Mission Statement: The PSU Nanofabrication Facility is dedicated to research, development and education across all aspects of micro- and nanotechnology. Its Nanofabrication Manufacturing Technology (NMT) Partnership is a National Science Foundation and Commonwealth funded initiative based on sharing the Penn State Nanofabrication Facility across Pennsylvania. Using the resource-sharing approach, the NMT Partnership addresses the tasks of (1) enhancing workforce development, (2) improving K-12 science and technology education, (3) increasing educators' awareness of Micro- and Nanofabrication-based technologies, and (4) providing training, research and development assistance to Pennsylvania industry. The NMT Partnership has the goals of increasing job opportunities for Pennsylvanians and of nurturing and growing microfabrication-based, nanofabrication-based, semiconductor, and semiconductor-supplier industries in the Commonwealth.

Program Highlights for the Month of April 2003

NMT Job Fair
The Spring 2003 NMT Job Fair took place on April 11th with company representatives from Fairchild Semiconductor in Mountain Top, PA, Thermodynamic Sensors in West Chester, PA, and the Penn State Nanofabrication Facility in State College, PA. Company presentations took place in the morning to introduce students to the representative companies and student interviews took place in the afternoon. All interested students interviewed with at least one company during the successful job fair.

NMT Partnership Activities:
The following schools and organizations visited the Nanofab to learn about nanotechnology, the NMT program, and to tour the facility:

- Carlisle Area School District on April 4th with 15 in attendance
- Archbishop Ryan High School in Philadelphia, PA on April 8th with 37 in attendance
- IEEE Penn State Behrend chapter on April 15th with 4 in attendance
- Crestwood High School in Mountain Top, PA on April 17th with 5 in attendance
- Penn College of Technology in Williamsport, PA on April 21st and 24th with 8 and 12 in attendance respectively
- Greenville Area School District 1-Day Nanotech Camp on April 23rd with 8 in attendance
- Harrisburg Area Community College on April 25th with 10 in attendance
- South Hills School of Business and Technology in State College, PA on April 25th with 5 in attendance
- Reading Area Community College on April 29th with 4 in attendance

Up-coming Activities

May 5-7
Hands-on Nanofabrication Workshop for Educators
This workshop will be a “hands-on” exploration of the world of nanotechnology. There are 31 participants signed up from PA community colleges, universities in the State System of Higher Education, Secondary Schools, Vocational-Technical Schools, and Penn State campuses. The next workshop for educators is scheduled for October 2003. Information will be posted closer to the date.

Summer 2003 Term
Summer term begins May 19th and will end August 8th. There are currently 22 students enrolled from Cambria County Area Community College (1), Cheyney University (3), Community College of Philadelphia (3), Harrisburg Area Community College (1), Lock Haven University (1), Lehigh Carbon Community College (1), Luzerne County Community College (1), Montgomery County Community College (2), Penn College of Technology (1), Penn State Dubois (3), Penn State Hazleton (1), Reading Area Community College (2), and Shippensburg University (2).

Nanotech Camps
There are one-day Nanotech Camp opportunities for students in 7th grade and above throughout the year. These one-day camps are focused on introducing nanotechnology to students and on increasing student awareness of the impact of this technology and its career opportunities. There are also three-day Nanotech Camp opportunities only offered during the summer for 9th grade and above students. The three-day camps are focused on a more detailed look at nanotechnology, nanofabrication, career opportunities and educational pathways. Further information is available at the website link http://www.nanofab.psu.edu/ATE/Education_Programs/k12.prog.htm.

There are ten three-day camps scheduled for this summer. The camp groups are coming from Philadelphia, McKeesport, Clarion, Harrisburg, Coatesville, and Pittsburgh areas.

For further information on these Highlights or the NMT Partnership, contact:

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