

# FRONTIERS OF ENGINEERING & COMPUTING IN HEALTH CARE

## A Conference at the Center

The Fifth Annual IEEE Engineering in Medicine and Biology Society (EMBS) Conference will be held at the Hyatt-Regency Hotel in Columbus, Ohio, on September 10-12, 1983. This conference, **Frontiers of Engineering and Computing in Health Care**, provides tutorials, technical paper sessions, workshops, and short courses to fulfill the professional needs of EMBS members. There exists a diversity of sessions and workshops within the program to serve members in all phases of the profession: research, industrial development, education, design, evaluation, and management of clinical devices and systems. Special emphasis is given to biomedical computer systems and applications in COMPMED (Computers in Medicine) sessions. The EMBS Program Committee has worked hard to make our fifth annual conference a rewarding experience for all our members, and they deserve our thanks for a job well done.

### Conference Overview and Scope

The 1983 conference is considerably larger than it was in 1982, with many invited presentations. It features 33 technical/professional sessions, nine workshops and tutorials, and three short courses, all chaired by individuals having demonstrated expertise in the field of biomedical engineering. As many as eight parallel sessions will be going on at a given time; an overview of the sessions and workshops is given on the following pages.

Again this year, the program will feature a plenary session on Sunday with the annual EMBS business meeting, awards presentations, and keynote address on the artificial cochlea by Robert White, Ph.D., of Stanford University. A wine and cheese reception follows this plenary session; all are urged to come and renew old friendships and to expand their circle of professional acquaintances. Monday's program includes some joint sessions with the ACEMB; also the ACEMB Exhibits will be open to EMBS Conference attendees.

### A Biomedical Engineers Week

The week of September 10-14, 1983 includes TWO major conferences: our EMBS **Frontiers** conference on September 10-12 and the 36th Annual Conference for Engineering in Medicine and Biology (ACEMB) Conference on September 12-14, sponsored by the Alliance for Engineering in Medicine and Biology. These are two separate, but cooperating, conferences each requiring a separate registration. Reduced fees are available for those who wish to attend both conferences, and EMBS members are encouraged to take advantage of this opportunity. Taken together, these conferences provide a unique opportunity for exposure to a comprehensive view of the entire biomedical engineering profession.

### Publications

Full papers prepared for the Fifth Annual EMBS Conference are published in the **Conference Proceedings** along with descriptions of workshops and tutorials. The **Proceedings** also includes general conference information and author/keyword indices. **Proceedings** is distributed at the conference registration desk.

Abstracts of papers to be presented are published separately in the August 1983 issue of the **IEEE Transactions on Biomedical Engineering**.

### The Conference Hotel

All official functions are held at the Hyatt-Regency Hotel at Ohio Center, 350 North High Street in Columbus. Reservations will be necessary; a form is provided for your convenience in this issue. Direct limousine service is available from the airport — Port Columbus. There are several fine restaurants in Columbus, many within walking distance of the hotel (in addition to those within the hotel complex).

### Registration

The registration desk will be staffed from 7:30 a.m. to 6:00 p.m. on September 10-11, from 6:00 to 9:00 p.m. on September 9, and from 7:30 a.m. to 12:00 p.m. on September 12. Badges are required for all functions. Technical, workshop, and open tutorial sessions as well as the general business meeting, the keynote address, and the wine and cheese reception are all covered by a single registration fee. The special short courses on Saturday require payment of a nominal course fee as noted on the registration form; advance registration for these courses is recommended. All participants must pay registration fees including session chairpersons and invited speakers. A form is provided for preregistration at reduced fees. One set of **Conference Proceedings** and a reception ticket is included with regular three-day registrations. Additional sets of **Proceedings** and reception tickets will be available at the registration desk. Full-time students enrolled in biomedical engineering-related degree programs, with proper identification (a current student photo ID and/or a letter from their departmental chairperson), may register at a reduced rate.

For additional information, contact:

**Glen C. Gerhard, Ph.D., Program Chairman**  
**Frontiers of Engineering and Computing in Health Care**  
**Dept. of Electrical and Computer Engineering**  
**Building No. 20**  
**University of Arizona**  
**Tucson, AZ 85721**  
**(602) 621-5986/2435**