

KETTERING INDUSTRIAL ECOLOGY TEAM

KIET NEWSLETTER



Issue 6

KETTERING UNIVERSITY

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Upcoming Events

- IME540 - "Environmentally Conscious Design" offered as an asynchronous online course in Wi/Sp 2009.
- Review of Phase II Proposal to NSF expected in Spring 2009.
- GEO (Green Engineering Organization) speaker series and student events continue on campus.

NSF Phase I completion turns to Phase II proposal

On December 31, 2008 the National Science Foundation (NSF) Phase I CCLI grant (DUE #0511322) period officially ended. The KIET group submitted a final report summarizing the results of the six goals of the original grant:

1. Course Development
2. Adapt and Implement
3. Input from stakeholders
4. Integrate into curriculum
5. Assessment/Evaluation
6. Dissemination

In January 2009 a Phase II proposal was submitted for a multi-institutional effort to integrate sustainability concepts throughout various curricula. The proposal outlines the development of modules related to sustainability concepts that will be used in existing courses. Kettering (KIET) will collaborate with Michigan Tech and Delta College.



IME 540 goes online

IME540: *Environmentally Conscious Design* is being delivered online for Winter and Spring terms of 2009. The learning units have been redesigned into online modules with the support of Donna Wicks and Tracey Rodgeron from the new online education resource office at Kettering. A key benefit to the online format is greater availability to both undergraduate and graduate students. The challenge of keeping the class interactive is achieved through discussion boards and group work. Video taped lectures and online resources have allowed flexibility in delivery. Seventeen students are currently enrolled Wi09.



Founding KIET member, Dr. Terri Lynch-Caris developed Unit 5 and serves as the PI for the NSF CCLI Phase I grant.

Course Module Development

KIET member Terri Lynch-Caris is an Associate Professor of Industrial & Manufacturing Engineering at Kettering. She serves as the Principal Investigator (PI) for the Phase I NSF grant replacing Trevor Harding. She is responsible for developing and teaching Unit 5 in IME50, "End-of-Life Options." Her message for students is that the original design of a product dictates

the environmental impact at the end of its useful life. A major activity in Unit 5 is a visit to the local landfill where the sights, sounds and smells tell the story of an engineered solution (sanitary landfill) for an unsustainable product design. End-of-use strategies are proposed by students related to the design of their common products to reduce the amount of waste to the landfill.

Fond Farewell



Founding KIET member, Dr. Ben Redekop, has moved to the campus of Christopher Newport University and will continue to serve on the KIET Advisory Board.

Advisory Board

Thank you to Advisory Board Member, Gabe Wing and Herman Miller for hosting the fourth annual Advisory Board Meeting on October 1, 2008. The results of the KIET CCLI Phase I efforts were reviewed and discussion surrounded how to move forward into the next phase. Pending Phase II funding from NSF, a fifth meeting will occur in 2009. Please contact Terri Lynch-Caris (tlynch@kettering.edu) if you know of someone who would like to serve on this advisory board in the future.