

Minutes of the IUPESM General Assembly
Room # 301, Navy Pier Convention Center
Thursday, July 27th, Chicago, USA

The voting status of delegates was confirmed by Heikki Terio, Secretary General of IFMBE with green voting authorization slips and by Gary Fullerton, Secretary General of IOMP with pink voting authorization slips.

1. The General Assembly was opened by President Keith Boddy
2. The President asked for a motion to approve the minutes of the last meeting in Nice, France. **Motion:** Jos Spaan moved to accept the minutes with a second from the floor. The minutes were accepted unanimously.
3. Matters arising and not on the agenda were requested by President Boddy. At the request of the Chairman of the Nominations Committee the agenda was adjusted to allow him to participate in a scientific session.
4. The Chairman of the Nominating Committee, Niilo Saranumi, reported on the recommendations of his committee. He explained the procedure for election of officers, which occurs within the IFMBE and IOMP and is automatic within the IUPESM. The Assembly elects the members-at-large from the nominees presented by the nominations process. The slate of officers and nominees for the positions at large were presented.

Medical Physics Council Member at Large (Vote for two only).

Inger-Lena Lamm (Sweden)
Kwan-Hoong Ny (Malasia)
Peter Inia (Holland)
Fridtjof Nuesslin (Germany)

Bioengineering Council Member at Large (Vote for two only).

Dan Adam (Israel)
Takeyoshi Dohi (Japan)
Zibin Yang (China)
Helmut Hutten (Austria)

Motion: The motion to accept the report of the nominations committee was made by Niilo Saranumi and seconded from the floor of the Assembly. The motion was approved unanimously. The election of Council Members at Large was conducted by written ballot and the results presented as follows:

Officers of the Council

| | |
|-------------------|---------------------|
| President | Jean-Pierre Morucci |
| Vice President | Colin Orton |
| Past President | Keith Boddy |
| Secretary General | Gary Fullerton |
| Treasurer | Gary Fullerton |

Ordinary Members of the Council

| | |
|-------------------------|--------------------|
| IFMBE President | Dov Jaron |
| IOMP President | Oskar Chomicki |
| IFMBE Vice-President | Joachim Nagel |
| IOMP Vice-President | Azam Niroomand-Rad |
| IFMBE Secretary-General | Heikki Terio |

Ordinary Members-at-Large

Inger-Lena Lamm (IOMP)
Kwan-Hoong Ny (IOMP)
Takeyoshi Dohi (IFMBE)
Helmut Hutten (IFMBE)

5. Keith Boddy presented a detailed report of activities of the IUPESM over the past three years. The most important of these is the election of IUPESM to full Union membership in the International Council for Science. The details of this report are in the attached (Attachment #1, Report of the President of IUPESM). President Boddy also presented a summary of a Consensus Workshop on the future of IUEPSM. The President requested a consensus motion from the Presidents of both the IOMP (Colin Orton, Oskar Chomicki was absent) and IFMBE (Jean Pierre Morucci) concerning the future of IUPESM. The Presidents and Vice-Presidents moved and seconded the following motion. **Motion:** “That, having been admitted to ICSU as a Full Member, having received reaffirmation of support from IFMBE and IOMP, the IUPESM General Assembly authorizes the Council to take actions necessary to further this new international status.” The purpose of the motion is that the present IUPESM level of cooperation be continued and that IOMP and IFMBE continue the practice of holding combined World Congresses at three year intervals. This motion was **approved unanimously**. As a result of this the following proposal for additions to the bylaws of the IUPESM was presented for approval by the Assembly:

Motion: That the proposed changes to the bylaws of IUPESM be adopted

7.1 The Standing Committees of the IUPESM are:

d) The ICSU Liaison Committee: the duties of the committee are:

- build on established excellent relations with the ICSU Secretariat
- establish and maintain a good working knowledge of existing and proposed programmes within ICSU
- determine principal and secondary interests of other Unions and bodies within ICSU and generate a spirit of collaboration
- identify areas of potential future collaboration, especially global projects
- stimulate and consider programme proposals within IUPESM (IFMBE and IOMP) as candidates for grants either from ICSU itself or other international bodies, such as UNESCO, WHO, European Union, with the support (and stature) of ICSU
- formulate grant proposals and recommend priorities to IUPESM Council
- participate in ICSU Committees and activities
- contribute “populist” articles to ICSU’s journal ‘Science International’ on various aspects of Medical Physics and Biomedical Engineering

- prepare proposals and contributions to be made at the ICSU General Assemblies
The Committee will be chaired by the President and its membership decided by Council according to needs.

e) Education and Training Committee: the duties of the committee are:

-to promote the world-wide availability of educational and training materials and information, using Internet and other methods of publication

-to identify, encourage and co-ordinate activities and specialist conferences of shared interest with the Constituent Organizations, especially to seek sponsorship

-to recommend to Council projects worthy of support

The Committee will be chaired by the Vice-President. Its membership will include the Chairmen of the corresponding committees of the Constituent Organizations and such other members decided by Council.

f) Regional Development Committee: the duties of the committee are:

-to promote the interests of Developing and Emerging Countries, especially with respect to Regional development

-to liaise with the corresponding committees of the Constituent Organizations in identifying projects worthy of support by IUPESM or external sources

-to publish the Bulletin for Developing Countries on behalf of the three Organizations

The Committee will comprise the Chairmen of the corresponding committees of the Constituent Organizations and other members decided by Council.

g) Public and International Relations Committee: the duties of the committee are:

-to identify and implement means of improving public (and governmental) understanding of the benefits and contributions of the physical and engineering Sciences in health care

-to identify and implement means of raising the stature of the physical and engineering sciences through the development of relationships with other international bodies, where appropriate, through the ICSU Liaison Committee

The Chairman and members of the committee will be decided by Council.

Barry Allen from Australia moved to accept the report and with the report the proposed changes in the Bylaws. Jean-Pierre Morucci from France seconded the motion. Assembly discussed various changes and concerns to the proposed changes but were reassured that further refinements of the Bylaws are contemplated and this motion will allow work to proceed. The motion was accepted unanimously.

6. The Chairman of the Congress Coordinating Committee, Gary Fullerton, reported on progress with the 2000, 2003 and 2006 World Congresses for Medical Physics and Biomedical Engineering. The attendance for the Chicago Congress is in excess of 5500 and all indications are for the most profitable meeting in history. Congress Presidents, William Hendee and Willis Tomkins were congratulated for a job well done. The negotiations for the 2003 Congress in Sydney are complete and a contract has been signed. The balloting to determine the host for the 2006 meeting was extremely tight but the winner by a slight margin is the consortium representing Switzerland, Germany and the UK. Colin Orton moved approval of

the report and the motion was seconded by Jean-Pierre Morucci. The motion was passed unanimously.

7. IUPESM Secretary General, Gary Fullerton presented a full report in writing concerning activities of the past three years. The two highlights of his report (see Attachment #2, Secretary General's report) focused on the conversion of the IUPESM Secretariat to almost complete electronic communications. The second highlight was the participation of the Secretariat in the process of supporting the applications for membership in ICSU. The Secretariat communicated electronically with more than 25 Union Members and 76 National Academy of Science members during the process. This method of communication now offers IUPESM as a full Union Member of ICSU the ability of efficiently facilitating the consensus goals of the Union. An as yet un-audited financial report was submitted. This will be audited at the close of the three-year cycle 1998-2000. A budget for 2001 was presented (Attachment #3, Budget 2001). This budget was based on an increase of dues from IOMP and IFMBE from 2500 English Pounds per year to \$10,000 US dollars per year. The intent of this change is to allow IUPESM to begin the process of establishing an IUPESM Secretariat at a site yet to be selected. Presently the Secretariat resides with the Secretary General. The end result of the motion will allow the Secretary General to fund a quarter time secretary to support IUPESM activities including maintenance of the IUPESM home page. The motion to approve the report and with it the budget was proposed by Colin Orton and seconded by Jean Pierre Morruci. The motion was approved unanimously.
8. There was no report from the Developing Countries Committee as the Chairman was not at the meeting.
9. The Chairman of the Awards Committee, Fumihiko Kajiya, reported the election of Professors Keith Boddy and Masao Saito as the year 2000 recipients of the IUPESM Awards of Merit. The recommendations of the Awards Committee were approved by acclamation.
10. President Boddy introduced retiring officers of the IUPESM, Professors Niilo Saranumi and Fumihiko Kajiya, and presented a plaque expressing the gratitude of IUPESM for their distinguished service. President Boddy then introduced the new President of IUPESM, Professor Jean-Pierre Morucci who accepted the gavel of authority. As his first act of office he asked the Assembly to give thanks to the Past-President, Keith Boddy, and they did so by acclamation.
11. President Morucci asked for a motion to close this meeting of the IUPESM General Assembly and the meeting was adjourned.

Gary D. Fullerton,
Secretary General IUPESM

San Antonio, Texas, USA

Attachment #1

INTERNATIONAL UNION FOR PHYSICAL AND ENGINEERING SCIENCES IN MEDICINE

GENERAL ASSEMBLY
CHICAGO, JULY 2000

REPORT OF THE PRESIDENT
PROFESSOR KEITH BODDY

INTRODUCTION

Becoming your President, at the General Assembly in Nice, made an old man very happy. However, the Presidency has been so eventful that it has made a happy man very old!

The Assembly identified two principal issues to be addressed by Officers and Council. The first was to pursue, for possibly the last time, the long established, but hitherto unfulfilled, aim of becoming a Full Member of the International Council for Science (ICSU) rather than the extant Associate Membership. The second was to establish Key Programmes for IUPESM.

Although strenuous efforts have been made throughout the triennium to keep members informed, this report records progress on these and related issues. It also looks to the future.

FULL MEMBERSHIP OF ICSU

An application for FULL membership had been submitted six months before the Nice Assembly and a decision was still awaited. Six months after the Assembly, ICSU decided that continuation of Associate Membership was more appropriate at that time.

Not wishing to accept this decision as final, the President undertook a series of helpful telephone conversations with ICSU's Secretariat. Thereafter, the President and President Elect, Professor Morucci, had a very constructive meeting with the Executive Director of ICSU. Subsequently, the President sent supplementary updated information to ICSU, seeking reconsideration of our application. The Executive Committee of ICSU agreed to consider a new proposal, about 12 months after the Nice Congress.

In January 1999, with the approval and wholehearted support of Council, the President produced and submitted to ICSU a substantive new application as well as extensive supplementary documentation provided by the Secretary General.

Meantime, demonstrating our intention to be an active member, joint participation with ICSU in the World Science Conference was proposed. Your President sent a draft abstract to ICSU. Subsequently, IUPESM was invited to participate in the Conference, which was sponsored by UNESCO and ICSU. Oskar Chomicki and Richter Nandor were our excellent representatives.

In April 1999, the President and President Elect made presentations of our membership proposal to ICSU's Scientific Committee on Membership, Structure and Statutes in Paris. Subsequently, the Executive Committee recommended to the General Assembly of ICSU, to be held about 4 months later, that IUPESM be accorded Full Membership. However, it was necessary to receive Letters of Support from, at least, the requisite number of ICSU Unions in order for the proposal to be put to the General Assembly.

An intensive lobbying of relevant Unions was undertaken by telephone, e-mail and correspondence. Substantially more than the minimum number of Letters of Support was received by ICSU.

An article by the President of IUPESM, entitled "Caring for the Human Machine into the 21st Century" was published in the June issue of Science International (a journal of ICSU). The journal was distributed at the World Science Congress and to other Unions.

On 29 September 1999, at the General Assembly of ICSU where our representatives were Gary Fullerton and Dov Jaron, IUPESM was unanimously admitted as a Full member of ICSU.

KEY PROGRAMMES

In accordance with the Action Plan, adopted by the General Assembly in Nice, Council has formulated and implemented the Key Programmes summarised in Appendix 1. Considerable progress has been made on most of these programmes.

Under the leadership of the Secretary General, an excellent start has been made in producing an on-line Textbook of Medical Physics and an Encyclopaedia of Biomedical Engineering.

The article in Science International and our participation in the World Science Conference were intended to be contributions to our Key Programme on Improving Public Understanding of Science, as well as raising the profile of IUPESM and our professions. Professor Brian Diffey and Professor Alan Murray, who have excellent reputations in Medical Physics and Biomedical Engineering respectively, are drafting a "brochure". It will be well illustrated and describe the contributions of physical and engineering sciences to health care, in terms readily understandable by the general public and politicians. When completed, the "brochure" will be published on the IUPESM web site. It will also be produced as a printed glossy version, which can be mailed directly to Ministers of Health, opinion formers and interested members of the public. With the

approval of Council, the President formulated and submitted a grant proposal to ICSU, seeking a financial contribution towards its production.

Less rapid progress has been made on the remaining Key Programmes, which will be re-vitalised.

The Secretary General introduced innovative “Virtual Council Meetings “ via the Internet, enhancing democracy and collective wisdom. Unfortunately, they necessarily lapsed when other demands on his time had to take precedence. Nevertheless, the concept is commended for the future.

FUTURE OF IUPESM

So much for the last (almost) three years! What about the future, including the potential benefits of becoming a Full member of ICSU?

The future of IUPESM is dependent on the wholehearted support of the membership. The active involvement of many more members is essential for several reasons. First, not only is democracy improved but also a wider range of intellect, perceptions and new ideas should result. There are potentially exciting times and opportunities ahead for an invigorated IUPESM, which will demand greater and broader inputs. If IUPESM is to exploit its new potential, the workload is bound to increase and must be shared more widely. During the present triennium, the demands made of Officers and Council Members, all of whom are already extremely busy, have been close to or at overload. Solutions to this problem, which could seriously hamper progress, will be sought during the World Congress.

New Bylaws will be proposed at the General Assembly, which should provide IUPESM with its own dynamic Committee structure on which to move forward decisively. If approved by the membership, we will need additional enthusiastic and energetic members, young and old to ensure rapid progress. ‘Ask not what IUPESM can do for you but what you can do for IUPESM’.

What are the opportunities for IUPESM?

1. Advancing our Key Programmes

As can be seen below, there is influential approval and even acclaim of those Key Programmes on which we have made progress. The work on our Medical Physics Textbook and Encyclopaedia of Biomedical Engineering needs to be brought to fruition. There is a need to build on our progress on improving Public Understanding of Science and to re-invigorate other Key Programmes. We will have failed at the General Assembly if additional Key Programmes have not been identified and approved.

2. Building on our Full membership of ICSU

Some months ago, the following responses were received from major bodies within ICSU in replies to letters from your President.

i. Committee on Science and Technology in Developing Countries (COSTED)
“I am very happy to note ----that you have established Key Programmes in relation to Developing Countries. On behalf of COSTED, I welcome opportunities of collaboration between our organisations.”

ii. Program for Capacity Building in Science (PCBS)
“I am very impressed with the outline of your programs, which are far ahead of many of the Union Education Commissions. I believe collaboration is essential to progress.”

iii. International Network for the Availability of Scientific Publications (INASP)
“ It would appear from the information that you have provided that IUPESM is very much eligible for partnership --.”

Each of these doors has now been opened and there is a ‘Welcome Mat’ waiting for us. ICSU and other Member Unions have a variety of global programmes needing more detailed exploration. There are some in which we should be able to collaborate to mutual benefit. We should also be able to identify others, as we shall try to do in Working Group meetings in Chicago, for eventual proposal to ICSU.

These are just some of the opportunities now available to IUPESM, which we can exploit for our benefit but, more importantly, for health care world-wide.

SUMMARY

This valedictory report has attempted to summarise the significant progress made in this triennium and the potential for IUPESM’s future.

No progress would have been possible without the excellent support, contributions and sustained efforts of our Officers and Council Members as well as many other members of IUPESM. On your behalf, but especially my own, I would like to pay particular tribute and express our deepest thanks to them.

I could not have chosen a better ‘Dream Team’ than Jean-Pierre Morucci and Colin Orton to take over the reins of Office at the end of my Presidency. They and IUPESM have my very best wishes for the future.

It has been a great honour to have served as your President. I am grateful to you all.

Kindest regards,

Keith Boddy

INTERNATIONAL UNION FOR PHYSICAL AND ENGINEERING SCIENCES IN MEDICINE

GENERAL ASSEMBLY
CHICAGO, JULY 2000

REPORT OF THE SECRETARY-GENERAL
PROFESSOR GARY FULLERTON

INTRODUCTION

My election as Secretary General of IOMP in 1997 was a surprise and the discovery that this was simultaneous selection as Secretary of IUPESM was shocking. In spite of this the IUPESM has survived and even thrived over the past three years.

CONVERSION TO AN ELECTRONIC SECRETARIAT

An evaluation of IUPESM goals and resources in late 1997 established the need to more extensively use the internet communications for official activities. The Administrative Council established that regular meetings using a “virtual meeting” format were feasible. Four such meetings were held over the past three years. The Officers and Council successfully used these methods in obtaining unanimous acceptance as a full member of ICSU.

LINKING OF IUPESM HOME PAGE TO IOMP AND IFMBE

The IOMP home page (<http://www.iupesm.org>) was redesigned and moved to the American Institute of Physics with the intent of integrating it with the WC2000 knowledge network following the Chicago2000 meeting. A proposal to establish a full time IUPESM WC2000 Editorial Board has been accepted by the Administrative Council and will be considered by the Assembly in Chicago.

UPGRADING ICSU INTERACTIONS

As a result of IUPESM election to full member status there are greater opportunities for the union to interact and collaborate in a wider range of international science projects involving WHO, UNESCO and others. The method to implement these programs will be discussed by a IUPESM Consensus Workshop at the Chicago2000 meeting.

Examples of these new types of interactions are the attendance of Oskar Chomicki and Nandor Richter at the World Science Conference where they worked to insert key wording in the resulting UNESCO summaries to better represent IUPESM interests. Gary Fullerton and Dov Jaron represented the Union at the biannual ICSU General Assembly

where the voting delegates unanimously accepted the IUPESM as a full member. The Secretary-General, however, notes to the IUPESM membership that the present income of £5000 per year will be inadequate to achieve the full benefits of ICSU membership.

RESTRUCTURING IUPESM FOR KEY PROGRAMMES

An expanded infrastructure is necessary to achieve the full benefits of international cooperation for our combined specialties. In addition there is the need to distribute responsibilities and work to a broader range of members. The President will report on the results of the Consensus workshop to achieve these ends at the General Assembly meeting.

STATUS OF IUPESM FINANCES

The IUPESM has an annual income of £5000. Many expenses are incurred at the time of the World Congress and the audited results will not be available until after September 30, 2000. At present it is expected that the Union will end the triennium with a reserve of approximately \$10,000. It is also recommended that the dues allocations from the IOMP and IFMBE be increased from £2500 per year each to \$10,000 per year.

STATUS OF THE WORLD CONGRESS

The Chicago2000 World Congress on Medical Physics and Biomedical Engineering has been a resounding success in many ways. The number of attendees is greater than 6000. The focus on uses electronic resources to promote better and cheaper interchange of information has been a success but reveal that there is much yet to be done. Preparations for Sydney2003 are on track. Four applications to host the Congress in 2006 were received from Korea, Hong Kong (with China), Switzerland (with Germany and UK) and Israel.

SUMMARY

The IUPESM has made considerable progress in the past three years under the leadership of President Keith Boddy. To consolidate this progress a new structure and increased funding will be necessary. It is a time of both great promise and great challenges.

Respectfully submitted,

Gary D. Fullerton

Final

International Union for Physical and Engineering Sciences in Medicine
IUPESM

Budget 2001USA Account (American Dollars)**Income:**

| | Totals | |
|-------------------------|--------|-------------|
| Transfer from 2000 | | \$10,000.00 |
| IFMBE Dues | | \$10,000.00 |
| IOMP Dues | | \$10,000.00 |
| Grants | | |
| | | |
| <i>Income Sub-total</i> | | \$30,000.00 |

Expenses:

| | | |
|--|------------|--------------------|
| Office Operations | | \$6,400.00 |
| Executive Secretary Salary | \$5,000.00 | |
| Postage | \$600.00 | |
| Supplies | \$600.00 | |
| Services | \$200.00 | |
| Officer Travel | | \$1,500.00 |
| Homepage Maintenance | | \$2,000.00 |
| ICSU Membership dues | | \$1,600.00 |
| Awards and Honors | | \$0.00 |
| ICSU Liaison Committee | | \$3,000.00 |
| Education and Training Committee | | \$1,000.00 |
| Regional Development Committee | | \$1,000.00 |
| Publications Committee | | \$1,000.00 |
| Public and International Relations Committee | | \$1,000.00 |
| | | |
| <i>Expense Subtotal</i> | | \$18,500.00 |
| | | |
| Account Balance | | \$11,500.00 |