



University of Stuttgart
Institute of Biomedical Engineering

BIOMEDEA

*Biomedical Engineering Preparing for the
European Higher Education Area*

incorporating the International Symposium on

*Patient Safety:
Biomedical/Clinical/Hospital Engineering
Providing a Safe Health Care Environment*

PROGRAM

<http://www.bmt.uni-stuttgart.de/biomedea>

Institut für Biomedizinische Technik, Universität Stuttgart
September 23 - 25, 2005



BIOMEDEA III: co-sponsored by the University of Stuttgart and IFMBE, organized in co-operation with WHO, endorsed by EAMBES



World Health Organization



CONFERENCE COMMITTEE

Conference Chair:

Joachim Nagel, University of Stuttgart (Germany)

BIOMEDEA Consortium Chairs:

Joachim Nagel, University of Stuttgart (Germany), Coordinator

Dick Slaaf, Technical University Eindhoven (Netherlands)

Jan Wojcicki, IBIB, Polish Academy of Sciences, Warsaw, (Poland)

Local Organizing Committee, IBMT, University of Stuttgart:

Monika Nagel (chair), Johannes Port, Markus Stefan, Suk-Lim Han, Christoph Jopek, Regina Gräfe

SESSIONS

Plenary 1: Accreditation of BME Programmes, Clinical Engineering Training, Certification and Continuing Education

Chairs: Dick Slaaf (Technical University Eindhoven, Netherlands), Joe Barbenel (University of Strathclyde, UK), Kalju Meigas (Tallinn University of Technology, Estonia)

Symposium: Patient Safety - Biomedical/Clinical/Hospital Engineering Providing a Safe Health Care Environment

Chairs: Andrei Issakov (WHO), Joachim Nagel (University of Stuttgart, Germany), Jan Persson (Lingköping University, Sweden)

Workshop 1: Criteria and Guidelines for the Accreditation of Biomedical Engineering Programmes in Europe

Chairs: Liz Tanner (Queen Mary University of London, UK), Göran Salerud (Lingköping University, Sweden)

Workshop 2: European Protocol for the Training of Clinical Engineers

Chairs: William Grimson (Dublin Institute of Technology, Ireland), Timö Jämsä (University of Oulu, Finland)

Workshop 3: European Protocol for the Certification of Clinical Engineers

Chairs: Heikki Teriö (Karolinska University Hospital, Sweden), Dan Adam (Technion, Haifa, Israel)

Workshop 4: European Protocol for the Continuing Education of Clinical Engineers

Chairs: Paolo Inchingolo (University of Trieste, Italy), Thordur Helgasson (University Hospital Reykjavik, Island)

Workshop 5: IFMBE International Register of Clinical Engineers

Chairs: Joachim Nagel (University of Stuttgart, Germany), Hermann Gilly (University of Vienna, Austria)

Breakout Session Chairs:

Per Ask (Sweden), Joe Barbenel (UK), Giuseppe Baselli (Italy), Alfredo Franco-Obregon (Switzerland), , Bill Grimson (Ireland), Jens Hauelsen (Germany), Jiri Holcik (Czech Republic), Helmut Hutten (Austria), Jiri Jan (Czech Republic), Timö Jämsä (Finland), Ratko Magjarevic (Croatia), Marc Nyssen (Belgium), Dick Slaaf (The Netherlands), Liz Tanner (UK), Heikki Teriö (Sweden)

PROGRAM

Thursday, September 22, 2005

Arrival of participants

- 13.00 - 18.30 Meeting of the European Alliance for Medical and Biological Engineering and Science (EAMBES) Extended Executive Board
- 15.00 - 18.00 Meeting of the IFMBE Clinical Engineering Division Board
- 16.00 - 18.00 Registration of the Participants
University of Stuttgart, Tiefenhörsaal, Kollegiengebäude 2, Keplerstrasse 17, Stuttgart

Friday, September 23, 2005

- 08.00 - 17.00 Registration
University of Stuttgart, Tiefenhörsaal, Kollegiengebäude 2, Keplerstrasse 17, Stuttgart
- 08.30 - 09.00 Welcome and Opening Remarks
Joachim Nagel, Conference Chair and President of the IFMBE
Jörg Brüderl, Vice-Rector of the University Stuttgart
Andrei Issakov, World Health Organization
Jos Spaan, President, European Alliance for Medical and Biological Engineering and Science
- 09.00 - 13.10 **Plenary: Accreditation of BME Programmes, Clinical Engineering Training, Certification and Continuing Education**
- 09.00 - 09.10 *Joachim Nagel, Conference Chair*
Introduction to the BIOMEDEA Project
- 09.10 - 09.40 *Ian Freeston, EUR-ACE Steering Committee, UK*
The EUR-ACE Project
- 09.40 - 10.00 *James O. Wear, Chairman of the ACCE Education Committee, USA*
Certification and Its Importance in Hospital Engineering
- 10.00 - 10.20 *Frank Painter, Chairman of the ACCE Certification Committee, USA*
CE Certification in the US and the Clinical Engineering Internship MS Program at the University of Connecticut
- 10.20 - 10.40 *Paolo Inchingolo, Director of Higher Education in CE, University of Trieste, Italy*
The Multi-Level Education in Clinical Engineering of the University of Trieste
- 10.40 - 11.10 Coffee break
- 11.10 - 11.30 *Azman Hamid, Commission for the Advancement of Healthcare Technology Management in Asia (CAHTMA) and Healthtronics, Malaysia*
Training and Certification of Clinical Engineers in Asia
- 11.30 - 11.50 *Enrico Nunziato, IFMBE CE Division Board, South Africa*
CE and Certification, the Needs in Developing Countries
- 11.50 - 12.10 *Jorge Saide Calil, IFMBE CE Division Board, Brazil*
Brazilian Views on the Accreditation of Biomedical Engineering Programmes, the Training of Clinical Engineers and the IFMBE International Register of Clinical Engineers
- 12.10 - 12.30 *Helmut Hutten, Chairman of the IFMBE Ethics Committee, Austria*
E-Learning - another approach for harmonization and continuing education
- 12.30 - 12.50 *James O. Wear, Chairman of the ACCE Education Committee, USA*
Continuing Education in Hospital Engineering, including BME/CE and Hospital Safety Staff in the US

- 12.50 - 13.10 *Joseph F. Dyro, Past President of the ACCE, IFMBE-ACCE Liaison, USA*
Actualizing the Clinical Engineering Handbook through International Collaboration
- 13.10 - 13.30 Brief Statements by representatives of the participating societies and associations on the BIOMEDEA initiative for Accreditation, Training, Certification, Continuing Education and Registration.
- 13.30 - 14.30 Lunch
- 14.30 - 18.00 **Symposium on Patient Safety - Biomedical/Clinical/Hospital Engineering Providing a Safe Health Care Environment (part I)**
- 14.30 - 14.50 *Andrei Issakov, World Health Organization, Geneva, Switzerland*
The Global Challenge of Patient Safety – the WHO Response and the World Alliance for Patient Safety
- 14.50 - 15.10 *Joseph F. Dyro, Past President of the ACCE, IFMBE-ACCE Liaison, USA*
Broadening Clinical Engineering Horizons to Create Safer Health Services
- 15.10 - 15.30 *Peter Heimann, Andrei Issakov, World Health Organization, Geneva, Switzerland*
Health Technology Management and its Role in Providing Quality and Safe Care
- 15.30 - 15.50 *Jan Persson, IFMBE HCTA Division Board, Sweden*
The Role of HTA in Diffusion and Implementation of Devices Today and in the Future, and the Impact on Patient Safety Issues
- 15.50 - 16.10 *James O. Wear, Chairman of the ACCE Education Committee, USA*
Biomedical/Clinical/Hospital Engineering Providing a Safe Health Care Environment
- 16.10 - 16.40 Coffee break
- 16.40 - 17.00 *Itziar Larizgoitia, World Health Organization, Geneva, Switzerland*
e-Health and Patient Safety: Exploring the Link
- 17.00 - 17.20 *Lodewijk Bos, President of the International Council of Medical and Care Compunetics, Netherlands*
What Medical and Care Compunetics Can Do to Improve Patient Safety
- 17.20 - 17.40 *Frank Painter, Chairman of the ACCE Certification Committee, USA*
The Importance of CE Certification for Patient Safety and the Needs and Benefits of an Internationally Recognized CE Certification System
- 17.40 - 18.00 *Heikki Teriö, IFMBE AC Member and CE Division Board, Sweden*
Improvement of Patient Safety by CRM Training
- 19.00 - 23.00 Dinner

Saturday, September 24, 2005

- 08.30 - 11.30 **Symposium Patient Safety – Biomedical/Clinical/Hospital Engineering Providing a Safe Health Care Environment (part II)**
- 08.30 - 08.50 *Brian M. O'Connell, President of the IEEE Society on Social Implications of Technology and Board of Governors of the IEEE Computer Society, USA*
Patient Safety, the Ethical and Social Implications for Clinical Engineers
- 08.50 - 09.10 *Azman Hamid, Commission for the Advancement of Healthcare Technology Management in Asia (CAHTMA) and Healthtronics, Malaysia*
What CAHTMA and Healthtronics are Planning to Do for Patient Safety in Asia
- 09.10 - 09.30 *Tom Cooper, Engineering Council of South Africa*
CE Certification and Patient Safety Issues in South Africa
- 09.30 - 09.50 *Frank Painter, Chairman of the ACCE Certification Committee, USA*
Human Factors Engineering and Incident and Accident Investigation

- 09.50 - 10.10 *Günter Rau, Chairman of the International Academy for Medical and Biological Engineering, Germany*
Increase in Patient Safety by Blood Cryopreservation Technology
- 10.10 - 10.40 Coffee break
- 10.40 - 11.00 Plenary Discussion: Patient Safety and what BME/CE/HE can do to provide a safe health care environment, results from the questionnaire
- 11.00 - 11.30 *Andrei Issakov, World Health Organization, Geneva, Switzerland*
Wrapping up and summarizing the presentations and discussions; suggestions for a position paper on Health Technology Management and Patient Safety; proposing "A Safe Environment for Safer Care" as a Global Patient Safety Challenge
- 11.30 - 14.45 **Workshop I**
Criteria and Guidelines for the Accreditation of Biomedical Engineering Programmes in Europe
- 11.30 - 11.40 *Joe Barbenel, IPEM, UK*
Presentation of the "after Warsaw" Criteria and Guidelines
- 11.40 - 12.00 *Ian Freeston, EUR-ACE Steering Committee, UK*
Comments on the Criteria and Guidelines
- 12.00 – 13.15 Breakout Sessions, Discussion of the Criteria and Guidelines
- 11.30 - 13.15 CED Board Meeting
- 13.15 - 14.30 Lunch
- 14.30 – 14.45 Workshop I
Reports from the Breakout Sessions
- 14.45 - 16.45 **Workshop II**
European Protocol for the Training of Clinical Engineers
William Grimson, IEL, Ireland
Presentation of the "after Warsaw" Protocol
Breakout Sessions, Discussion of the Protocol
- 16.05 - 16.30 Coffee Break
- 16.30 - 16.45 Reports from the Breakout Sessions
- 16.45 - 18.30 **Workshop III**
European Protocol for the Certification of Clinical Engineers
Presentation of the Draft Protocol
Breakout Sessions, Discussion of the Protocol
Reports from the Breakout Sessions
- 19.00 – 23.00 Dinner

Sunday, September 25, 2005

- 09.00 - 10.40 **Workshop IV**
European Protocol for the Continuing Education of Clinical Engineers
Presentation of the Draft Protocol
Breakout Sessions, Discussion of the Protocol
Reports from the Breakout Sessions

10.40 - 11.10 Coffee Break

11.10 - 12.50 **Workshop V**

IFMBE International Register of Clinical Engineers

Joachim Nagel, IFMBE President

Presentation of the Draft Proposal

Breakout Sessions, Discussion of the Protocol

Reports from the Breakout Sessions

12.50 - 12.55 Closing of the meeting

13.00 Lunch

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Keplerstrasse 17
Stuttgart

TIME TABLE

Time	Thursday, September 22, 2005	Friday, September 23, 2005	Saturday, September 24, 2005	Sunday, September 25, 2005
8.00		Registration, Coffee		
8.30		Opening	Patient Safety Symposium Part 2	
9.00		Plenary Session 1 Accreditation of BME Programmes, CE Training, Certification and Continuing Education		Workshop 4 Continuing Education
10.00				Workshop 5 International CCE Register
11.00				Lunch
12.00			Workshop 1 Accreditation	
13.00		Lunch	Lunch	Lunch
14.00		Patient Safety Symposium Part 1	Workshop 2 CE Training	
15.00	IFMBE CED Board Meeting 15.00 - 18.00			Workshop 3 CE Certification
16.00	Registration 16.00 - 18.00			
17.00				
18.00				
19.00		Dinner	Dinner	
23.00				