

Time	Sept 20th	September 21 st	September 22 nd	September 23 rd				
7:30 - 8:30	Arrival and Check in	Registration	NO EVENT	See TABLE II for information about workshop and Meetings				
8:30 – 9:30		Opening Ceremony: Dr. Luiz Fernando (IEP/HSL-Brazil), Mr. Hanzhong Zhang (CMD-China), Mrs Adriana Velazquez (WHO-Geneva), Dr. Ernesto Yadanza (IFMBE/CED), Dr. Kang Ping Lin (IFMBE) Dr Yadin David (ACCE-USA), Dr Saide Jorge Calil (Chair-Brazil)	Key Speaker 5 – Dr. Yadin David <i>Preventable adverse events: how to?</i>					
9:30 – 10:15		Key Speaker 1: Eng. Adriana Velazquez <i>The role of Clinical Engineering for the World Health Organization</i>	Round Table 1 - <i>Adverse events</i> Chair: Dr. Yadin David Table participants: Dr. Leandro Pecchia Eng. Mario Castañeda Dr. Alexandre Hermini					
10:15 – 10:30			Coffee Break					
10:30 – 11:15		Key Speaker2: DR. KP Lin <i>Biomedical Engineering/Clinical Engineering role for policy implementation of medical equipment regarding post Market surveillance in the health system</i>	Key speaker 6 – Prof. Anthony Easty <i>Medical Device Risk Management from a Human Factors Perspective</i>					
11:15 - 12:00		Key Speaker3: Eduardo Jorge Valadares <i>The Role of Clinical Engineers for the Management of Healthcare Technologies in a Hospital Network</i>	Round Table 2 – Human Factor Engineering Chair: Prof. Anthony Easty Table participants: Mrs. Ana Paula Almeida Jose Alberto Ferreira Dr. Nicolas Pallikarakis					
12:00 – 13:00		Lunch	Lunch					
13:00 – 15:30		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Articles presentation (oral session) 13:00-13:30 Session Speaker 1: Eng. Tom Judd & Prof. Ricardo Silva (via skype), <i>New Developments in Global CE-IT</i> 13:30-15:30: 1st of 10 Oral Presentations </td> <td style="width: 50%; padding: 5px; text-align: center;"> Poster Exhibition and Presentation Chair: Alexandre Ferreli </td> </tr> </table>	Articles presentation (oral session) 13:00-13:30 Session Speaker 1: Eng. Tom Judd & Prof. Ricardo Silva (via skype), <i>New Developments in Global CE-IT</i> 13:30-15:30: 1 st of 10 Oral Presentations		Poster Exhibition and Presentation Chair: Alexandre Ferreli	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Articles presentation (oral session) 13:00-13:30 Session Speaker 2: Dr. Ernesto Iadanza, <i>Decision Support Systems: an all-round approach to healthcare management</i> 13:30-15:30: 2nd of 10 Oral Presentations </td> <td style="width: 50%; padding: 5px; text-align: center;"> Poster Exhibition and Presentation Chair: José Alberto Ferreira </td> </tr> </table>	Articles presentation (oral session) 13:00-13:30 Session Speaker 2: Dr. Ernesto Iadanza , <i>Decision Support Systems: an all-round approach to healthcare management</i> 13:30-15:30: 2 nd of 10 Oral Presentations	Poster Exhibition and Presentation Chair: José Alberto Ferreira
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15:30 – 15:45		Coffee Break	Coffee Break					
15:45 – 16:30		Key Speaker 4: Prof. Mladen Poluta <i>Health Technology Management in the African Continent</i>	Key Speaker 7: Prof. Nicolas Pallikarakis <i>Medical Devices Vigilance and the EU Regulations</i>					
16:30 - 17:00		Final Discussion Moderators: Dr. James Wear Dr. Elliot Sloane	Final Discussion Moderators: Dr. Paolo Lago Dr. Wang Binseng Eng. Murilo Contó					
17:00 – 17:30		Clinical Engineering Division Award Ceremony	Closing Ceremony					
	End of First Day	End of Second Day	End of Third day	End of Forth Day				

TABLE II – Saturday, September 23rd, 2017

Morning Period			Afternoon Period
8:00 am – 10.00 am	10:00 – 10:30	10:30 am -12:30 am	2:00 pm – 6:00 pm
Dr. Elliot Sloane <i>Total Cost Ownership</i>	2 Articles presentation (oral session)	Dr. Yadin David: <i>Risk management in IT network</i>	GLOBAL CE SUMMIT
Dr. Wang Binseng: <i>Quality Control and Quality Management for Medical Equipment - Part I</i>		Dr. Wang Binseng: <i>Quality Control and Quality Management for Medical Equipment - Part II</i>	<ul style="list-style-type: none"> • 25-30 countries' representatives expected – by invitation • Global Summit desired outcome: continue momentum on key issues of recognition and education/training from 1st Summit in 2015. Will build on the professional recognition at MOH level expected with ILO and WHO in 2018, as well as CED education/training projects. We expect twice as many countries at the table this Saturday afternoon than were able to join at the 1st Summit. See resulting Global CE Success Story project at http://cedglobal.org/?s=global+CE+summit and 2015 1st Global CE Summit report. • Planned Summit Agenda <ul style="list-style-type: none"> ○ Recognition of members attending; Adoption of the agenda ○ Review of the initial plan and progress achieved ○ Status report from regions (template provided) <ul style="list-style-type: none"> ▪ LA&C Region ▪ Africa Region ▪ Asia Region ▪ Europe Region ○ Updating global challenges list; Updating list ranking, eg, prioritize <ul style="list-style-type: none"> ▪ Distance learning, e-Courses (Mario Forjaz Secca white paper) ▪ Certification (James Wear white paper) ▪ Recognition (Adriana Velazquez ILO 2018 submission update) ▪ BOP/BOK (Saide Calil global survey update) ▪ Recognition alongside medical physicists (Yadin David IUPESM HTTG update) ○ What are we doing well? What we need to initiate or improve ○ Adopt projects and next action plan. Assign lead persons and timeline ○ Next steps; Adjourn

WORKSHOP SYNOPSIS

Dr. Elliot Sloane: Total Cost Ownership

(2 Hours Workshop)

This workshop will address the real cost of medical device and system ownership in 21st Century healthcare. It will review the historical TCO and Life Cycle Cost (LCC) cost analysis models for traditional medical devices as well as the emerging CE-IT new devices and systems. The presenter will provide numerous examples from his many years of experience as a global leader in HTM, IT and eHealth. Examples incorporate WHO/PAHO's work where "eHealth is the use of information and communication technologies (ICT) for health." See <http://www.who.int/ehealth/en/>. Examples of newer CE-IT and ICT systems and tools include mHealth, the Internet of Things (IoT), and Cloud Computing. This session will prepare CEs for important connections and partnerships with health leaders in coming years.

Dr. Yadin David: Hospital Integrated Networks Risk Management Issues and Recommendations

(2 hours Workshop)

Risk is inherent in organizations of all shapes and sizes. In healthcare delivery, the goal is to define the risk and apply safeguards to prevent risk from causing unintended consequences. Of the roles that clinical engineers practice perhaps system's risk Management is the most critical one. This workshop will introduce principals of integrated healthcare IT networks, integration of medical devices into these networks, and the benefits and risks of medical devices integration. It will incorporate the strategy addressed by IEC 80001 standard: risk management for networks incorporating medical devices and the challenges that it covers. The workshop will include introduction to risk management, identification of system risks, roles and responsibilities, and the management of the system. It will provide understanding of the process of implementing integrated medical technology system that minimizes risk, maximizes efficiency, and provides for continued safe operation. The workshop will conclude with an exercise applying risk management concepts, and provides lessons learned for sustaining safe integrated systems including in the wireless networked environments.

Dr. Binseng Wang: Application of Quality, Risk & Asset Management Principles to Clinical Engineering

(3 hours workshop)

First, the concepts and methods of quality, risk, and asset management applicable to any industry will be presented to provide a common foundation for all participants. Next, through a series of small group exercises, the attendees will learn how to apply these concepts and methods to three basic elements of Clinical Engineering: (1) Strategic technology incorporation, (2) Evidence-based scheduled maintenance, and (3) Evidence-based corrective maintenance. Discussion of the results obtained from each group will allow the attendees to see how they can take home lessons that can be immediately applied to their own organizations.

Thursday Oral Presentations: CE-HTM Capacity Building & CE-IT Focus:

13:00 – 13:30

New Developments in Global CE-IT, Tom Judd, USA

13:30-15:30, Tom Judd, Facilitator

1. Launch of the new "WHO Collaborating Centre for Research and Training in CE and HTM", Corrado Gemma, Italy
2. Analysis of the Curriculum of Postgraduate Courses in Clinical Engineering in Brazil, Anderson Ramos, Brazil, (presented by Lucio Brito)
3. Opportunities of the Mexican Biomedical Engineering Society to influence and adopt Clinical Engineering in Mexico, Elliot Vernet, Mexico
4. The Italian Clinical Engineers Association: a success story, Stefano Bergamasco, Paolo Lago, Italy
5. Wireless Body Sensor Network and ECG Android App for eHealth, Baset Khalaf, South Africa
6. Improving Healthcare Technology Assessment in Cold Chain by Applying Clinical and Industrial Engineering, L.F.M. Brito, A.M. Carneiro, F.R.M. Reis, D.L. Rodrigues, I.N. Silva, Brazil
7. Clinical Engineering and Impact on the Financial Management of the Hospital, Paula Berrio, Colombia
8. The history of CMBES-Ghana Health Service Teamwork: Focus on Donations, Nicholas Adjabu MD, Ghana
9. Clinical engineering outreach activities of Knowledge Transfer, Costica Uwitonze, Rwanda
10. Improving Operational Reliability in Medical Washer Disinfector with the Use of FMEA Tool: A Quality Improvement Report, M.C.C. Espinheira, M.L. Souza, P.B. Moreira Neto and K.L. Pinheiro, Brazil

Friday Oral Presentations: HTM, Risk, & HFE Focus:

13:00 – 13:30

Decision Support Systems: an all-round approach to healthcare management, Dr. Ernesto Iadanza, Italy

13:30-15:30, Ernesto Iadanza, Facilitator

1. Mutual recognition research of medical imaging remote intelligent quality control technology, Liu JingXin; China
2. Medical Device Manuals Analysis Using Heuristic Evaluation, J. C. Carneiro, E. L. Muller, R. M. A. Almeida, A. P. S. S. Almeida, Brazil
3. Decodifying HTM in Mexican Private Hospitals, Luis Fernandez, Mexico
4. Case-based Self-learning Interactive Model of Medical Device Troubleshooting and Management, KP Lin, Taiwan
5. A methodology to implement an effective interoperable platform for an ICU (ICU 4.0), L. Gabrielli, M. Scoton and M. Bego, A. Zapparoli, A. Pereira, G. Cerri, M. Dias, Brazil
6. Proposed Calibration of Apheresis Equipment, A.S. Anderson, A.M. Marcelo, L.R. Rodrigo, Brazil
7. Medical Devices Repair/Replacement Algorithm Model, Riad Farah, Lebanon
8. Discarding Flow Proposition of Hospital Electro-Electronic Equipment, M. A. Marciano, Brazil
9. Necessity of Clinical Engineering to Regulate the Medical Devices in Middle Income Countries, Anwar Hossain, Md. Ashrafuzzaman, Bangladesh
10. Regulation, standards and market surveillance of medical devices and systems in Albania, Ledina Picari, Albania

Saturday Oral Presentations: Quality Focus & HTM:

10:00-10:30 am, 2 parallel sessions, 1st - Ernesto Iadanza, Facilitator

1. An observational study of the high incidence of false and nuisance alarms in an intensive care unit, L.G. Vaz, G.C. Vivas, Brazil
2. Geocoding Dengue Cases for Spatial Analysis, J. L. S. Lustosa, D.F. Lima, L.C.A de Sousa, L. M. Brasil, M. T. Obara, Brazil

10:00-10:30 am, 2 parallel sessions, 2nd – Tom Judd, Facilitator

3. Clinical Engineering Approach to Improve Healthcare Technology Management for Enhancing Healthcare Delivery System in Middle Income Countries, Anwar Hossain et al, Bangladesh
4. The Odyssey of an HTM Expert in Africa, Andre Mboule, Cameroon