National Nanomanufacturing Network Newsletter

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The NNN Newsletter

Federal Government Policy Principles on Nanotechnology: Balancing Regulation and Oversight with Commercialization to Realize Full Potential

As the U.S. Senate Committee on Commerce, Science and Transportation considers a reauthorization of the National Nanotechnology Initiative, the Space and Science Subcommittee convened a hearing this month to examine the potential of nanotechnology. With Senator John D. Rockefeller IV (D-WV) chairing the hearing, expert testimony was provided by a panel that included Dr. Chad Mirkin, Director, International Institute for Nanotechnology, Northwestern University, Member of the President's Council of Advisors on Science and Technology (PCAST); Dr. Charles Romine, Acting Associate Director, Laboratory Programs, and Principal Deputy, Office of the Director, National Institute of Standards and Technology; Dr. Diandra Leslie-Pelecky, Director, West Virginia Nano Initiative, Professor of Physics, West Virginia University; Dr. Thomas O'Neal, Associate Vice President for Research and Commercialization, University of Central Florida Executive Director, University of Central Florida Business Incubation Program; and Dr. George McLendon, Howard R. Hughes Provost and Professor of Chemistry, Rice University. The panel of experts provided testimony on topics such as federal initiatives to coordinate research investments, barriers to commercialization, possible environmental and health risks, and steps the federal government can take to improve the return

Job Opportunities

CHM Postdoctoral Research Associate Position at NIST CNST

MEMS Operations Director at

on federal nanotechnology investments. More....

Regards,
Jeff Morse, Managing Director,
National Nanomanufacturing Network

Learn More about the National Nanomanufacturing Network

NIST Seeks Comments on Structure for Proposed Advanced Manufacturing Technology Consortia

A notice published today by the National Institute of Standards and Technology (NIST) in the Federal Register requests opinions from the public about the best ways to structure a proposed new Advanced Manufacturing Technology Consortia (AMTech) Program.

First described in the President's fiscal year 2012 budget request for NIST, the AMTech Program is a new public-private partnership initiative that would provide federal grants to leverage existing consortia or establish new ones focused on long-term industrial research needs. The grants would fund development of research road maps and projects in advanced manufacturing and enhance the research productivity of consortia members through improved coordination and efficiencies. The program's goal is to accelerate the innovation process-discovery to invention to development of new manufacturing process technologies-that creates skilled, high-wage manufacturing jobs. More....

National Nanotechnology Initiative nanoEHS Workshop Series Reports Now Available

Research Foundation of SUNY

Research Scientist - Component Lighting at Cree

Upcoming Events

Aug 8 - 10, 2011
Technologies for Future Micro-Nano Manufacturing

Aug 9 - 12, 2011
5th International Symposium on Nanotechnology - Occupational and Environmental Health

Aug 15 - 18, 2011
IEEE Nano 2011

Aug 21 - 25, 2011
NanoScience + Engineering 2011 - Part of SPIE Optics + Photonics

Aug 26 - 27, 2011
International Conference on Nano and Materials Science

Aug 28 - 31, 2011
Commercialization of Micro-nano Systems Conference

Aug 29 - Sep 2, 2011
International Conference on Manipulation, ManuÂfacturing and Measurement on the Nanoscale

View Full Calendar

Upcoming Calls

Nanomanufacturing Summit 2011
Submissions until July 29

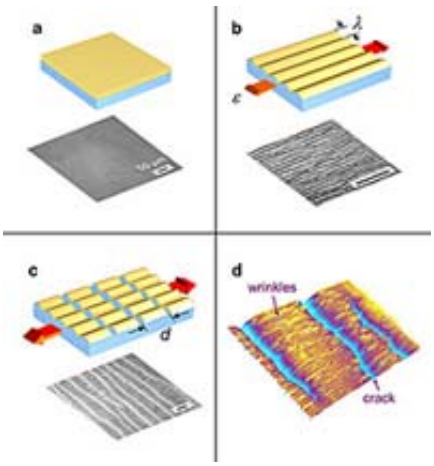
SPIE Defense, Security, and Sensing 2012
Submissions until October 10

SPIE Photonics Europe 2012
Submissions until November 7

View All Calls

The National Nanotechnology Initiative has developed an updated nanotechnology environmental, health, and safety (EHS) research strategy, informed by reccomendations from the National Academies, the President's Council of Advisors on Science and Technology (PCAST), and four workshop reports based on a 2009-2010 series of nanoEHS workshops. The NNI nanotechnology EHS research strategy encourages the responsible development of nanotechnology. More...

Nanomechanics: New Test Measures Key Properties of Polymer Thin Films and Membranes



Researchers at the National Institute of Standards and Technology (NIST) have demonstrated a measurement technique that reliably determines three fundamental mechanical properties of near-nanoscale films. The technique, which highlights the challenge of making mechanical measurements on an object with at least one dimension comparable to the size of a virus, should enable better design and engineering for a variety of thin-film technologies, particularly reverse-osmosis membranes for water purification. More...

NanoBusiness Alliance Interview - Michael R. Knapp

Recently Published

From Our Affiliates

Confinement Effects on Chain Entanglement in Free-Standing Polystyrene Ultrathin Films Macromolecules, 44(13):5436-5442

Silicone: A Replica Material with Several Advantages for Nanoimprint Lithography and Capillary Force Lithography Langmuir 27(13):7976-9

Colloidal Stability of Magnetic Iron Oxide Nanoparticles: Influence of Natural Organic Matter and Synthetic Polyelectrolytes Langmuir, 27(13):8036-8043

Synthesis of platinum and platinum-ruthenium-modified diamond nanoparticles Journal of Nanoparticle Research, 13(7):2997-3009

Adlayer Morphologies and Free Energy Landscapes of Clusters of Bis-Fullerenes on Model Gold Surfaces Journal of Physical Chemistry A, 115(25): 7044-7054

Affiliated Centers

CHM
Center for Hierarchical Manufacturing
University of Massachusetts Amherst

In this month's interview, we talk to Michael R. Knapp, Ph.D., President and Chief Executive Officer of Cambrios. Michael is a scientist and successful entrepreneur. Prior to joining Cambrios, Dr. Knapp co-founded and was CEO of Caliper Life Sciences (Nasdaq: CALP), then known as Caliper Technologies, and played an integral role in the creation and development of the company. Dr. Knapp also co-founded Amphora Discovery Corp., a chemical genomics company that was formed from within Caliper with independent funding and management. Before starting Caliper, Dr. Knapp served as President and Scientific Director at Molecular Tool, Inc., a genetics technology company that he co-founded. Dr. Knapp also served on the staff of the Center for Neurobiology and Behavior at Columbia University and was Scientific Director of Genetica SARL, an affiliate of Rhone Poulenc SA in Paris, France. Dr. Knapp holds a B.S. in Biology from Trinity College (Hartford) and a Ph.D. in Medical Microbiology from Stanford University. More....

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