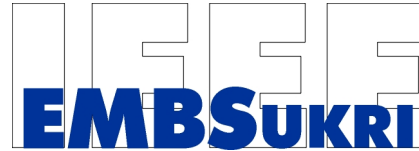




THE INSTITUTE OF  
ELECTRICAL AND ELECTRONICS  
ENGINEERS



**UNITED KINGDOM AND REPUBLIC OF IRELAND SECTION  
ENGINEERING IN MEDICINE AND BIOLOGY CHAPTER**

<http://ewh.ieee.org/r8/ukri/embs/>

**Chapter Report**

**8<sup>th</sup> February 2004**

**Officers of the Chapter**

*Chairman*

Dr. Christopher J. James  
ISVR  
University of Southampton, Southampton SO17 1BJ  
(email) [c.j.james@ieee.org](mailto:c.j.james@ieee.org) (tel) 02380 593043 (fax) 0 2380 593190

*Secretary*

Roland J. Saam  
(email) [r.j.saam@ieee.org](mailto:r.j.saam@ieee.org) (tel) 020 7373 5498

*Past Chair*

Dr. G.Z. Yang, Imperial College

*Region 8 Representative*

Dr. Raouf Naguib, Coventry University

*Other Officers*

Dr. Anita Boardman, University of Leicester

**Special Events and Activities**

- The sponsored/co-sponsored events for 2003 included:
  - **21-23 July 2003: 5th International Conference on Neural Networks and Expert Systems in Medicine and Healthcare and First International Conference on Computational Intelligence in Medicine and Healthcare**, NNESMED/CIMED 2003 held in Sheffield. The chapter sponsored the prizes for best papers in conference through financial support of the section (£200).
  - **14-16 July 2003: PGBIOMED03: Postgraduate Conference on Biomedical Engineering and Medical Physics**, Aston University, Birmingham, UK: Jointly organised by the chapter and the IEEE EMB Student Society - UK&RI, this second conference resulted in increased attendance over last year - including some delegates from within the EU. Presentations were given over 2 days and financial support (of £200) was matched by support from industry and IEEE EMBS in Piscataway. The chapter will continue to support this yearly event and preparations for PGBIOMED'04 are under way.
  - **16 May 2003: Assessment of the Active Cardiovascular System**, Co-sponsored with the Institute of Physics and Engineering in Medicine, this one day meeting brought together disparate groups of Scientists, Engineers, Physiologists and Clinicians with an interest in dynamic cardiovascular behaviour and its measurement, held in York.
  - **24-26 April 2003: The 4th Annual IEEE EMBS Special Topic Conference on Information Technology Applications in Biomedicine** - ITAB 2003 held in Birmingham.
  
- The sponsored/co-sponsored events for 2004 so-far include:
  - **4 February 2004: Appropriate Medical Technology for Developing Countries, IEE Savoy Place, London**. The third in this series, this seminar will address key needs and problems and take up the challenge of identifying future strategies and solutions. This event will provide an excellent opportunity for sharing experiences and knowledge and will enable you to network face to face with key people.
  - **10 February 2004: Signal Processing Applications in Clinical Neurophysiology, National Railway Museum, York**; co-sponsored by the IPEM Physiological Measurement Special Interest Group.
  - **6-7 April 2004: International Workshop on Wearable and Implantable Body Sensor Networks, Imperial College London, UK**. (Technically co-sponsored). The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices for healthcare and the use of wearable/wireless devices for clinical applications. One key development in this area is implantable in vivo monitoring and intervention devices. This event will provide an exciting insight into the state-of-the art of the field. The chapter will sponsor a prize for best student paper through financial support of the section (£100).
  - **5-8 September, 2004: 2nd International Conference on Medical Signal and Information Processing, MEDSIP2004, Malta G.C.**; (Co-organised by the EMBS Chapter). Signal and information processing technology is at the core of many medical systems today, and as such, it plays a crucial role in modern healthcare. The primary aim of the conference is to promote improved healthcare by the further development of advanced signal and information processing methods for biomedicine and their integration with other emerging technologies. The chapter aims to sponsor the event through financial support of the section (£300).
  
- The chapter has negotiated special (reduced) member rates for all events we host/co-sponsor and sets up a stand (free of charge) promoting IEEE / EMB Society membership in all events.

- A number of administrative and conference committee meetings took part throughout 2003.

## **Student Activities**

The close relationship between the chapter and the student society will continue and the chapter will continue to work with the student society on the yearly PG Confernece - PGBIOMED'04. We aim to keep the special relationship that exists with the EMB Student Society and to help in any way possible. In PGBIOMED'03, the chapter sponsored 1 of the prizes; we continue to look into the possibility of setting up a nationwide award for "best paper" for PG students in BME.

## **Other Chapter Business & Future Events**

- The chapter website is continuing to be updated. EMBS members are also kept up to date with UKRI, Region 8 and world-wide EMBS events. The chapter is also promoting senior membership and offering help to anyone of its members interested. We have also started regular email updates to chapter members.
- A further number of sponsored and co-sponsored events are in the planning stage for 2004.
- We wish to concentrate on a series of regional half day talks and seminars, which involve members working in the clinical and industrial, as well as the academic field. To this end we have appealed to the members to suggest topics of interest that we can concentrate on throughout this year and beyond.
- The chapter is still a part of the discussions we have initiated between the IEEE, the IEE and IPEM on ways to further increase the collaboration across Institutes in the UKRI for the benefit of Biomedical Engineers and Medical Physicists alike. We are hoping to host a joint event in the first half of 2004 - members will be kept informed as soon as an event is formulated.



Dr Christopher J. James  
***Chapter Chairman***

8<sup>th</sup> February 2004