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Newsletter

Volume 5 Issue 11 - November 2012

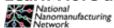
Enhancing New Areas of Content on InterNano, the National Nanomanufacturing Network Welcomes New Contributing Editors



In an effort to better serve the information needs of the nanomanufacturing community and stakeholders, the NNN is expanding the content areas on InterNano, the online information portal for the NNN, providing expert reviews, highlights, and menu additions on topics including Nanomanufacturing process control, Technology Transfer, Commercialization, and Economic Impact of NanoTechnology. Central to enhancing the information content provided is the addition of several new editorial staff to InterNano having specific expertise and backgrounds unique to these topics. As such, the National Nanomanufacturing Network welcomes the new contributing editors to its team. More....

Regards, Jeff Morse, Managing Director, National Nanomanufacturing Network

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UMass Amherst Research Develops 'Second Skin' Military Fabric to Repel Chemical and Biological Agents



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Conference

December 3-5, 2012

2nd Intl Conference on

Nanotek and Expo

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Printed Electronics Applications

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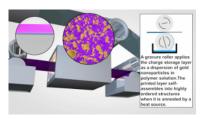


Military uniforms of the future may offer a new layer of critical protection to wearers thanks to research by teams at the University of Massachusetts Amherst and several other institutions who are developing a nanotube-based fabric that repels chemical and biological agents.

UMass Amherst polymer scientists Kenneth Carter and James Watkins, collaborating with team leader Francesco Fornasiero of Lawrence Livermore National Laboratory (LLNL), recently received a five-year \$1.8 million grant to design ways to manufacture the new material as part of a \$13 million project funded by the U.S. Defense Threat Reduction Agency. It's estimated that the new uniforms could be deployed in the field in less than 10 years.

More...

NanoBusiness Interview — Dr. Alan Rae, CEO, NanoMaterials Innovation Center



Roll-to-Roll Fabrication of a Floating Gate Transistor.

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Jan 29 - Feb 1 Phoenix, Arizona



Recently Published From Our Affiliates

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<u>Journal of Molecular Catalysis</u> A: Chemical 363: 208-213

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Development of antimicrobial stainless steel via surface modification with N-halamines: Characterization of surface chemistry and N-halamine chlorination

<u>Journal of Applied Polymer</u> <u>Science 127(1): 821-831</u>

Band structure of plasmons and optical absorption enhancement in graphene on subwavelength dielectric gratings at infrared frequencies Physical Review B 86(16)

Flexible Vertical Light Emitting Diodes

Small 8(20): 3123-3128



In this month's interview, we talk with Dr. Alan Rae, Chief Executive Officer of the NanoMaterials Innovation Center in Alfred, NY and Executive Director of Alfred Technology Resources Inc., operating business accelerators in Alfred, NY and Painted Post, NY.

I have known Dr. Alan Rae for over 10 years. He is one of the most fascinating scientists I have met in my career. Dr. Rae has worked in the electronics, ceramics, nanotechnology and "clean tech" industries for over 25 years in the UK and USA, managing global businesses and technology development at start-up, operating company and corporate levels.

Dr. Rae is active in industry associations and standards work with the NanoBusiness Commercialization Association, iNEMI, ISO, SMTA, IMAPS, IPC, and JISSO. He has held Director and VP positions with 4 new companies and has consulted for two Fortune 100 companies in alternative energy. He is an Entrepreneur in Residence with NYSERDA and a member of the NYSERDA-UB Directed Assistance Committee for Directed Energy. He is a member of the National Academies Triennial Review Committee for the National Nanotechnology Initiative.

More....

European Nanoelectronics Industry Proposes to Invest 100 Billion Euros for Innovation



The AENEAS and CATRENE organisations announced today the publication of a new positioning document 'Innovation for

the future of Europe: Nanoelectronics beyond

Affiliated Centers













2020'.

Highlighting the need for Europe to substantially increase its research and innovation efforts in nanoelectronics in order to maintain its worldwide competitiveness, the document outlines a proposal by companies and institutes within Europe's nanoelectronics ecosystem to invest 100 billion € up to the year 2020 on an ambitious research and innovation programme, planned and implemented in close cooperation with the European Union and the Member States.

More....

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Supported by the National Science Foundation under Grant No. CMMI-1025020.

