Mission Statement: The PSU Nanofabrication Facility is dedicated to research, development and education in 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 among Pennsylvania institutions. Using the resource-sharing approach, the NMT program 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 Program 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 June, 2002

Summer 2002 Chip Camps
Eight chip camps are scheduled for this summer with six in the month of June. So far this summer, “campers” have come from Mercer, Clarion, McKeesport, Harrisburg, and Philadelphia areas. New guidelines for next summer’s camps are being developed based on this summer’s experiences and feedback. Contact Phi-Oanh Pham for these new guidelines.

June 11
BIO 2002 participation
The Biotechnology Industry Organization (BIO) holds an annual convention and exhibition and this year’s event was in Toronto, ON, Canada. Dr. Stephen J. Fonash was the invited panel chair for a session on nanobiotechnology that attracted over 400 attendees. This successful session introduced how nanotechnology can be applied to biotechnology. There was a great deal of interest in this subject. Clearly the biotechnology community is becoming aware of the impact of nanobiotechnology.

Up-coming Activities

Fall 2002 Term:
Fall Term begins August 27, 2002 and the term will end December 16, 2002.

October 3-4
Fifth Annual Nanofabrication Manufacturing Technology Conference
This year’s annual conference will be held at the Sheraton Four Points Harrisburg and will be expanded to involve the state’s leading research universities along with the NMT Partnership. The conference will address nanotechnology research and technology transfer as well as education. More information will be provided in future bulletins.

October 14-16
Educators Workshop: Hands-on Overview of Nanofabrication Processing
This workshop is designed to acquaint the participant with the micro-and nanofabrication fundamentals used in molecular electronics, microelectronics, displays, optoelectronics, microelectromechanical systems, solar cells, and applications in biotechnology. Participants of this workshop will experience hands-on processing in the class 10 cleanrooms of the Penn State Nanofabrication Facility utilizing state-of-the-art processing tools and equipment. Registration details will be provided in next months bulletin.

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

- Phi-Oanh Pham (814) 865-6962 ppham@engr.psu.edu
- Doug Fenwick (717) 866-9659 dfenwick@engr.psu.edu
- Lisa Daub (814) 865-9635 ldaub@engr.psu.edu