**BMES NEWS**

**BMES Virtual Library**

The 2000 and 2001 Annual Fall Meetings are digitally recorded and archived for viewing with those who have Internet access. BMES members can access the Virtual Library for the next twelve months for only $25 (non-members for just $40). These lectures are a great opportunity to learn about what is being done in industry and by members of BMES. To see an example you may go to the following website:


**Interest Groups**

Within the bioengineering department there are some track specific interest groups that meet throughout the semester. To attend these meetings there is no charge or obligation, just interest. For further information on the following groups contact the professors:

- Biomechanics: Dr. Jeff Weiss
- Neuroscience: Dr. Greg Clark
- NeuroProsthetics (nPIG): Dr. Ken Horch
  (look for additions next month)

**Faculty Spotlight**

**Yan-Ting Elizabeth Shiu** is a new faculty member. She received her Ph.D. in Chemical Engineering from Rice University in 1999, and has conducted her postdoctoral studies in the Department of Bioengineering and the Whitaker Institute of Biomedical Engineering at University of California, San Diego. Her research interests are in the fields of cellular and tissue engineering, particularly in problems related to the cardiovascular system. Her research in cellular engineering focuses on the use of multidisciplinary approaches to study the mechanical regulation of biological problems, including new blood vessel formation, vascular wall wound repair, cancer metastasis, and the interactions between circulating blood cells and the vascular wall. Her research interests in tissue engineering focus on the seeding of endothelial cells and smooth muscle cells on vascular grafts to reduce thrombosis and improve the mechanical properties of the engineered blood vessels. In her spare time, she enjoys reading, movies, music, and traveling, and is a baseball fan. ‘I am very excited to join the department in January of 2002.’ She can currently be reached by email at yshiu@ucsd.edu.

**New Heart Technology**

In the past, a patient with a heart condition would need to undergo surgery. In many cases a heart transplant would be needed. Engineers have worked many years in trying to develop an artificial heart. The artificial heart would help eliminate trying to find a match heart for the patient. A simple as it may sound the task is very difficult. In one aspect the artificial heart needs to be small enough to fit into the upper cavity, and be strong enough to pump the blood throughout the body. Just recently a company called Abiomed made this break through. The company has made an artificial heart, which is able to replace the existing heart. On July 3, 2001, a man by the name Bob Tools, of [has the artificial heart implanted in to him](http://library.digiscript.com/stream/index.cfm?eLecture=115925&format=multibit). On Sept. 13 second man had the same operation done. These two individual are doing well. The artificial heart can mimic the actual heart in exercise and rest. With this technology the wait for a heart will be decreased, and live will be saved. To know more about this heart check out: [www.abiomed.com](http://www.abiomed.com)

Written by Daniel Lin (VP of BMES)

**Events for October**

For Seminar schedule see website* calendar.

**Oct 19** – Poster Contest deadline (for more info go to [http://www.bioen.utah.edu/faculty/KWH/teach/BE6060/PosterContest.pdf](http://www.bioen.utah.edu/faculty/KWH/teach/BE6060/PosterContest.pdf)) – money prizes

**Nov 1** – BMES Semester Activity Ideas Due
  (e-mail: bmesuofu@yahoo.com)

**Nov 2–3** – NEUROSCIENCE MINI-SYMPOSIUM

  **Topics:** Neurobiology of Disease

  **Student Cost:** $5.00

  **Location:** Snowbird Ski & Summer Resort

  [more info:Tracy Marble@tracy.marble@hsc.utah.edu](mailto:tracy.marble@hsc.utah.edu)

**Nov 5** – nPIG meeting (e-mail Ken Horch)

**Nov 10** – College of Engineering Open House

  **focus:** Introduce High School Students to Engineering

  **Booth:** Volunteers needed to man booth

For information about BMES and for applications for membership refer to our website at: [http://www.bioen.utah.edu/bmes](http://www.bioen.utah.edu/bmes)