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Welcome to the July issue of the ONAMI Newsletter.

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In Other News

Director's Report

There is enough news of late that we will probably send out a monthly newsletter for a while. Growth in research awards and commercialization activities continues very successfully, with annual new awards across the collaboration running well above \$25M and our first four commercialization gap fund projects moving rapidly toward major investor and customer events. The countdown to the 2007 Micro Nano Breakthrough Conference by ONAMI and the Washington Technology Center has begun, and the program is simply outstanding in every way – as it should be for the nation's best regional nano event. Go to www.micronbc.org to reserve your place.



Small Times Media to be Presenting Media Sponsor of 2007 Micro Nano Breakthrough Conference

In addition, Small Times publisher Patti Glaza, who writes a regular column on small tech commercialization, will chair the plenary panel (including serial nano entrepreneur David Soane and regular Wall Street Journal contributor Paul Kedrosky) on "Sales and Market Development for Technology Entrepreneurs". (www.smalltimes.com)

This year's slate of keynote speakers, led by federal nanotechnology "chief" Clayton Teague, is second to none, and the array of technical sessions is sure to stimulate fascinating interactions for everyone. Once again, we will offer valuable educational short courses on Nanotechnology Basics and Intellectual Property & Technology Transfer.

Advance registration (discounted) is open through August 27, but early signup is recommended. For full program details and easy online registration, go to www.micronbc.org



ONAMI to receive \$9M new investment, as part of \$28M

Oregon InC package

The Oregon Legislature voted to fund a \$28 Million package of Oregon Innovation Council (Oregon InC) economic development initiatives, including \$9 Million in funding for ONAMI operations. ONAMI intends to grow the commercialization "gap" grant program from \$700,000 in the last biennium to \$2.5 Million in the new biennium. The funds will also be leveraged to grow Federal and private research at Oregon institutions, extend the network of instruments and tools available to private and university researchers, and attract Signature Research Fellows to the state. For more information on the OR InC initiatives, go to <http://www.oregoninc.org/index.htm>



ONAMI Signs on as Endorsement Partner for SME-Foresight Productive Nanosystems Roadmap Conference October 9-10 in Washington DC

ONAMI affiliate, Battelle, has partnered with the Foresight Nanotechnology Institute to develop the Roadmap that will be unveiled at the conference.



ONAMI member Paul Burrows of PNNL will be speaking on "Molecular Design of Solid State Lighting for Energy Efficiency".

The conference is being organized by Society of Manufacturing Engineers. Conference information can be found at:

<http://www.sme.org/cgi-bin/get-event.pl?--001739-000007-020696--SME->

For more information on the Foresight Nanotechnology Institute, go to:

<http://www.foresight.org/roadmaps/index.html>

ONAMI Member Researchers Honored

Green nanoscience was in the news as awards went to four ONAMI members from Oregon State University. OSU researchers Robert Tanguay, Stacey Harper and Alan Bakalinsky received two out of twelve 2006 EPA Nanotechnology Research (STAR) Grants, totalling \$600K. Kaichang Li received the Presidential Green Chemistry Award from the National Academy of Sciences.

Tanguay and Harper were awarded \$400K for A Rapid In Vivo System for Determining Toxicity of Manufactured Nanomaterials based on the OSU embryonic zebrafish experimental model, which yields a rich array of biological effects information. Bakalinsky, together with Qilin Lu of Rice University, was awarded \$200,000 for Genomics-based Determination of Nanoparticle Toxicity: Structure-function Analysis using yeast as an experimental model, due to its well-mapped genome, rapid reproduction and easy manipulation.

Kaichang Li invented a non-toxic adhesive for production of wood composite panels. Li received one of only seven Presidential Green Chemistry Awards, presented by the Environmental Protection Agency, which sponsors this program that honors innovators who have helped reduce waste or toxins in manufacturing processes. Also recognized were Li's industrial collaborators in the development of this product, Columbia Forest Products of Portland, Ore., and Hercules Incorporated of Wilmington, Del.

For more information: <http://www.onami.us/news/news.php?id=111> and <http://www.onami.us/news/news.php?id=109>

Phenom Tabletop Scanning Electron Microscope Introduced

FEI Company (Hillsboro, OR) introduced the Phenom(TM) Tabletop Scanning Electron Microscope in San Francisco. Described by KGO reporter Richard Hart as the "iPOD of Science", the Phenom makes accessible 20,000x viewing of samples such as sea anemone stingers, the internal workings of airbag accelerometers and more than most people want to know about what is stuck to the bristles of their toothbrush.



ONAMI Board Chair David Chen joined FEI Company CEO Don Kania at the event, which was covered by San Francisco ABC affiliate KGO Channel 7 (see news story at

http://abclocal.go.com/kgo/story?section=drive_to_discover&id=5420754)

With funding from the US Department of Energy, ONAMI is collaborating with FEI on the development of the Phenom for use in education and research settings. Curriculum development for the Phenom is being done at PSU, OSU, UO and Chemeketa Community College. This work is also being supported by the US Department of Energy. The goal of the curriculum development is to bring nanoscale science into the classroom for undergraduates, community college students, and even K-12 science classes.

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