide a speaker for the welcoming reception on Monday, conference luncheon or networking reception, on Tuesday
- Corporate logo on conference signage, program booklet and promotional materials, and hypertext link on conference Web site
- · Reserved space in hotel for private meetings
- (1) 8-foot display table in exhibit area
- (3) complimentary conference registrations
- Electronic list of conference attendee information

Sponsorship Amount: \$5,000

### ll. Gold

Benefits include:

- Name recognition as sponsor of continental breakfast, networking coffee break, conference program or conference signage
- Corporate logo on conference signage, program booklet and promotional materials, and hypertext link on conference Web site
- (1) 8-foot display table in exhibit area
- (2) complimentary conference registrations

Sponsorship Amount: \$2,500

### III. Exhibition

Benefits include:

- Corporate logo on conference signage, program booklet and promotional materials, and hypertext link on conference Web site
- (1) 8-foot display table in exhibit area
- (1) complimentary conference registration

Sponsorship Amount: \$750

## For more information or to discuss a customized sponsorship, contact Cindy Wilson at TMS:

Telephone (724) 776-9000 / (800) 759-4TMS E-mail wilson@tms.org

## **Our Generous Sponsors**



Pennsylvania NanoMaterials **Commercialization Center** 



Pennsylvania Initiative for Nanotechnology

## Buchanan Ingersoll PC

ATTORNEYS

## **Buchanan Ingersoll PC**

**Tuesday Luncheon** 



ECTUAL PROPERTY LAW ATLANTA • PHILADELPHIA • SEATTLE





Bayer MaterialScience

### Woodcock Washburn LLP

## **PPG Industries Inc.**

**Bayer MaterialScience LLC** 



**IDC Architects** 



University of Pittsburgh

**University of Pittsburgh Tuesday Afternoon Coffee Break** 



Pennsylvania State University

Carnegie Mellon Carnegie Mellon University



**Anter Corporation** 





Minerals Technologies Inc.

Kurt J Lesker Company

## **About the Location**

### **Hilton Pittsburgh**

The city's largest hotel, Hilton Pittsburgh is located at Gateway Center, facing Point State Park and Pittsburgh's famed three rivers. It is within walking distance of the cultural district, restaurants and shopping, and only six blocks from the new convention center. Across the river, stand the city's new sports stadiums, Heinz Field, home of the Super Bowl Champion Pittsburgh Steelers, and PNC Park, where the Pittsburgh Pirates play ball.

### **Computer Friendly**

Hilton Pittsburgh offers complimentary wireless access on the Mezzanine Level, where all conference activities will take place.

### **Reservation Deadline: August 28**

Reserve your room early to take advantage of special conference rates!

- Visit http://www.hilton.com and enter "NOM" in the Group Code box.
- Call (412) 391-4600 or 1-800-HILTONS.
- Fax the enclosed housing reservation form to (570) 450-1588.

For inquiries and cancellations, contact Hilton Pittsburgh at (412) 391-4600.



### The City of Pittsburgh – Not Just a Product of Steel Mills Any Longer

A world-class technology hub with recognized innovation in all areas of the industry, Pittsburgh is home to some of the most dynamic ventures, both startup and Fortune 500. Here, companies are developing the next generation of software and Internet applications, researching tomorrow's tissue engineering technologies, and perfecting advanced manufacturing techniques. We're capitalizing on our unique combination of natural and cultural amenities and a strengthening technology infrastructure to fuel our growth. The technical and scientific side of Pittsburgh is seen in the research departments of its renowned universities such as Carnegie-Mellon and the University of Pittsburgh, and in its hospitals, where patients from all over the world travel for life-saving transplant operations.

For more information about the city of Pittsburgh, visit www.visitpittsburgh.com.

### For Our International Attendees

Citizens of countries that require a visa to enter the United States are reminded that the process of obtaining a visa may take several months. It is necessary to begin the application process early. For visa information, visit the U.S. Department of State Web site at www.state.gov.

If a letter is needed to obtain a visa, please contact Deborah Price, TMS Meeting Services Coordinator, via e-mail at price@tms.org.

## F

#### Americans with Disabilities Act

TMS strongly supports the federal Americans with Disabilities Act (ADA) which prohibits discrimination against, and promotes public accessibility for, those with disabilities. In support of, and in compliance with, ADA, we ask those requiring specific equipment or services to contact TMS Meeting Services in advance.

### Audio/Video Recording Policy

TMS reserves the right to all audio and video reproductions of presentations at TMS sponsored meetings. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of TMS and the individual authors is strictly prohibited.

## About the Organizers

### Pennsylvania NanoMaterials Commercialization Center

The Pennsylvania NanoMaterials Commercialization Center brings together a cooperative of companies, including Alcoa Inc., Bayer MaterialScience LLC, PPG Industries Inc., and United States Steel Corporation as well as Carnegie Mellon University, the University of Pittsburgh, and the Pennsylvania State University. Founded in conjunction with the Pittsburgh Technology Council, the center focuses on research and production of new products and technologies related to nanomaterials. Its primary mission is to develop and commercialize innovative solutions to meet the current and future needs of the marketplace, including organic and inorganic nanomaterials, coatings, sensors and films applications.

### Pennsylvania Initiative for Nanotechnology

The Pennsylvania Initiative for Nanotechnology (PIN) is a statewide strategy that combines the efforts of the Pennsylvania Department of Community Economic Development, the commonwealth's six research universities, dozens of companies, economic development organizations and the state system of higher education. PIN is leveraging Pennsylvania's clusters of research, industry and economic development assets to make Pennsylvania a global leader in nanotechnology research and commercialization activities.

### Atlantic NanoForum

The Atlantic NanoForum emerged from the concept of self-help by the nanotechnology community and the U.S. Patent and Trademark Office (PTO). By providing detailed, technology-based lectures in specified areas, technical information and resources are shared to sharpen skills of the examiners and improve perception that PTO is sufficiently trained to handle the fast, emerging areas of nanotechnology. The forum also provides networking and educational opportunities for venture capitalists, startup companies, industry, researchers, government officials, policy makers and others so that vibrant

products and companies may emerge. Atlantic NanoForum participants include Buchanan Ingersoll PC, IEEE, ASME Nanotechnology Institute, MIT-Stanford-UC Berkeley Nanotechnology Forum, Nano Science and Technology Institute, Southeastern University Research Association, Girvan Institute of Technology, Quantum Insight and the Virginia Nanotechnology Initiative.

www.atlanticnanoforum.org

### **American Chemistry Council**

The American Chemistry Council (ACC) represents the leading companies engaged in the business of chemistry. The business community and regulatory authorities in the United States recognize the ACC Nanotechnology Panel as the primary industry forum for nanotechnology in the chemical industry and a leading resource regarding the responsible applications of nanotechnology. The panel's mission includes coordinating research initiatives undertaken by member companies and other organizations; fostering responsibly developed products and applications; advocating appropriate, science-based and harmonized regulations and standards; and engaging and collaborating with other stakeholders to develop and maintain public awareness and acceptance of nanotechnology. www.americanchemistry.com

### TMS

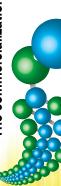
The Minerals, Metals & Materials Society (TMS) is the professional organization encompassing the entire range of materials in science and engineering, from minerals processing and primary metals production to basic research and the advanced applications of materials. Included among its professional and student members are metallurgical and materials engineers, scientists, researchers, educators and administrators from more than 70 countries on six continents. TMS' mission is to promote the global science and engineering professions concerned with minerals, metals and materials.

www.tms.org



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The commercialization of nanomaterials is coming – will you be there?



### Commercialization of NanoMaterials 2006

### **ADVANCE REGISTRATION FORM**

Advance Registration Deadline: August 28, 2006

Forms received past the deadline will be processed at the on-site fee. Payment must accompany form.

September 18-20, 2006 • Pittsburgh, PA, USA

Take advantage of online preregistration at <b>www.tms.org.</b> (Requires credit card payment)	Fax this form to TMS Meeting Services at (724) 776-3770. (Requires credit card payment)	Return this form with payment to TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086-7514 USA
Please print or type:		
Salutation 🗌 Dr. 🗌 Prof. 🗌 Mr. 🗌	Mrs. 🔲 Ms.	
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Student \$100		\$
(Students must attach a copy of school identi	ification card.)	Total \$
Registration fee includes technical sessions,	workshops, post-conference tour, receptions, con	tinental breakfasts and luncheons.
*If you are unable to register by Sept. 11, you	I may register on-site at the conference for the ad	vance fee.
	shops and post-conference tour at no charge	L.
Please indicate below if you will be attending:		nhar 19, 1 n m
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Payment Options:		
Check payable to TMS in U.S. dollars dra	wn on a U.S. bank	
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<b>Refund Policy:</b> Written requests for refunds due to cancellati cancellations. No refunds are processed after		st 28, 2006. A \$75 processing fee is charged for registration
Questions? Telephone TMS Meeting Service	es at (800) 759-4TMS or (724) 776-9000, ext. 243	8, or e-mail mtgserv@tms.org.

## Commercialization of NanoMaterials 2006

### **HOUSING REGISTRATION FORM**

September 18-20, 2006 • Pittsburgh, PA, USA

on the Internet, visit www.hilton.cor nter NOM in the Group Code secti		o (570) 450-1588.	Telephone the hotel directly at (412) 391-4600 or H Reservations Worldwide at 1-800-HILTONS.
Arrival Date	Departure Date		Total # of People in Room (Maximum is four. Every person staying in th must be assigned and registered to a room.
Please note: check-in tin	ne is 3 p.m.; check-out time is 11 a	.m.	
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Hilton Pittsburgh at (412)	aranteed by credit card for one nig 391-4600 at least 72 hours before : Monday, August 28, 2006		us tax. To cancel a reservation, notify the to avoid penalties.
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<b>Commercialization of</b>
NanoMaterials 2006
September 18-20, 2006

MAIL

Pittsburgh, PA, USA

Fax this form to TMS Accounting at **(724) 776-3770**. (Requires credit card payment)

### **SPONSORSHIP FORM**

Return this form with payment to TMS, Jacqueline DeLuca, Accounting Assistant, 184 Thorn Hill Road, Warrendale, PA 15086-7514 USA

FAX

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Please select sponsorship level and sponsoring event if applicable.			
☐ Platinum (\$5,000)	🗌 Gold	(\$2,500)	Exhibition (\$750)
O Monday Welcoming Reception at Senator John Heinz History Ce	enter	O Continental Breakfast	
O Tuesday Conference Luncheon		O Networking Coffee Break	
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