

IFMBE Merit Awards Committee (MAC)

Report to the IFMBE Administrative Council August 2003

1. Members

Chairman	Joachim Nagel, Germany, Member of the IUPESM Awards Committee
Co-Chairmen	Marc Nyssen, Belgium, Chair of Otto Schmitt Awards Committee
	Willis J. Tompkins, USA, Chair of the Zworykin Awards Committee
	Makoto Kikuchi, Japan
	Jos Spaan, The Netherlands
	Zibin Yang, China, Member of the IUPESM Awards Committee

2. Call for Nominations

A Call for Nominations for the IFMBE and IUPESM awards to be conferred at the Sydney 2003 World Congress with a deadline of May 31, 2002 has been published repeatedly since December, 2001:

- IFMBE homepage (since December, 2001),
- IFMBE News (November 2001 and March 2002 issues),
- IFMBE Journal (requested in December 2001, but never published),
- Repeated messages to all member societies with the request to inform their members about the Call for Nominations, with only a small number of societies actually following the request.

Only a very few nominations were submitted the deadline May 31, 2002, indicating that the *Call* did not reach the BME community. Therefore, the IFMBE Merit Awards Committee decided to extend the deadline until August 31, 2002, and to start another campaign to advertise the opportunity for nominations. In addition to the above mentioned channels many individuals were informed about the Call for Nominations.

Finally, 7 nominations were submitted for the IUPESM Merit Awards, 4 nominations for the Otto Schmitt Award, and 4 nominations for the Vladimir K. Zworykin Award.

3. Awardees

The awards committees came up with the following results:

IUPESM Merit Award (biomedical engineer): **Robert M. Nerem**

Otto Schmitt Award: **Basil S. Proimos**

Vladimir K. Zworykin Award: **P. Åke Öberg**

IUPESM Award of Merit



presented to

Robert M. Nerem

for

Outstanding Achievements in Physical and Engineering
Sciences in Medicine

International Union for Physical and Engineering Sciences in Medicine

August 2003

Dr. Nerem joined Georgia Tech in 1987 as the Parker H. Petit Distinguished Chair for Engineering in Medicine. He currently serves as the Director of the Parker H. Petit Institute for Bioengineering and Bioscience. In addition he serves as the Director of the Georgia Tech/Emory Center (GTEC) for the Engineering of Living Tissues, an NSF-funded Engineering Research Center, and he is a part-time Senior Advisor for Bioengineering in the new National Institute for Biomedical Imaging and Bioengineering at the National Institutes of Health. He received his Ph.D. in 1964 from Ohio State University and joined the faculty there in the Department of Aeronautical and Astronautical Engineering, being promoted to Professor in 1972 and serving from 1975-1979 as Associate Dean for Research in the Graduate School. From 1979 to 1986 he was Professor and Chairman of the Department of Mechanical Engineering at the University of Houston. Professor Nerem is the author of more than 125 refereed journal articles. He is a past President of the International Union for Physical and Engineering Sciences in Medicine (1991-1994) and also a past President of the International Federation for Medical and Biological Engineering (1988-91). In addition, he is a past Chairman of the U.S. National Committee on Biomechanics (1988-91). He is a Fellow and founding President of the American Institute of Medical and Biological Engineering (1992-1994), and he currently is President of the Tissue Engineering Society International. He also is Fellow, American Association for the Advancement of Science; Fellow, Council of Arteriosclerosis, American Heart Association; Fellow, American Physical Society; and Fellow, American Society of Mechanical Engineers (ASME). He was Technical Editor of the ASME Journal of Biomechanical Engineering (1988-1997). In 1989 he received the H.R. Lissner Award from ASME, and in 1994 was the ASME Robert Thurston Lecturer. He also was the Konrad Witzig Memorial Lecturer in 1986 for the Cardiovascular System Dynamics Society and the ALZA Distinguished Lecturer in 1991 for the Biomedical Engineering Society. In 1988 Professor Nerem was elected to the National Academy of Engineering (NAE), and he currently serves on the NAE Council. In 1992 he was elected to the Institute of Medicine of the National Academy of Sciences and in 1998 a Fellow of the American Academy of Arts and Sciences. In March 1990 Professor Nerem was presented with an honorary doctorate from the University of Paris, and in 1994 he was elected a Foreign Member of the Polish Academy of Sciences. In 1998 he was made an Honorary Fellow of the Institution of Mechanical Engineers in the United Kingdom, and in 2002 received the Pierre Galletti Award from AIMBE. Professor Nerem serves on the scientific advisory board of AtheroGenics, Inc. (Alpharetta, GA). Research interests are in bioengineering and include atherosclerosis, biomechanics, cardiovascular devices, cellular engineering, vascular biology, and tissue engineering.



Robert M. Nerem, Ph.D., Professor and Director, Parker H. Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, 315 Ferst Drive, N.W., Atlanta, Georgia 30332-0363, U.S.A.



Otto Schmitt Award

presented to

Basil S. Proimos

for

Exceptional Contributions to the Advancement of
the Field of Medical and Biological Engineering

International Federation for Medical and Biological Engineering

August 2003

Prof. Proimos Prof. Proimos received a degree of Mechanical and Electrical Engineering from the Technical University of Athens, Greece, in 1953, the Master of Science degree at the Massachusetts Institute of Technology (MIT), USA, in 1958 and his Ph.D. in Electrical Engineering from the Technical University of Athens in 1965. From 1959 to 1977 he served as Director of the Medical Physics Department at the Greek Anticancer Institute in Athens, Greece, and in 1977 he became Professor of Medicine and Director of the Medical Physics Department at the University of Patras, Greece. Since 1997 he is Emeritus Professor of Medicine at the University of Patras.



Prof. Proimos's research interests were mainly focused on the physics of radiotherapy and the development of conformal radiotherapy techniques using protection of vital organs by absorbers rotating synchronously with the patient (1957-1960) and by gravity oriented devices (1960-2002). From 1994 to 1997 he was coordinator of a "concerted action" of BIOMED I called DYNARAD (DYNAMIC RADiotherapy) involving 30 radiotherapy centers within the European Union. Prof. Proimos has published numerous articles on Physics of Radiotherapy in international refereed journals, seven technical and scientific books and he holds two patents for an original radiotherapy unit.

For many years Prof. Proimos was the driving force of European programs promoting education in Medical Physics and Biomedical Engineering not only by teaching engineering and medical students at his university, but as an organizer, coordinator and teacher of a European course on these subjects, taught in English. This program has been offered at the University of Patras for 15 years now and about 30 teachers and 30 new students from European universities participate annually.

In addition, Prof. Proimos was the coordinator of a "Thematic Network" in the SOCRATES Program of the European Union concerning Training and Education for Medical Physics and Engineering Reform in Europe (TEMPERE) involving 38 universities and 10 Scientific/Professional Organizations. He also was the coordinator of a project for Curriculum Development of an Advanced Course (CDA) in Medical Physics and Biomedical Engineering in the framework of SOCRATES involving 30 European universities.

In 1975 Prof. Proimos received the Prize of the "Empiricos Foundation" in Athens and in 1991 the ERASMUS Prize in Brussels, Belgium.

Basil S. Proimos, Ph.D., Emeritus Professor of Medicine, University of Patras, Department of Medical Physics, 265 00 Patras, Greece.



Vladimir K. Zworykin

Award

presented to

P. Åke Öberg

for

**Outstanding Research Contributions
in the Field of Medical and Biological Engineering**

International Federation for Medical and Biological Engineering

August 2003

Prof. Öberg received his M.Sc.E.E. degree in Electronics/Electro-technology at Chalmers Institute of Technology, Göteborg, Sweden, in 1964, and the Dr. of Technology at Uppsala University in 1971. From 1963 to 1972 he was a research associate and Associate Professor at the Department of Physiology and Medical Biophysics of the Uppsala University. In 1972 he joined the Linköping University as a Full Professor of Biomedical Engineering, Head of the Department of Biomedical Engineering (1972-2002) and Director of the Department of Clinical Engineering at the University Hospital (1972-2000).

Prof. Öberg's research interests include biomedical instrumentation, transducers, physiological measurements, biooptics and clinical engineering. He has published more than 450 papers in international peer reviewed journals and at conferences, he holds 30 Swedish and international patents and has co-edited and co-authored 4 books on bioengineering topics. He has served a member of the Editorial Board of several scientific journals, was Editor of the journal of Cellular Engineering and is currently Deputy Editor of the IFMBE journal "Medical and Biological Engineering and Computing". Prof. Öberg is the found-



ing chairman (1979-1983) of the Clinical Engineering Division of the IFMBE, a founding member and chairman (1978-1980 and 1996-1998) of the Swedish Society for Medical Engineering and Medical Physics and a founding member and chairman of the International Academy of Bio medical Engineering. He is a fellow of the Royal Swedish Academy for Engineering Sciences (1980), the Royal Swedish Academy of Sciences (1987), a honorary member of the Finnish Society for Medical Engineering and Medical Physics (1988), a honorary fellow of the Hungarian Academy of Engineering Sciences (1993) and an Honorary Life Member of the IFMBE (2000). He currently is a member-at-large of the IEEE/EMBS Administrative Council.

Prof. Öberg has been the recipient of several prestigious scientific prizes and awards. In 1977 he received the Erna Ebeling Prize of the Swedish Society of Medical Science "for scientific contributions within physiology and biomedical engineering", and in 1981 he was awarded the Fernström Prize of the University of Lund (Sweden) "for outstanding scientific contributions in the field of biomedical engineering". 1982-1983 he taught at the University of Washington in Seattle on a Walker-Ames lectureship award.

Åke P. Öberg, Ph.D, Prof. of Biomedical Engineering, Department of Biomedical Engineering, Linköping University, University Hospital, Linköping S-581085, Sweden.