CONGRATULATIONS TO INTERIM DEAN TUNDE OGUNNAIKE WHO WAS ELECTED TO THE NATIONAL ACADEMY OF ENGINEERING!

This Week’s Department Events:

- **Reception in Honor of Interim Dean Tunde Ogunnaike**
  Tuesday, February 14, 2012
  4:00pm
  2nd Floor Lobby of Colburn Lab

- **Career Services and the Women in Engineering Steering Committee invite you to an interactive workshop by Farzana McCormick**
  Dealing with Conflict through Effective Communication
  February 17 @ 3:30pm in 123 Sharp Hall
  Description: This interactive workshop will focus on helping graduate students resolve conflicts in the workplace. We will discuss various communications styles and come up with collaborative solutions to real issues you face on a daily basis.

CBE In the News:

- **Engineering elite: National Academy of Engineering elects UD’s Babatunde Ogunnaike**

- **Chemical Engineering department renamed**
  [http://www.udreview.com/chemical-engineering-department-renamed-1.2772377](http://www.udreview.com/chemical-engineering-department-renamed-1.2772377)

- **Yushan Yan to present inaugural lecture as Distinguished Professor of Engineering**

- **Finding and treating people with TB in Tanzania**
  (see attachment)

- **Inventors recognized: Innovators and entrepreneurs honored at reception**

- **White House Visit: Delaware BioGENEius winner attends White House Science Fair**
  [http://www.udel.edu/udaily/2012/feb/patel-white-house-020812.html](http://www.udel.edu/udaily/2012/feb/patel-white-house-020812.html)

- **Wash your hands: Take precautions to stay well**
  [http://www.udel.edu/udaily/2012/feb/precautions020912.html](http://www.udel.edu/udaily/2012/feb/precautions020912.html)

Future Department Events:

- **February Meeting of the Delaware Section of ACS**
  Thomas H. Epps, III, UD
  Thursday, February 23, 2012
  6:00pm at the Courtyard Marriott
  “Using Block copolymers to Create Conducting Nanomaterials”
http://m.delacs.sites.acs.org/site/webs_48713034/home?url=http%3A%2F%2Fdelacs.sites.acs.org%2Fapps%2Fcalendar%2FshowEvent%3FcalID%3D3863681%26eventID%3D166735530%26next%3DshowMonth%253fcalID%253d3863681%2526year%253d2012%2526month%253d1&dm_package=2#1023

- **Department Seminar**  
  Scott Diamond, University of Pennsylvania  
  Friday, February 24, 2012  
  10:00am in 102 CLB  
  “High Throughput and Multiscale Patient-Specific Systems Biology”

- **Yushan Yan Inaugural Lecture**  
  Wednesday, March 7, 2012  
  4:00pm in 115 Purnell Hall  
  “Clean Energy: Flash without Flame”

- **COBRE Symposium**  
  Monday, May 14, 2012  
  8:30am - 5:15pm  
  Trabant University Center, Multipurpose Rooms A, B, & C  
  [http://www.che.udel.edu/cobre/registration_open.html](http://www.che.udel.edu/cobre/registration_open.html)

**Jobs/Recruiting:**

- The School of Chemical Engineering, Purdue University, seeks outstanding individuals at Assistant, Associate or Full Professor rank with a Ph.D. degree in Chemical Engineering or closely related field.

- **These and other available positions can be found on the Chemical Engineering opportunity website ([http://www.che.udel.edu/opps.html](http://www.che.udel.edu/opps.html)), so be sure to check it regularly.**

**Other Department Seminars:**

- **MEEG Seminar**  
  Dr. Miroslav Krstic  
  Friday, February 24, 2012  
  12:15pm in 114 Spencer Lab  
  “Extremum Seeking Control: From E. Coli Chemotaxis to Economic Competition”

- **MSEG Seminar**  
  Dr. Ana-Rita Mayol, University of Puerto Rico  
  Monday, February 20, 2012  
  10:00am in 106 CCM  
  “Bringing Research into the Classroom: Improving STEM pre-college, undergraduate and graduate education by using effective Human Resource Development, Education and Outreach strategies”

- **POSE Seminar Announcement**  
  Dr. Allan Pierce  
  Friday, February 17, 2012  
  3:00pm in 206/202 Cannon Lab  
  “Low frequency behavior of sandy and muddy sediments”

- **Teaching Seminar**  
  Tuesday, February 14, 2012  
  11:00am in 336 Ewing Hall  
  “Large Class Size Issues”

- **Discrete Math Seminar**  
  Felix Lazebnik, UD  
  Tuesday, February 14, 2012
5:00pm in 336 Ewing Hall
“Mathematics of Herbert S. Wilf (1931-2012)

- Numerical Analysis & PDE Seminar
  Andrei Draganescu, University of Maryland
  Wednesday, February 15, 2012
  2:00pm in 336 Ewing Hall
  “Multigrid preconditioners for linear systems arising in PDE constrained optimization”
Finding and treating people with TB in Tanzania

- State of the art diagnostics is brought into poor rural areas to offer the best in TB and HIV care
- Almost 60% increase in TB case notifications in project areas
- First time that Xpert MTB/RIF has been used at a community level on a mobile van

Mbeya - In the Mbeya Region of Tanzania, a revolutionary new diagnostic technology is changing the health outlook of rural communities and the health staff that serve them. Since late in 2010, a partnership between the University of Munich and the National Institute for Medical Research has begun screening hard-to-reach communities for tuberculosis (TB). Patients suffering from the disease who had previously tested negative using conventional, 100 year old procedures are now being identified and receiving treatment. Not only can they now hope to get well, they no longer spread the disease through their families and communities.

The mobile van carrying the new technology functions as an HIV testing center and the side of the van doubles as a screen for the community to view films where it is parked in the evenings. The University of Munich and the National Institute for Medical Research project has resulted in increased case detection in the project areas which include some urban areas and prisons as well. The new diagnostic tool, the Xpert MTB/RIF test, provides a result in less than two hours, as compared to days or even weeks using conventional smear and culture diagnosis, and is bringing state of the art technology to the Mbeya Region. Because the turn-around time for diagnosis is so much shorter than that for conventional screening, patients no longer have to come back several times before they get results, which can prove burdensome for people who are only able to access health facilities with difficulty. They can wait for the results and begin treatment the same day, eliminating the cost of return trips to health facilities which by itself can impede good care for these populations. This new capability, made possible by TB REACH, has improved both the likelihood that people will be willing to go through the process of being tested for TB and the chances of better outcomes, due to earlier treatment.

TB case detection has more than doubled in the project area compared to the previous year and Dr. Petra Clowes, the leader of the initiative in Tanzania noted “This is the first time that this new diagnostic tool has been used at a community level at rural health centers and on a mobile van. It is quite exciting to see the immediate benefits of such amazing technology among populations that previously had such poor access to healthcare.”