

FOSBE 2005

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University of California Santa Barbara Campus
August 7 - 10, 2005



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Foundations of Systems Biology in Engineering — Overview

The field of systems biology has emerged in the last several years at the interface between genomics and engineering & quantitative sciences—with an overall emphasis of analyzing complexity in biological systems using integrative, systems approaches. The problems addressed in systems biology range from reverse engineering regulatory mechanisms to expand the boundaries of scientific knowledge to forward engineering problems involving drug targeting and the development of biomedical therapies.

FOSBE 2005 (Foundations of Systems Biology in Engineering) is the first in a series of a conferences offered by the CACHE organization to address the emerging challenges in the field of Systems Biology. The conference is unique in that it addresses not only current research problems, but also the curricular developments and industrial needs and challenges in this important intersection of biology and engineering.

FOSBE 2005 will bring together researchers from biochemical engineering, systems engineering, complex systems research, computational biologists, computer science, and experimental biologists. Furthermore, the audience will include academic researchers, experts from industry (including pharmaceutical, biotech, and biomedical products), government laboratories (DOE, and Department of Defense), and federal funding agencies—to discuss the advances, challenges, and emerging opportunities in systems biology.

FOSBE 2005 will offer a keynote presentation, 5 technical sessions and one panel discussion over the course of three days. Breaks and hospitality suites will offer time for informal discussions, demonstrations, and networking. The technical sessions will feature 3 plenary speakers, while the contributed paper session will comprise brief oral presentations and poster presentations.