

*PLEASE JOIN US TO CELEBRATE*

**National Engineers Week 2008**

## **E-Week Highlight Banquet**

### **"Animating the Future"**



**Dr. Karen Liu**  
*Featured Speaker*

*a 2007 Young Innovator Under 35  
by MIT's Technology Review  
magazine*



**Thursday, 6:00 p.m.**  
**February 21, 2008**

**Bessie Smith Hall**  
**200 East M.L. King Blvd.**  
**Chattanooga, TN.**

Dr. Karen Liu, assistant professor at Georgia Institute of Technology, speaks about her research and developments in animation. Her research interests are in computer graphics and animation, including physics-based animation, character animation, numerical methods, robotics and computational biomechanics.

Biomechanics researchers had long been analyzing the mechanical factors that affect the way people move. Simulating those factors would yield computer generated (CG) characters that move more naturally. The human body contains hundreds of interacting parts, and it is impractical to measure or even stipulate the values of parameters such as tension and elasticity for every muscle, tendon, and ligament in the body. Working with advisor Zoran Popovic, Liu eventually showed that feeding just a handful of these values into animation software is enough to reproduce a distinctive motion such as a "happy walk" in a range of CG models, from people to penguins.

***Cost: single ticket \$30, corporate table for eight \$210***  
***RSVP requested by Feb. 13, call 423-751-7616***

*Offered by the Chattanooga Engineers Club, local engineering societies and the Chattanooga Technology Council.  
Reservations for this and other E-Week events may also be made using the form on [www.ChattanoogaEngineersClub.org](http://www.ChattanoogaEngineersClub.org).*