Institute of Biological Engineering

Vision

The 21st century presents global challenges in the environment, resources, energy, health, and sustainability. The Institute of Biological Engineering 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.

Since its founding in 1995, IBE has served as a catalyst for the development of biological engineering as a discipline, promoted the professional develop-ment of its members, and created opportunities for cross-disciplinary engagement with the aspects of engineering whose science base is biology.

Network

with engineers and scientists to create new knowledge and provide greater understanding of engineering principles founded on the science of biology;

Engage

students and professionals in research and development to promote advances in design that capture features of living systems; and

Inquire

about a full-range of biological engineering topics, research results and new products at IBE meetings.

IBE is a dynamic organization. For the latest information on IBE, visit

www.ibe.org

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ibe

Advancing Biology-Inspired Engineering

At the frontiers of Engineering Sciences and Design in the context of Biology

www.ibe.org

Institute of Biological Engineering

CREATING A NEXUS

The organization is inspired by models of living biological systems that show the strength of soft boundaries and adaptive structures. IBE values the power of networks that "link and connect" participants.

IBE is the catalyst for a new network of "bio"-related science and engineering professionals and their societies to foster unprecedented growth at the frontiers of biology and engineering.

IBE is exploring ways to create a nexus of culture, methodology and competence for the biological engineering profession.

IBE invites professional organizations and individuals from academia, industry, and government agencies to *join the nexus…*

Bringing Engineering to Life and Advancing Biology-Inspired Design

Join IBE

Professionals and students from broad disciplinary backgrounds and interests join IBE. Members find far reaching opportunities for connecting with people who are at the forefront of creating new linkages between biology and engineering, and developing design and educational perspectives for Biology-Inspired engineering.

Members enjoy:

- registration discounts to Institute events
- real-time global networking opportunities with experts
- online educational materials and resources
- job solicitation and recruitment service
- online newsletter

Students receive discounted membership rates.

Associate Membership is available to members of:

- American Ecological Engineering Society
- American Institute of Chemical Engineers Society for Biological Engineering
- American Society of Agricultural and Biological Engineers
- American Society of Mechanical Engineers
- Biomedical Engineering Society
- Engineering in Medicine and Biology
- Society of Biomaterials

IBE is continuing to develop affiliations with "bio" societies. We welcome you!

On-line membership registration is available at **www.ibe.org/membership**

Conferences

IBE meetings provide forums for exchange and synthesis of ideas and knowledge at the frontiers of biology and engineering. Meetings attract international participants with expertise in diverse engineering and science disciplines. Leading researchers present biology-based engineering advances whose potential reach extends beyond medicine, chemicals, environment and agriculture. Emergent from this diversity are common principles that are ubiquitous across all designs and application domains.

IBE meetings address the critical need of building personal and intellectual bonds among those at the interface of biology and engineering who would otherwise remain disconnected due to disciplinary inertia.

Student participation is particularly encouraged. Students receive discounted registration and compete for poster and essay awards.

Some important session topics at recent IBE meetings include:

- Synthetic Biology
- Biological Engineering Education
- Biology-Inspired Engineering Design
- Thermodynamics & Transport in Living Systems
- Bioethics