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For Researchers | For Industry | Resources | Events | News | About



Nanomanufacturing Summit 2013

The nanotechnology innovation ecosystem within the U.S. remains firmly anchored by the fundamental science activities supported by federal and state government investments, being well positioned to accelerate the commercialization path for nano-enabled products. Effective technology transfer of translational R&D from laboratory proof-of-concept and prototype demonstrations remains a significant barrier to rapid commercial scale-up, and numerous models have emerged to better support this critical stage of the innovation cycle, including regional and

state models for stakeholder networks providing the critical connections between academic research, investors, and entrepreneurs. While measures of success for an innovation ecosystem are not always so easily derived, the approach of connecting capital, resources, and leadership with good science remains an enduring model which continues to shape the future for the commercialization of nanotechnology, with nanomanufacturing firmly embedded within the framework of advanced manufacturing in the U.S.

While innovations fostered through R&D investments in the nanosciences hold significant promise for societal and economic impact, navigating the path from lab to fab remains relatively long for many nanotechnology companies. Coordinated investments between state, and federal sources are now used to catalyze and leverage private capital, build an innovation ecosystem, and promote cluster-based development in regions across the U.S., further leveraging, for example, the many successful regional, state, and local initiatives and frameworks that have been developed. [The Nanomanufacturing Summit 2013 and 12th Annual Nanobusiness Conference](#), to be held in Philadelphia, PA October 15-17 2013, will provide a two day forum to assess the current state of nanotechnology innovation and commercialization, providing participants and attendees with the latest on emerging nanomanufacturing trends, successful transitions to commercialization, federal and state resources, including user facilities, models for regional cluster development and initiatives, and perspectives on nanomanufacturing within the framework of advanced manufacturing for global competitiveness.

More...

Beneq's Industrial Thin Film Coating Services Shorten Time to Market

To make it easier for customers to enter the thin film market, Beneq now offers a unique collection of coating services at its facilities in Espoo, Finland. This lowers the

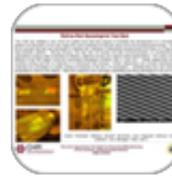
June 2013

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risk of new product development and provides a safe path for scaling up to industrial production. Beneq's capabilities in thin film coating services cover many upcoming commercial technologies.



Process

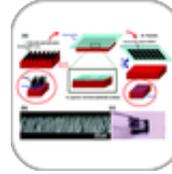
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Nanotechnology: Driving Sustainability

In the longer term, I predict nanomaterials will be used for lightweight impact-resistant fuel tanks. As we invent the infrastructure for filling stations, there's an opportunity to nano-engineer for more durable, efficient, reliable distribution systems, too.



Expert

Reviews

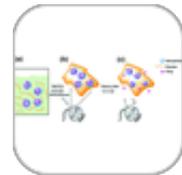
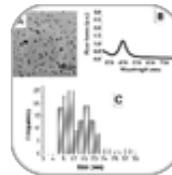
Highlights



New Product Features with Metallic Nanoparticles

VTT Technical Research Centre of Finland is developing new techniques for the production of metallic nanoparticles. VTT's new production reactor, operating at atmospheric pressure, reduces the

production costs of multicomponent particles. It enables the production of metallic nanomaterials, which are not yet commercially available, for research and product development needs.



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