

# BEACON Newsletter

Biomedical Engineering Alliance for Connecticut\*

June 18, 1999

## A Report to Industry

**During the past six months, BEACON activities have continued to emphasize industrial liaison and collaborative research. This newsletter highlights a few of these activities.**

### **BEACON establishes internship opportunities for graduate students with UTRC**

Through the efforts of Dr. John Enderle, Associate Director and Ms. Laurie Macfarlane, Program Coordinator, arrangements that address intellectual property rights issues have been made with the United Technology Research Center to permit graduate biomedical engineering students to serve as industrial interns at UTRC. This agreement can serve as an excellent model for other companies interested in having graduate, i.e. Master's and Ph.D. degree candidates, BME students as interns working on projects at their industrial site.

### **BEACON in conjunction with ACCE hosts the Advanced Clinical Engineering Workshop**

Taking advantage of the AAMI (The Association for the Advancement of Medical Instrumentation) meeting in Boston June 5-9, BEACON with the American College of Clinical Engineering (ACCE) presented an Advanced Clinical Engineering Workshop June 6-10. The evening prior to this grand event was reserved for the reunion of graduates from the BEACON Clinical Engineering Internship program. That night approximately 40 attendees celebrated and renewed friendships. At the Workshop, 16 attendees from all over the world

participated. Thirteen speakers addressed the latest thinking on the management of medical technology. As a result of this interaction, information was transferred, contacts established, and future meetings planned - the next being at the International BME Conference - World Congress 2000 to be held in Chicago July 23-28, 2000.

### **BEACON Plans Drug Symposium**

As a result of visits to pharmaceutical and biotechnology companies in the state of Connecticut, it became apparent that there is a need for a curriculum that integrates drug discovery (usually taught in schools of pharmacy) and drug delivery (usually taught in engineering schools). To facilitate this process, a BEACON task force was established. As a result, a course entitled *Introduction to Drug Discovery*® was offered in Spring 1999 at The University of Connecticut Health Center and plans were developed for a *Drug Discovery, Design and Delivery Symposium*®. In the process, BEACON was invited by Connecticut Innovations Inc. (CII) to have this Symposium be the technical program immediately preceding the Governor's High Technology dinner on September 14, 1999 at the Aqua Turf Club. The Symposium, see program is attached to this newsletter, will be from 8:30 AM- 4:30 PM at the Aqua Turf Club in Plantsville, CT. Please mark your calendar and make arrangements for yourself, your

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Trinity College, The University of Connecticut at Storrs, The University of Connecticut Health Center, The University of Hartford Hartford Hospital, The Connecticut Children's Medical Center, John Dempsey Hospital, The Yale-New Haven Hospital, Bridgeport Hospital/NovMed and the Baystate Health System

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colleagues, students, etc. to attend. It is to be noted that

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**BEACON submits Collaborative Research Grants**

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During the months of February and March, BEACON submitted two collaborative research proposals. The first to the Donaghue Foundation to support activities of BEACON faculty (R. Peattie and S. Goodman) engaged in Cardiovascular Bioengineering projects. The second was submitted to CII as a Yankee Ingenuity Award involving the encapsulation of islet cells for the treatment of diabetes. This project would support the research efforts of R. Fisher and R. Peattie working with engineers and scientists from Alexion Pharmaceuticals, Inc. Final decisions regarding these proposals will be available by August 1, 1999. They serve as a model of the type of collaborative research efforts BEACON would like to facilitate.

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**BEACON COURSE OFFERINGS**

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**1999**

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Educational offerings through BEACON continue to expand, thereby, increasing the availability of BME curriculum to working professionals. See below.

**Fall 1999**

Bioinstrumentation (undergraduate)  
T & Th 2:55-4:10PM University of Hartford  
Physiological Control Systems (undergraduate)  
T & Th 3:30-5:00PM UConn, Storrs  
Electrophysiology (undergraduate)  
T & Th 4:00-5:15PM Trinity College  
Cellular Systems Modeling  
M 6:00-9:00PM UConn Health Center  
Design of Medical Imaging Transducers

each corporate sponsor will receive two dinner invitations free of charge.

R 6:00-9:00PM Trinity College  
Human Biomechanics  
W 6:00-9:00PM Trinity College  
Introduction to Biomaterials and Tissue Engineering  
M 6:00-9:00 PM UConn Health Center  
Introduction to Biomedical Imaging  
W 6:00-9:00 Trinity College  
Physiological Systems I  
T 6:00-9:00PM Trinity College

**Spring 2000**

Biofluid Mechanics (undergraduate)  
MWF 9:30-10:20 AM University of Hartford  
Biosensors  
T 6:00-9:00PM Trinity College  
Introduction to Biomedical Engineering  
W 6:00-9:00 PM UConn, Storrs  
Advanced Ultrasonic Imaging Techniques  
Th 6:00-9:00PM Trinity College  
Physiological Modeling  
M 6:00-9:00PM Trinity College  
Physiological Systems II  
T 6:00-9:00PM Trinity College  
Biofluid Mechanics  
W 6:00-9:00PM Trinity College  
Clinical Instrumentations Systems

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**BEACON OFFICES:**

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Th 6:00-9:00PM Trinity College  
Computational Neuroscience  
TBA UConn Health Center

Please contact the BEACON offices if interested in course offerings for Fall 1999 and Spring 2000.

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