Center for Nanotechnology Education and Utilization Bulletin – April, May, & June 2005

The Penn State Center for Nanotechnology Education and Utilization (CNEU) is the home of the Pennsylvania Nanofabrication Manufacturing Technology (NMT) Partnership, and the NSF Advanced Technology Education (ATE) Center for Nanofabrication Manufacturing Education. It is also the Penn State home of the NSF National Nanofabrication Infrastructure Network (NNIN), the national NSF nanotechnology resource for enabling academic and industry R&D.

The CNEU Mission:
The CNEU is dedicated to research, development, and education across all aspects of micro- and nanotechnology. The Center resources are focused on addressing the incorporation of nanotechnology into secondary education, into post-secondary education, and into industry applications.

CNEU – Highlights of Upcoming Activities:

NMT Partnership Job Fair: The Pennsylvania NMT Partnership will be holding a Job Fair on Thursday, September 22, 2005 at University Park. This event will bring together Pennsylvania employers, students enrolled in the capstone semester, and alumni of the NMT capstone semester. Contact Darlene Fink at 814-865-5285 or dfink@engr.psu.edu to register, or for further information.

CNEU Program Highlights for April-June 2005

University Day at Fairchild Semiconductor: Center representatives and several NMT Capstone Spring 2005 semester students attended a University Day at Fairchild Industries in Mountaintop, PA on April 1, 2005. Students learned about micro-nanotechnology industry applications at Fairchild and also toured this state of the art facility.

Hands-On Nanofabrication Workshop for Educators: This three-day workshop was held May 9-11, 2005 with thirty-two (32) educators from Pennsylvania, across the nation, and several international institutions in attendance. The participants learned about the growing applications of nanotechnology in many industries including the biotechnology, MEMs, optoelectronics, chemical and electronics industries. The basics of nanofabrication processes and tools were covered and practiced through a combination of classroom lectures and hands-on processing labs in the class 10 clean rooms of the Penn State Nanofabrication Facility. The next workshop in this continuing series will be held Fall 2005.

Summer Nanotech Camps: The 2005 three-day Nanotechnology Introduction Camps are once again proving to be a great success with 12 scheduled for this summer. Five of these twelve three-day Nanotechnology Introduction Camps were held in June 2005 with a total of 88 attendees and the last camp will take place at the end of July. These Nanotech Introduction Camps, for students in 9th grade and above, are an acknowledged, excellent opportunity to learn about nanotechnology and nanofabrication. Processing and applications of nanotechnology are covered and, just as importantly, careers are explored and educational pathways to nanofabrication careers are discussed. The agenda is designed to be interactive and fun, while still maintaining a high level of introductory level knowledge. Please keep these camps in mind for next summer. They fill up fast. Also, don’t forget our 1 day camps held throughout the year. Contact Bob Ehrmann at rke2@psu.edu for further information on all camps.

New Outreach Materials: A statewide press release was issued on May 30, 2005 for the 30 second Pennsylvania NMT Partnership informational video promotion featuring Governor Ed Rendell. This video is presently being distributed to 60 television stations across Pennsylvania in preparation for regular broadcast.

CNEU Outreach: During this period, the center has received visits by 217 people from 12 organizations. In addition, center personnel have visited 5 sites impacting 161 people. This off-site outreach included presentation at Innovereunt 2005, several Science in Motion development workshops, and an Educators Workshop at Temple University.

For Further Information on these Highlights or on the NMT Partnership in general, please contact:

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