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INTERNATIONAL FEDERATION FOR MEDICAL AND BIOLOGICAL ENGINEERING

Affiliated with the International Union for Physical and Engineering Sciences in Medicine

INTERNATIONAL ACADEMY FOR MEDICAL AND BIOLOGICAL ENGINEERING

Governing Council

Chair:

Åke Öberg, Sweden

Chair Elect:

Guenther Rau, Germany

Secretary / Treasurer:

Niilo Saranummi, Finland

Members-at-Large:

Fumihiko Kajiya, Japan

Hiroshi Kanai, Japan

Robert Nerem, USA

Max Valentinuzzi, Argentina

Peter Wells, UK

Address of IAMBE:

Professor Niilo Saranummi
VTT Information Technology
PO Box 1206
33101 Tampere, Finland
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Report on the Activities of the International Academy for Medical and Biological Engineering at the Year 2003 World Congress on Medical Physics and Biomedical Engineering

1 Introduction

The International Academy for Medical and Biological Engineering (IAMBE) was established with the induction of the initial group of Founding Fellows at the Nice World Congress in 1997. In the Chicago World Congress IAMBE organized several significant activities. These activities included a workshop on MBE education, business meetings and an induction ceremony for new Fellows.

2 Governance and Membership

The list of Fellows (current to June 30, 2003) together with the elected members of the Governing Council and the Membership Committee for 2000 - 2003 are given in Appendix 1. The Academy comprises 40 Fellows. Eight of these are with Fellow Emeritus status.

Four new Fellows were elected in 2002. In 2003 24 Fellows were elected to the Academy (pending on their acceptance). All these will be inducted in Sydney as part of the World Congress Opening Ceremony. The list of the newly elected Fellows will be made available in Sydney.

3 Activities

The Academy is still in its early years and needs to expand its membership in order to have the human resources to act in accordance with its purpose and philosophy (Article II of the Bylaws below):

The Academy is a part of IFMBE, responsible to the IFMBE General Assembly and its Administrative Council, and operates under the auspices of the IFMBE Constitution and Bylaws. The Academy is established by IFMBE for the following purposes.

1. The Academy is to conduct programs, which will serve to encourage young people entering the field and their development in the early stages of their career.
2. The Academy, upon request of the IFMBE Administrative Council, also shall serve as a resource for IFMBE and its various units.



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The Academy's activities will be carried out by individuals honored by their election as Fellows as described later in this Article. Thus, there is a third purpose of the Academy.

3. The Academy is to honor individuals who have distinguished themselves in the field of medical and biological engineering.

The philosophy underlying the establishment of the Academy by IFMBE is that those who have distinguished themselves in the field have a special responsibility to help those entering the field.

For Sydney the Academy is involved in four activities:

- ?? It sponsors student prizes for best papers / presentations / posters in the 6th International Conference on Cellular Engineering. The recipients will be selected by the conference organisers with the participation of Robert Nerem.
- ?? The Academy has organized two tutorials to take place inside the conference programs. The speakers are Robert Nerem and Gerhard Artmann. Their tutorials are intended for the newcomers to the field of cellular and tissue engineering.
- ?? The Academy will induct its new Fellows (classes '02 and '03) as part of the Opening Ceremonies.
- ?? A General Meeting of the Academy is scheduled for Thursday.

4 Meetings

The Fellows present in the Medicon 2001, Pula, Croatia and 2nd EMBEC, Vienna, Austria, 2002 met to discuss the planning of the Sydney activities and the nomination of candidates for Fellows.

Additionally business has been conducted through email and a few newsletters by the Academy Chair, Åke Öberg.

5 Finances

The finances, .i.e. collection of dues has been handled by the Secretary. The dues have been deposited to a US Dollar account in a bank in Finland (Nordea). The expenditure over the 3-year period comprises three items:

- ?? Student Prizes for the 6th International Conference on Cellular Engineering (1000 USD)
- ?? Preparation of the Certificates for the new Fellows (cost not known at this moment)
- ?? Meeting costs in Sydney (cost not known at this moment)

The balance of the account is (June 30, 2003) 5700 USD.



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For the next three year period it is proposed that the IAMBE account is transferred to the same bank that IFMBE uses. The reason for the proposed change is that a US Dollar account in Finland is tax-free only if its balance does not exceed appr. 8000 Euros.

6 Concluding

IAMBE now has reached one of its initial targets with a membership above 50 Fellows. It has organized activities for the Sydney world conference. The meetings in Sydney will be used to discuss new initiatives.

Appendix 1: List of IAMBE Fellows



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Appendix 1: IAMBE Fellows

Governing Council

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Governing Council 2000-2003	
<i>Chair</i>	Åke Öberg; Sweden
<i>Chair-Elect</i>	Guenther Rau, Germany
<i>Secretary</i>	Niilo Saranummi, Finland
<i>Members-at-Large</i>	Fumihiko Kajiya, Japan Hiroshi Kanai, Japan Robert Nerem, USA Max Valentinuzzi, Argentina Peter Wells, UK

Membership Committee 2000-2003	
<i>Chair</i>	Robert Nerem, USA
<i>Members</i>	Shu Chien, USA Fumihiko Kajiya, Japan Peter Niederer, Switzerland Benno Nigg, Canada Robert Plonsey, USA Guenther Rau, Germany Peter Rolfe, UK Niilo Saranummi, Finland Klaus Schindhelm, Australia Tatsuo Togawa, Japan Max Valentinuzzi, Argentina



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IAMBE Fellows

FF stands for Founding Fellows (Nice '97)

FE stands for Fellow Emeritus

'00 stands for Fellow inducted in the year 2000

'02 stands for Fellow inducted in the year 2002

'03 stands for Fellow inducted in the year 2003

Lars Arendt-Nielsen , Denmark	'03
Kazuhiko Atsumi , JAPAN	FF
Marcello Bracale , Italy	'03
P-I. Brånemark, SWEDEN	'00
Colin G. Caro , UNITED KINGDOM	'00
Sergio Cerutti , Italy	'03
Shu Chien , USA	'00
Jean-Louis Coatrieux , France	'02
Richard S.C. Cobbold , CANADA	FF
Paolo Dario , Italy	'03
Ivan Daskalov , Bulgaria	'03
David Delpy , UK	'03
Floyd Dunn , USA	FF
Uwe Faust , GERMANY	FF, FE
Leszek Filipczynski , POLAND	FF, FE
Yuan-Cheng B. Fung , USA	FF, FE
Leslie Alexander Geddes , USA	FF
Hiie Hinrikus , Estonia	'03
Peter Hunter , New Zealand	'03



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Helmut Hutten , Austria	'03
Fumihiko Kajiya , JAPAN	'00
Akira Kamiya , JAPAN	'02
Hiroshi Kanai , JAPAN	FF
Zhenhuang Kang , PEOPLE'S REPUBLIC OF CHINA	FF
Toivo Katila , Finland	'03
Richard Kitney , UK	'03
Peter Kneppo , Slovakia	'03
Daniel Laurent, FRANCE	FF, FE
Jaakko Malmivuo , Finland	'03
Roman Maniewski , Poland	'03
Jean-Pierre Morucci , France	'03
Maciej Nalecz , POLAND	FF, FE
Robert M. Nerem , USA	FF
Peter F. Niederer , SWITZERLAND	'00
Benno M. Nigg , CANADA	'00
P. Åke Öberg , SWEDEN	FF
John P. Paul , UNITED KINGDOM	FF, FE
Antonio Pedotti , ITALY	'00
Robert Plonsey , USA	FF
Léandre G. Pourcelot , FRANCE	'00
Basil Proimos , Greece	'03
Buddy D. Ratner , USA	'00
Guenter Rau , GERMANY	FF
Robert Reneman , The Netherlands	'03



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James B. Reswick , USA	FF, FE
Nándor Richter , HUNGARY	FF
Laura Roa , Spain	'03
Fernand A. Roberge , CANADA	FF
Colin Roberts , UNITED KINGDOM	'02
Peter Rolfe , UNITED KINGDOM	FF
Annelise Rosenfalck , DENMARK	FF
Christian Roux , France	'03
Masao Saito , JAPAN	FF
Niilo Saranummi , FINLAND	'00
Shunsuke Sato , Japan	'03
Klaus Schindhelm , AUSTRALIA	FF
Tatsuo Togawa , JAPAN	FF
Max E. Valentinuzzi , ARGENTINA	FF, FE
Peter N.T. Wells , UNITED KINGDOM	FF
Andrzej Werynski , Poland	'03
Nico Westerhof , The Netherlands	'03
Erich Wintermantel , Germany	'03
Zibin Yang , PEOPLE'S REPUBLIC OF CHINA	'02



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IAMBE Fellows elected in 2002 and '03

Lars Arendt-Nielsen , Denmark	'03
Marcello Bracale , Italy	'03
Sergio Cerutti , Italy	'03
Jean-Louis Coatrieux , France	'02
Paolo Dario , Italy	'03
Ivan Daskalov , Bulgaria	'03
David Delpy , UK	'03
Hiie Hinrikus , Estonia	'03
Peter Hunter , New Zealand	'03
Helmut Hutten , Austria	'03
Akira Kamiya , JAPAN	'02
Toivo Katila , Finland	'03
Richard Kitney , UK	'03
Peter Kneppo , Slovakia	'03
Jaakko Malmivuo , Finland	'03
Roman Maniewski , Poland	'03
Jean-Pierre Morucci , France	'03
Basil Proimos , Greece	'03
Robert Reneman , The Netherlands	'03
Laura Roa , Spain	'03
Colin Roberts , UNITED KINGDOM	'02
Christian Roux , France	'03
Shunsuke Sato , Japan	'03



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Andrzej Werynski , Poland	'03
Nico Westerhof , The Netherlands	'03
Erich Wintermantel , Germany	'03
Zibin Yang , PEOPLE'S REPUBLIC OF CHINA	'02