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## CEAS e-news 03.01.2011

College of Engineering and Applied Sciences

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Western Michigan University

# College of Engineering and Applied Sciences

Engagement ~ Leadership ~ Globalization ~ Innovation

March 1, 2011

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## CEAS News

### E-Week Scholarship Award Winners

**February 22, 2011 E-Week Dinner and Scholarship Awards**  
There were seven CEAS students who received scholarship awards. Of these, four received awards from Eaton: Mitchell Zajac, Rochelle Gillette, Jacob Hill, and Adeel Khan. One award from ASME: Casy Kick. One award from SPE: Cody Boyne. And one award from IEEE: Fariba Nasiri, (not pictured).



**Congratulations to the Scholarship Award Recipients.**  
**Left to right:** Jacob Hill, Cody Boyne, Mitchell Zajac, Adeel Khan, Casy Kick, and Rochelle Gillette.

### Russian Scientists Visit Ari-Gur in New Zealand

In December, Dr. Pnina Ari-Gur, professor of Mechanical & Aeronautical Engineering, on sabbatical at the University of Auckland in New Zealand, welcomed her research collaborators from the Russian Academy of Sciences in Moscow. The scientists were Professor Vladimir Shavrov and Dr. Victor Koledov, scientists at the Institute of Radioengineering and Electronics, the Russian Academy of Sciences. The visitors and Ari-Gur presented a seminar together on Dental Applications of Shape Memory Alloys. They also had meetings with Ari-Gur and her colleagues at Auckland,

and combined scientific discussions with the beautiful views of New Zealand.



**Above:** After the seminar: (L-R) Niel Broom, Rainer Grupp, Jimmy Bester, Victor Koledov, Pnina Ari-Gur, Vladimir Shavrov, George Ferguson, Wei Gao, and Peng Cao.



**Above:** After the seminar: (L-R) Niel Broom (HOD, Auckland), Rainer Grupp, Jimmy Bester, Victor Koledov, Pnina Ari-Gur, Vladimir Shavrov, George Ferguson, Wei Gao (Ari-Gur's host at Auckland), and Peng Cao.

### Network for Earthquake Engineering Simulation Research Funded Through National Science Foundation Grant

Dr. Xiaoyun Shao is an assistant professor of the Department of Civil and Construction Engineering and the founder of the Laboratory of Earthquake and Structural Simulation (LESS) at WMU. The major equipment in the LESS include a uni-axial seismic simulator (commonly called shake table), two 3kips hydraulic actuators with the supporting hydraulic power supply and advanced real time controller. The shake table has a dimension of 3 ft. x 3 ft. and can subject a specimen with maximum weight of

500 lbs. to an earthquake time history with a peak acceleration up to 4 g. Structural dynamic properties and its response when attacked by an earthquake will be obtained through such shake table tests. Instrumentation available in the lab consist of accelerometers and linear variable displacement transducer (LVDT) and a set of wireless sensor network. Currently there are four Master students and one undergraduate student working in the laboratory on research projects.

**Below:** Dr. Shao moderating "Nonstructural Performance and Design" session at Quake Summit 2010 NEES & PEER Meeting.



For more information please refer to the LESS webpage at <http://homepages.wmich.edu/~dpcb8848/index.html>

### E-Week Fun - Pie Throwing Contest for Red Cross

**L-R:** Scot Conant, Dean Vizzini, and Karlis Kaugars volunteered to be the targets for the pie throwing event. This is the **before** photo.



**Right:** Here are a few photos after several accurate pie throws. As you can see with the help of students and staff together, it was a success.

