AGENDA

10:00 a.m. - 10:45 a.m.  Continental Breakfast and Registration - Kemper Hall Lobby

10:45 a.m. - 11:00 a.m. Chair's Welcome - 1065 Kemper Hall  
Professor Kent Wilken

11:00 a.m. - 11:30 a.m. Faculty Presentations - 1065 Kemper Hall  
"2D and 3D Photonic Integrated Circuits for Future Communication, Computing, and Imaging System Applications"  
Professor S. J. Ben Yoo  
Abstract: We will discuss heterogeneous 2D and 3D photonic integration technologies to realize electronic-photonic-integrated-circuits (EPICs) for future chip-scale microsystems. Future prospects and challenges in computing, networking, and imaging applications will also be discussed.

11:30 a.m. - 12:00 p.m. "Atomically Sharp Ceramic and Semiconductor Blades for Surgery and Hair-removal Applications"  
Professor M. Saif Islam  
Abstract: This talk will present ongoing research on atomically sharp, rust-proof ceramic and semiconductor blades with multi-dimensional self-cleaning cutting-edges, integrated sensors and micro-fluidic channels to offer unprecedented surgery and hair-removal solutions. Such technologies are enabled by highly matured, inexpensive, high-throughput micro and nano-fabrication technologies and have a significant performance and price advantage compared to their commercially available counterparts.

12:00 p.m. - 1:15 p.m. Lunch - 1127 Kemper Hall

1:15 p.m. - 2:15 p.m. Fast-Forward Presentations - 1127 Kemper Hall
2:15 p.m. - 3:45 p.m. Poster Session - Kemper Hall Lobby  
The poster session will give an overview of the exciting research going on in the department. In order to give you a quick glimpse of the posters, all presenters will describe their posters in a "fast forward" style. We plan to have a monetary awards for outstanding posters for undergraduate and graduate-level research projects. We ask you to rank the posters using the score sheets to be handed out.

3:45 p.m. - 5:00 p.m. Open Research Labs

5:00 p.m. Reception - Kemper Hall Lobby