

## **Center for Computational Engineering**

The critical role that computation now plays across all engineering disciplines, as well as the industry-based demand for engineers who are literate in computational sciences, has created a clear need for research and educational programs to produce tomorrow's computational engineering leaders. In response to this need, in December 2004, the MIT faculty approved the creation of an integrated multidisciplinary SM program in Computation for Design and Optimization (CDO). In fall 2008, in the School of Engineering (SOE), the Center for Computational Engineering (CCE) was formed to support more broadly computational engineering research and education at MIT. The emphasis of CCE research activities is on the development of new computational methods and on the innovative application of computational techniques to important problems in engineering and science. Fifty-four faculty and researchers from across the School of Engineering are currently affiliated with CCE.

### **Accomplishments**

Through a generous donation by Miltos Kambourides SB '96, SM '97, the Kambourides Fellowship in Computational Engineering was established in fall 2008. Mr. Bradley Bond, a PhD student in the Department of Electrical Engineering and Computer Science, was named the first recipient.

A pan-SOE faculty search in computational engineering concluded successfully with the appointment of Qiqi Wang as assistant professor of aeronautics and astronautics, beginning fall 2009.

### **Goals**

In educational activities, the CDO program will be incorporated into CCE starting fall 2009, while an effort is under way to consider the long-term evolution of graduate degrees in computational engineering.

**Anthony T. Patera**  
**Codirector**  
**Ford Professor of Engineering**  
**Professor of Mechanical Engineering**

**Karen Willcox**  
**Codirector**  
**Associate Professor of Aeronautics and Astronautics**