GRAND CHALLENGES
for Biological Engineering
Institute of Biological Engineering and the Korean Society for Biotechnology and Bioengineering

Memorandum of Understanding

Mark Riley, President IBE
Giobin Lim, President, KSBB
Biological Engineering Leadership Awards

PURPOSE
Encourage, recognize and reward leaders and student leaders in the field of Biological Engineering

Nominations Due November 1, 2010
Bioethics Essay Competition Award Winners
Honorable Mention

Katherine Ip

University of Maryland

“United Voices for a United Approach for Ethics in Synthetic Biology”
Honorable Mention

Mariya Sitnova

University of Maryland

“Integrating Public Concern in Synthetic Biology”
Third Place

Miranda Joelle Hagen

University of Maryland

“Addressing Public Concerns about Synthetic Biology”
Second Place

Kirsten Sims

Utah State University

“Development of a Cohesive Strategy to Effectively Incorporate the Concerns of the Public into the Development of Synthetic Biology”
First Place

Alex David Hatch

Utah State University

“Four Suggestions for Addressing Public Concern Regarding Synthetic Biology”
Poster Competition
Award Winners
Undergraduate
Undergraduate - Third Place

Kyle Struzyk

Determination of a Cell’s Metastatic Potential Using Variable Flow Rates in a Microfluidic Biochip

Texas Tech University
Undergraduate - Second Place

Lindsey Westbrook, Claire Daigre, Christi Wolgemuth

Genetically Engineered System for Lignin Biodegradation

Mississippi State University
Undergraduate - First Place

Abel Cortinas

Microfluidic Separation of Blood Plasma Using Bifurcated Channels

Texas Tech University
Poster Competition
Award Winners
Graduate
Graduate - Third Place

Rameez Chatni

Frequency Domain Fluorescence Lifetime Micro-well Platform for Respirometry Measurements

Purdue University
Graduate - Second Place

Courtney LeBlon

Engineering Compliant Polymeric Substrata for Myocardial Contractility

Lehigh University
Graduate - First Place

Jonathan Claussen

Electrochemical Biosensors of Templated Nanoelectrode Arrays

Purdue University
IBE Regional Meeting Winners

MISSISSIPPI REGIONAL MEETING - GRADUATE
Tissue Engineering Cartilage for Osteochondral Defects
Scott Tran, Steve Elder
Mississippi State University

MISSISSIPPI REGIONAL MEETING - UNDERGRADUATE
Genetically Engineered System for Lignin Biodegradation
Claire Daigre, Lindsey Westbrook, Christi Wolgemuth
Mississippi State University
IBE Regional Meeting Winners

NORTHEAST REGIONAL MEETING
A Novel Mathematical Model for Mesenchymal Stem Cell Motility in Three-Dimensional Synthetic Scaffolds
Joshua David Cohen, Douglas Lauffenburger
Massachusetts Institute of Technology

ARIZONA REGIONAL MEETING
Nutrient Deficiency Detection with Machine Vision in Controlled Environments
David Story, PhD
University of Arizona
Journal of Biological Engineering

Editor-in-Chief: Mark Eiteman, University of Georgia
Recognition of JBE Editors

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Editor-in-Chief
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Zhilian Yue (Singapore)
Frederic Zenhausern (United States)
Guigen Zhang (United States)
Solving a Hamiltonian Path Problem with a bacterial computer


Presidential Citations

Christina Smolke

Thank you for your leadership and determination as President 2008 and 2009
Presidential Citations

Roy Young
Jerry Gilbert
Praveen Kolar
Czarena Crofcheck
Brahm Verma
Jeong-Yeol Yoon

Sabrina Jedlicka
Mark Eiteman
Mike Walter
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Jeffrey Catchmark
IBE Brahm and Sudha Verma Lifetime Visionary Award was established to simultaneously honor Dr. Brahm Verma for his contribution to the establishment and growth of IBE and to the field of Biological Engineering; and to recognize the "most visionary work in biologically-inspired engineering frontiers".

The award is intended to recognize those who make significant advances in the practice, articulation, and/or vision of Biological Engineering.
We recognize and celebrate Dr. William Fox’s early advocacy and leadership in the emerging discipline of biological engineering.

As a researcher, Dr. Fox is the author of journal publications and papers on the subject of tillage mechanics and energy systems and was one of the first in the field of agricultural engineering to see the value of bio-based energy.

As the head of a department of agricultural engineering, he put in place the first curriculum of biological engineering in 1967 at Mississippi State University, laying the foundation for all subsequent curricula in the field of biological engineering.
Thank you

Save the Date – March 3-5, 2011
Loews Atlanta
Atlanta, GA