

# KETTERING UNIVERSITY

# KIET NEWSLETTER



Issue 2

June 1, 2006

## KETTERING INDUSTRIAL ECOLOGY TEAM

### Upcoming Events

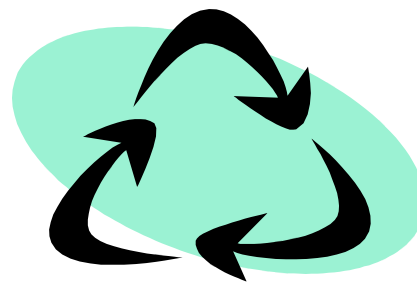
- Guest Speaker Series: John Bradburn of General Motors Corporation will be speaking at Kettering to students, faculty, staff and the local community during the spring (5/24/06) and summer (8/4/06) term.
- Upcoming guest speakers include Gabe Wing of Herman Miller and Dave Rinard of Steelcase.
- Advisory Board Members will be contacted in June 2006 by Mike Ennis for the purpose of providing feedback to NSF on the annual meeting in December 2005 and ongoing course development efforts.
- Next Advisory Board Meeting will be scheduled in Summer 2007 at General Motors—specific details TBD

### Fond Farewell to KIET Leader and Welcome to New Member

The original Principal Investigator for the National Science Foundation (NSF) grant entitled "Development of a Course in Environmentally Conscious Design and Manufacturing for Undergraduates" (DUE #0511322), Dr. Trevor Harding, is leaving Michigan for the sunny beaches of California. Dr. Harding has accepted a position in the Material Engineering Department at California Polytechnic at San Luis Obispo effective September 2006. The Course, Curriculum and Laboratory Improvement Program grant will continue its work-in-progress at Kettering under the leadership of Co-PI,

Dr. Terri Lynch-Caris. Another change in personnel is the addition of Senior Personnel, Dr. Jennifer Aurandt. Dr. Aurandt is an Assistant Professor of Chemistry at Kettering and specializes in Biochemistry. She comes to Kettering from the University of Michigan campus where she recently completed her Ph.D. The KIET team residing on campus at Kettering includes:

Jennifer Aurandt (Chem), Andy Borchers (Busn), Kristie Boskey (student), Jackie El-Sayed (ME), Vida Fischer (Univ. Adv.), Craig Hoff (ME), Terri Lynch-Caris (IME), and Ben Redekop (LS).



### Recent Publications

Borchers, A., et al, "Undergraduate Course in Environmental Design and Manufacturing" Society of Manufacturing Engineers, 2006

Lynch-Caris, T.M. and Borchers, A.; "Creating A Multi-Disciplinary Course With Industrial Input" Industrial Engineering Research Conference, May 22, 2006.

Upcoming papers - ASEE, June '06

### Course Module Development



**Ben Redekop** has begun developing a first draft of one of the topic modules for the IME540 course. Module 1 is titled "Technology, the Environment and Industrial Ecology" and consists of three sessions that serve to present broader historical, social, and ethical dimensions of industrial activity paying particular attention to environmental impacts. Discussion of the need to move

towards a sustainable society will be followed by introduction to the notion of industrial ecology and sustainable business practices. Students will also be introduced to basic environmental science and specific environmental performance metrics. Students will participate actively in case study discussions from a historical perspective.