



2010 Annual Meeting

March 4-6, 2010
Cambridge, MA

The Institute of Biological Engineering

will hold its 14th Annual Meeting at the [Hyatt Regency Cambridge](#) near the campuses of MIT, Harvard and Boston Universities. The program will include keynote and plenary presentations by distinguished scientists investigating the principles that nature uses to construct living things and engineers who are employing these principles for designing systems for multiple application domains that include medical and health, food and agriculture, energy and environment, and bio-information technology.

About IBE

The 21st century presents global challenges in the environment, resources, energy, health, and sustainability. The Institute of Biological Engineering (IBE) supports the community of scientists and engineers that are addressing these problems through biological systems analysis and design. We do this through enhancing and promoting biological engineering in the broadest manner through research, education, and professional development.

IBE invites engineers, scientists, practicing professionals, and entrepreneurs engaged in advancing **Biology-Inspired Engineering** to present papers and posters, participate in discussion forums, display products and services and build professional networks.

Session Topics

- **Meeting the National Academy of Engineering Grand Challenges: The Role of Biological Engineering in**
 - Carbon sequestration
 - Managing the nitrogen cycle
 - Providing clean water
 - Designing better medicines
 - Reverse engineering the brain
- **Synthetic Biology**
- **iGEM Synthetic Biology**
- **Bio-Nanotechnology**
- **Frontiers in Biological Engineering**
- **Foundational Technologies in Synthetic Biology**
- **Engineering Ecology**
- **Quantitative Systems Biology**
- **Biomimetics**
- **Tissue and Cellular Engineering**
- **Bio-MEMS/NEMS**
- **Biological Applications of Microsatellites**
- **Bioimaging and Diagnostics**
- **Biology-Inspired Sensors and Biosensors**
- **Biomolecular Computing**
- **Biofuels**
- **Biological Engineering Design**
- **New Paradigms in BE Education**
- **Bioprocessing & Natural Products**
- **Bioinstrumentation**
- **Complex Systems Research in Biology and Medicine**
- **Connections across Biological Engineering**

Industry Activities

- **Biobusiness Nexus**
- **Networking Luncheon**
- **Job Fair**

Student Activities

Biological Engineering is an emerging engineering discipline and a profession of the future. Today's students are the life line and the future leaders. IBE is particularly inviting to students and its meetings are organized to provide active participation by students in podium and poster presentations. It is also a wonderful forum for students to present research and design projects, participate in award winning competitions and engage with practicing engineers and scientists.

Student competitions and activities include:

- **Bioethics Essay Competition**
 - Winner to be published in our flagship publication, *Journal of Biological Engineering*
- **Undergraduate Student Poster Competition**
- **Graduate Student Poster Competition**
- **Mock Interviews**
- **Student Social Activities**

Abstract Submissions Open

August 1 to December 10, 2009

For additional details, visit the IBE Website
www.ibe.org

Meeting Chair:

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