



**IFMBE**

**International Federation for Medical and Biological Engineering**

*A member of the International Union on Physical and Engineering Science in Medicine (IUPESM)*

IFMBE AC Meeting

11<sup>th</sup> June, 2017

Tampere, Finland



**IFMBE**

**Clinical Engineering Division**

# CED Activities Report 2016-17

IFMBE AC Meeting

11<sup>th</sup> June, 2017

Tampere, Finland

**Board Members****Chair**

Ernesto IADANZA

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Tom JUDD, Secretary

Mladen POLUTA, Treasurer

Saide CALIL, Elected Member

Tony EASTY, Elected Member

Paolo LAGO, Elected Member

Ewa ZALEWSKA, Elected Member

**Coopted Members**

Zhou DAN

Yadin DAVID

Herbert F. VOIGT

James WEAR

**Collaborator members**

Abdul Basit (UK)

Zhivko Bliznakov (Bulgaria)

Mario Castaneda (USA)

Anthony Chan (Canada)

Tobey Clark (USA)

Giuseppe Fico (Spain)

Monique Frize (Canada)

Bill Gentles (Canada)

Antonio Hernandez (USA)

Fred Hosea (USA, Ecuador)

Niranjan Khambete (India)

Mario Medvedec (Croatia)

Shauna Mullally (Canada)

Frank Painter (USA)

Nils-Erik Pettersson (Sweden)

Ledina Picari (Albania)

Mario F. Secca (Mozambique)

Elliot Sloane (USA)

Anna Worm (The Netherlands)

**New Collaborators in 2017:**

Mohammad Ameer (India, MOHFW/NHSRC)

Prabhat Arora (India, MOHFW/NHSRC)

Ajai Basil (India, MOHFW/NHSRC)

Dan Clark (UK, Head of CE, Nottingham NHS Trust)

Keiko Fukata (Japan, JACE)

Hiro Igeta (Japan, JACE)

Tadayuki Kawasaki (Japan, Chairman JACE)

Zheng Kun (China, Vice Chair CCCE)

Adrian Richards (Australia, Chair National Panel on CE)

Rossana Rivas, (Peru, Exec. Director CENGETS-PUCP)

Judish Raj (India, AMTZ)

Jitendar Sharma (India, CEO AMTZ)

Jun Yoshioka (Japan, JACE)



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IFMBE AC Meeting

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# CED Projects

Status update



CED Projects (Committees)	Comments	Project Leaders	Discussion on CED meetings	Next Steps
1. International Forum of Clinical Engineering Societies IFCES / CED IFMBE	Body of Practice / Knowledge (BOP/BOK)	Saide Calil & Herb Voigt	<ul style="list-style-type: none"> <li>BOK/BOP: Phase 1 (10 basic questions): 670 + sent to societies, 233 answers - all agree to Phase 2 (40 detailed questions); translation coming</li> <li>Forum meetings desired in Tampere &amp; Sao Paulo-SP. <u>Meet in SP re Certification using BOP/BOK; Tampere – holding Certification special session.</u></li> <li>See 2017-18 Regional meetings plans in item #20.</li> <li>More educational program and Forum development activities planned 2017</li> </ul>	<ul style="list-style-type: none"> <li>Good progress on BOP/BOK; see 3/8 update on minutes about Intl Forum.</li> <li>Ongoing BOP/BOK e-dialog with team members; <u>Calil asks for some help in ensuring timely follow-up with Frank Painter; Tom &amp; Ernesto to help.</u></li> <li>Tom Judd to provide Global CED Directory update</li> </ul>
2. Translation of Human Factor Guidelines book	At no cost into Spanish (Vladimir Q at USB Colombia) & Portuguese (Renato G at UFSC Brazil)	Tony Easty	Spanish, Portuguese; now India wants to use, & contribute to HFE book (& related work), v2 version possible, combining others' input. See book at <a href="http://cedglobal.org/ced-books/">http://cedglobal.org/ced-books/</a>	<ul style="list-style-type: none"> <li>Both the Spanish and Portuguese translations now in draft form and have been sent out for expert review by reviewers who know the subject matter and whose first language is either Spanish or Portuguese.</li> <li>Reviews to be completed by the end of the summer,</li> <li>The comments will be passed back to the original translation teams so that the documents can be finalized (by year end)</li> </ul>
3. Professional Journal	CEHTA Journal project with HTAD		CEHTA Journal now on hold; will relook at approach in 2017.	<ul style="list-style-type: none"> <li>Now discontinued as of 3/17.</li> <li>CED will seek key Success Story publishing</li> </ul>

CED Projects (Committees)	Comments	Project Leaders	Discussion on CED meetings	Next Steps
5. E-Course	Project overview sent out 12/16; Q2 2017 pilot	Mladen Poluta & Shauna Mullally	<ul style="list-style-type: none"> <li>Phase 1 moving ahead in 3 African countries; will have oversight through Advisory Committee.</li> <li>Antonio considering in Latin America – 3 countries, Spanish &amp; Portuguese.</li> <li>Rossana has high praise for Tobey's on-line course with impact on Peru's NIH/MoH programs over last few years.</li> </ul>	<ul style="list-style-type: none"> <li>After meeting in Geneva with IFMBE Officers, it has been decided to provide courses through PAHO platform (contents from UVM)</li> </ul>
6. International Directory and Program(s) for Certification / Registration in CE	Special session "Clinical engineering revisited: towards a white paper" at EMBEC2017 in Tampere, Finland, next June. Proposed by Mario Medvedec and attended by other CED members: <a href="http://embec2017.org/special-sessions/">http://embec2017.org/special-sessions/</a>	James Wear and Zhou Dan	<ul style="list-style-type: none"> <li>Certification: 3 programs highly accepted around world – US, Taiwan, &amp; China, will put on website with contact. Working with others – eg, Brazil &amp; Nigeria.</li> <li>Registration: need more input &amp; contacts from other national programs. IFCES good location for this feedback, along with Ewa Zalewska, Mario Medvedec, Saide Calil, &amp; Herb Voigt's input..</li> </ul>	<ul style="list-style-type: none"> <li>Jim Wear leading many meeting in 2017.</li> <li>First draft document now available.</li> <li>Final version to be presented in September in Brasil (ICEHTM2017)</li> </ul>
7. + 8. CED Strategic Communications & Global CED website <a href="http://cedglobal.org/">http://cedglobal.org/</a>	A lot of great website work by Fred Hosea and the CED strategic communications team in 2016-17; #8 website project becoming part of project #7 in 2017	Ernesto Iadanza	<ul style="list-style-type: none"> <li>A lot going on, social media, etc.</li> <li>Basit Abdul, Mario Castaneda, Fred Hosea, Tom, Yadin assisting.</li> <li>Fred requests we set up CED reps from each WHO Region; also in different languages (Mladen).</li> </ul>	<ul style="list-style-type: none"> <li>Website updated regularly (daily/weekly). Now compatible with mobile devices. Many new sessions (<a href="#">upcoming events</a>, <a href="#">news</a>, <a href="#">recent posts</a>). Dedicated sessions (e.g. <a href="#">Global CE Day</a>, <a href="#">Global CE success stories</a>).</li> <li>Integration with real-time social media (Twitter, Facebook, Youtube videos)</li> <li>New "IFMBE CED Board Members recent publications from Scopus" section.</li> <li>New Twitter account <a href="#">@IFMBE_CED</a> with 140 followers (including WHO and other important associations). Real-time coverage of IFMBE events and conferences (e.g. <a href="http://cedglobal.org/icmbe2016-singapore/">http://cedglobal.org/icmbe2016-singapore/</a>).</li> <li>IFMBE WebEx account used for about 50 web-conferences so far</li> <li>New listserv <a href="http://CEDGLOBAL.ORG/PHPList">CEDGLOBAL.ORG/PHPList</a> used to send 1370 messages in 2016-17</li> </ul>



CED Projects (Committees)	Comments	Project Leaders	Discussion on CED meetings	Next Steps
9. Clinical Engineering Awards	2016 & 2017 awards to be given in 2017	Tony Easty	Committee members for 2017: Yadin David, Tom Judd, Jim Wear, Ewa Zalewska. Ernesto Iadanza ex-officio member.	<ul style="list-style-type: none"> <li>Robust process in 2016</li> <li>2017 process in progress: <ul style="list-style-type: none"> <li><u>Best paper winners already selected</u></li> <li><u>Teamwork candidatures received</u></li> <li><u>CE Award in progress, to be presented at WC2018</u></li> </ul> </li> </ul>
10. II ICEHTMC <a href="http://www.icehtmc.com/">http://www.icehtmc.com/</a>	A lot of progress	Saide Calil	<ul style="list-style-type: none"> <li>Major global preparation effort underway; going well.</li> <li>Sep 21-23; 3<sup>rd</sup> day set for Global CE Summit &amp; workshops.</li> </ul>	<ul style="list-style-type: none"> <li>4<sup>th</sup> day Wed Sep 20 proposed by PAHO Brazil as pre-Congress Latin America &amp; Carib. Reg. Mtg.</li> <li>Yadin: at Sao Paolo, we need to be ready to identify who will host the 3<sup>rd</sup> World Congress.</li> </ul>
11. Project leader needs		Ernesto Iadanza	Typically for project leader travel to promote CED at strategic conferences, eg, II ICEHTMC and WHO 3GFMD in 2017	<ul style="list-style-type: none"> <li>Minimal use in 2016</li> <li>Budget doubled to 8K € in 2017, to support the II ICEHTMC</li> </ul>
12. Global CE Day <a href="http://global.icehtmc.com/">http://global.icehtmc.com/</a>	Opening and Closing Video Production	Yadin David & Tom Judd	<ul style="list-style-type: none"> <li>Will continue to build on October 21, 2016 successes.</li> <li>See Global CE Day sessions (e.g. <a href="#">Global CE Day, Global CE success stories</a>).</li> <li>Posters/handouts for 2017 underway; with good access.</li> <li>Videos from 2016 being updated for easier access and use.</li> </ul>	<ul style="list-style-type: none"> <li>Expanded 2017 Global CE Day planning has begun.</li> <li>Drafted Proclamation for IFMBE for recognition.</li> </ul>





## Proposed New Projects in 2017

CED Projects (Committees)	Comments	Project Leaders	Discussion on CED meetings	Next Steps
14. CE-IT Global Training & Education	Issue raised in 2016 in response to global needs; desire on-line courses	Elliot Sloane	<ul style="list-style-type: none"> <li>Work has begun; Medical Device Cybersecurity &amp; Interoperability focus as part of overall CE-IT framework</li> <li>Yadin, Tom, others TBD on team led by Elliot</li> <li>Calil to share 600-page CE-IT book from Brazil</li> </ul>	<ul style="list-style-type: none"> <li>Elliot &amp; Tom met with ACCE CE-IT leaders at HIMSS in February 2017, seeking their enhanced leadership for US, with CED leading at global level</li> </ul>
15. Publishing Task Force for Global HT Success Stories	Issue raised in 2016	Yadin David & Tom Judd	<ul style="list-style-type: none"> <li>Oversee getting 5-10 HT SS published in major journal(s) 2017: other team members welcome</li> </ul>	
16. Measurement & Continuity	Newly identified	Mladen recommended by Ernesto	<ul style="list-style-type: none"> <li>Documenting our key methods &amp; tools, eg Congress prep</li> <li>Define &amp; measure CED Key Performance Indicators</li> </ul>	
17. Industry & Government Relationships	Newly identified	Jitendar Sharma recommended by Tom	<ul style="list-style-type: none"> <li>Under consideration, for appropriate partnerships with industry &amp; government/regulatory</li> </ul>	
18. 2017 Updated CE Handbook	Section leaders in Feb-March	Ernesto Iadanza	<ul style="list-style-type: none"> <li>Ernesto announced he was asked to lead update effort in 2017, and wanted the input of many to assist in this work.</li> <li>See 2004 CE Handbook pdf document (many global reports). <a href="http://www.unimasr.net/ums/upload/files/2011/May/UniMasr.com_14ab3dd34c5b89a8eedfe9a1f60900d8.pdf">http://www.unimasr.net/ums/upload/files/2011/May/UniMasr.com_14ab3dd34c5b89a8eedfe9a1f60900d8.pdf</a></li> </ul>	
19. Undergraduate CE Accredited Degree Programs		Herbert F. Voigt	<p>Board input</p> <p>Yadin: Herb well qualified to lead. (1) Do we have data to suggest employers would embrace CEs (justification); survey done yet? Especially needed if this is to go globally. (2) What is ROI for CED investment in this project; how will project be guided between entities</p> <p>Tony: Agrees, internships important (in industry), leads to employment opportunities (most significant differentiator)</p> <p>Jim: VA wanted people with strong engineering background at BS level, then 2-year internship / training program.</p> <p>Tom: Engage Frank Painter! Franchising UConn US &amp; globally now. Realize ACCE will move deliberately and well, it will just take time</p> <p>Ernesto: realize Europe academia and industry operates differently. Require a Needs Assessment to get started.</p> <p>Ewa: noted in Poland the cooperation with government re necessity of CEs employed to meet identified needs in the healthcare system.</p>	<ul style="list-style-type: none"> <li>Frank Painter informed the ACCE Intl Comm. of the expansion of the UConn CE program to several cities across the US and having an international student from Turkey in the current program; university working on a 3-year distant Masters program on CE.</li> </ul>
20. Regional CE-HTM Meetings 2017-2018		Yadin David & Tom Judd	<ul style="list-style-type: none"> <li>Various Regional CE-HTM meetings emerging (see <a href="http://cedglobal.org/events/">http://cedglobal.org/events/</a>), alongside our bi-annual CED Global &amp; Annual IFMBE Congresses</li> <li>Many other CED Board &amp; Collaborators are facilitating</li> </ul>	



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# CED Virtual Meetings

Status update





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IFMBE AC Meeting  
11<sup>th</sup> June, 2017  
Tampere, Finland

## CED Virtual Meetings since September 2016

9/6/2017 Meetings - Cisco WebEx Meetings

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Meet Now Schedule Join by Number

Upcoming Recent Pick a Range

From Gio 15/09/16 To Ven 09/06

Date	Topic
Gio 15 set, 2016 16:00	Meeting for African Federation Conference Host: You   45 min   Recorded
Mar 28 set, 2016 15:00	African Federation Host: You   30 min
15.23	African federation Host: You   1 hr
Mar 11 ott, 2016 14:00	CEHTA meeting Host: You   1 hr   Recorded
Ven 14 ott, 2016 15:05	Website Host: You   30 min
Gio 20 ott, 2016 18:18	Global CE Day UK Rehearsal Meeting Host: You   1 hr
Mar 23 nov, 2016 15:00	IFMBE CED National CE Societies Forum Host: You   1 hr
Mar 6 dic, 2016 21:00	CED Global CE-IT Host: You   1 hr   Recorded
Mar 7 dic, 2016 16:00	II ICEHTMC meeting Host: You   1 hr   Recorded
22:00	Global Funding Strategies Host: You   1 hr   Recorded
Mar 20 dic, 2016 23:00	Japan AAMI 2017 Host: You   1 hr
Gio 5 gen 16:00	IFMBE CED.org meeting Host: You   1 hr   Recorded
20:00	IFMBE CE Futures meeting Host: You   1 hr
Ven 6 gen 15:30	IFMBE CED - structure plans Host: You   1 hr
Lun 9 gen 21:00	IFMBE CED 2017 Structure and Plans, Part 2 Host: You   1 hr   Recorded
Mar 11 gen 15:00	IFMBE CED Board & Collaborators meeting Host: You   1 hr   Recorded
Gio 12 gen	

Chat 1/5

https://meetings.webex.com/join?meetingid=0%7C20160915%7C20170609%7C&...

9/6/2017 Meetings - Cisco WebEx Meetings

19:30	IFMBE CE Futures meeting Host: You   1 hr
Ven 13 gen 4:00	IFMBE CED Pan Asia and Australia meeting Host: You   1 hr   Recorded
16:00	IFMBE CED rules for Paper Submission to II ICEH... Host: You   1 hr   Recorded
Mar 18 gen 14:00	IFMBE CED meeting - Univ Vermont agreement Host: You   1 hr
Gio 19 gen 19:30	CE Futures meeting #3 Host: You   1 hr
Ven 20 gen 19:00	IFMBE CED meeting with WHO Host: You   1 hr   Recorded
Lun 23 gen 18:00	IFMBE CED Africa discussion Host: You   1 hr   Recorded
Mar 25 gen 16:00	IFMBE CED Sam B Scholarship AAMI Application Host: You   1 hr
17:00	IFMBE CED.org meeting Host: You   1 hr   Recorded
Gio 26 gen 2:00	AAMI 2017 Japan Prep meeting Host: You   1 hr
17:00	WHO CED and HTA meeting Host: You   1 hr   Recorded
19:30	CE Futures meeting #4 Host: You   1 hr
Mar 31 gen 20:00	IFMBE CED Cybersecurity Work Group Host: You   1 hr
Gio 2 feb 16:00	IFMBE CED e-course 2017 #1 Host: You   1 hr   Recorded
19:30	CE Futures meeting #4 Host: You   1 hr
Ven 3 feb 18:00	IFMBE CED meeting with WHO Host: You   1 hr
Lun 6 feb 14:00	CED UVM agreement with IFMBE Host: You   1 hr
Mar 7 feb 20:00	IFMBE CED Cybersecurity #2 rescheduled Host: You   1 hr   Recorded
Gio 9 feb 19:30	CE Futures meeting #4 Host: You   1 hr
Ven 10 feb 16:00	Halt Bethesda Gates Grant Host: You   1 hr
18:00	IFMBE CED and WHO meeting Host: You   1 hr   Recorded
Lun 13 feb 17:00	IFMBE CED meeting Host: You   1 hr
Mar 15 feb	IFMBE CED.org meeting

Chat 2/5

https://meetings.webex.com/join?meetingid=0%7C20160915%7C20170609%7C&...

9/6/2017 Meetings - Cisco WebEx Meetings

14:00	Host: You   1 hr   Recorded
15:00	IFMBE CED Board meeting Feb 15 Host: You   1 hr   Recorded
Gio 16 feb 0:30	BRTH Bethesda BOD Host: You   1 hr
19:30	CE Futures meeting #4 Host: You   1 hr
Ven 17 feb 21:00	Gates part 3 Host: You   1 hr
Gio 23 feb 19:30	CE Futures meeting #4 Host: You   1 hr
Ven 24 feb 14:00	IFMBE CED Certification Project Host: You   1 hr   Recorded
Lun 27 feb 16:00	IFMBE CED meeting re Tobey ecourse Host: You   1 hr   Recorded
18:00	IFMBE CED meeting re Australia Host: You   1 hr
23:00	Blockchain recap from HIMSS Host: You   1 hr
Mar 28 feb 14:00	CED UVM agreement with IFMBE Host: You   1 hr   Recorded
Mar 1 mar 13:50	Test IFMBE HTAD meeting Host: You   15 min

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Chat 3/5



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# Global Clinical Engineering Day

October, 21<sup>st</sup> 2016



# IFMBE

## International Federation for Medical and Biological Engineering

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IFMBE AC Meeting  
11<sup>th</sup> June, 2017  
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Global Clinical Engineers (C.E.) Day

TOGETHER WE CAN MAKE IT BETTER

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### Global CE Day Master Schedule - October 21, 2016

# 06:12:10

Jun 09, 2017

Brasilia Time

Events - <http://global.icehtmc.com/>

See the following Events; your comments welcome using [#GlobalCEDay](#)

COUNTRY	TYPE PROGRAM	LOCAL PROGRAM TIME	KEY LEADERS	GREENWICH MEAN TIME (GMT) WORLD CLOCK	LINK TO PROGRAM RECORDINGS
China	First Global CE Day Congress, Beijing	9 am – 6 pm	Zhou Dan, Yadin David, China Medical Device Journal Press	1 am – 10 am	<a href="http://e.vhall.com/289882834">http://e.vhall.com/289882834</a>
India	Global CE Day, Delhi	9:30 am – 1:30 pm	Jitendar Sharma, MOH, AMTZ	4:00 – 8:00 am	<a href="#">India Link</a>
Australia	Virtual Webinar, Adelaide	7 pm	Adrian Richards	8:30 - 9:30 am	<a href="#">Australia Link</a>
UK	Virtual Webinar, Warwick	Noon	Dan Clark, George Dempsey, Jay Mangat, Abdul Basit	11 am - Noon	<a href="#">UK Link</a>
Ethiopia	Virtual Webinar, Addis Ababa	3 pm	Mulugeta Mideksa, MOH	12 Noon – 1 pm 1200 - 1300	<a href="#">Ethiopia Link</a>
Italy / Albania	Virtual Webinar, Rome/Tirana	3 pm	Lorenzo Leogrande AIIC Italy, Ledina Picari, MOH Albania	1 - 2 pm 1300-1400	<a href="#">Italy/Albania Link</a>
Brazil	Virtual Webinar, Sao Paolo	Noon	Lucio F. Brito, Saide Calil	2 – 3 pm 1400-1500	<a href="#">Brazil Link</a>
USA East	Virtual Webinar East Coast	Noon EDT	Petr Kresta, ACCE	4 - 5 pm 1600-1700	<a href="#">ACCE East Coast Link</a>
Peru	Virtual Webinar, Lima	1:00 pm	Rossana Rivas, Luis Vilcahuamán, CENGETS	6 -7 pm 1800-1900	<a href="#">Download Presentation Slides</a> <a href="#">Download Translated Summary</a> <a href="#">Watch Video</a>
USA West	Virtual Webinar, West Coast	Noon PDT	Petr Kresta, ACCE	7 - 8 pm 1900-2000	<a href="#">ACCE West Coast Link</a>
Mexico	Virtual Webinar, Mexico City	3 pm	Roberto Ayala	8 - 9 pm	<a href="#">Mexico Link</a>

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Cisco WebEx Meetings - Global Clinical Engineering Celebration Congress Beijing

Quick Start Info riunione Schermo di CMD + Nuova lavagna

Partecipanti

A causa della larghezza di banda limitata o delle condizioni del computer locale (ad esempio, uso di CPU o RAM), la funzionalità video non è attualmente disponibile. Il video riprenderà automaticamente quan...

CMD (Organizzatore)

ERNESTO IADANZA (me)

CMD (Organizzatore)

Anderson Ramos

David Smith

Johnlu1000

Julie

Chat

**首届国际临床工程日庆祝大会**  
The first GLOBAL Clinical Engineering Day celebration

**An International Perspective of the Current Status and Prospects of Global Clinical Engineering**

Dr. Yadin David  
Biomedical Engineering Consultants, LLC  
Asst. Professor, University of Texas School of Public Health  
Houston, Texas, USA  
Chairman, Health Technology Task Force, International Union for Physical and Engineering Sciences In Medicine (IUPESM)  
Board Member, Clinical Engineering Division, International Federation of Biological and Medical Engineering (IFMBE)

● Registrazione in corso...

Cisco WebEx Meeting Center

Quick Start Meeting Info Tom Judd's screen + New Whiteboard

CE Registration

- Not required for practice
- Voluntary programs within Engineers Australia – Chartered or Registered – not CE specific
- No certification schemes (ICC style) at any level

● Recording...

IFMBE\_CED @IFMBE\_CED · Oct 21

Dr. Adrian Richards #GlobalCEDay

Cisco WebEx Meeting Center

Quick Start Meeting Info Tom Judd's screen + New Whiteboard

Participants

Speaking: Julie Page

Ernesto Iadanza - IFMBE Chair (me)

Tom Judd (Host)

Adrian

Adrian Richards

Brett Ansted

David Smith

Gabriela Jimenez

Julie Page

Ledina

Marco Antonio De Román

Mike Denison

ritz

Shoo Chin Siah

Tom J

CE Remote and Regional-  
The Australian Way

Global Clinical Engineering Day  
21<sup>st</sup> October 2016

A public and private collaboration:

NORTHERN TERRITORY GOVERNMENT

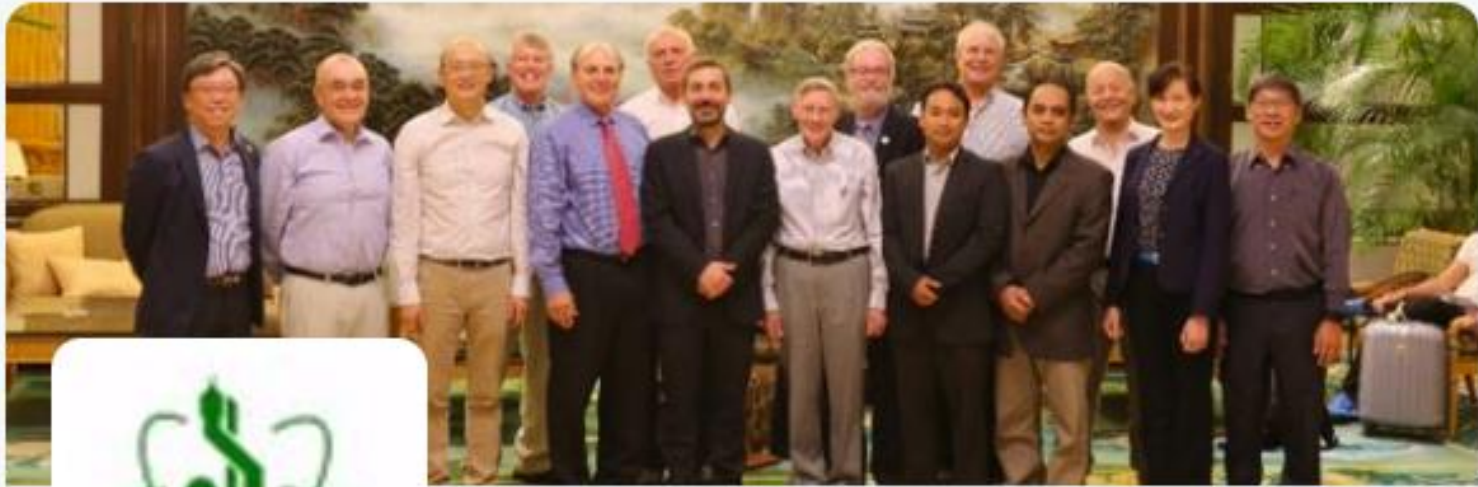
Medical Equipment Management  
A Quality Northern Territory Company!

● Recording...

IFMBE\_CED @IFMBE\_CED · Oct 21







**IFMBE\_CED**  
@IFMBE\_CED



Nottingham University Hospitals NHS Trust

### The Matrix

		Patient Benefit		
		-	0	+
Healthcare System Cost	-	??	✓	✓✓
	0	X	??	✓
	+	XX	X	??

Participants

Dan Clark

Ernesto Iadanza - IFMBE-CED Chair (me)

Tom Judd (Host)

Dan Clark

[Warwick] Technical Support (Luis)

Adrian Richards

andrew

Antonio Hernandez

National Institute for Health and Care Excellence

We are here for you



C. GRANIEL @calilograniel · Oct 21

#GlobalCEDay #GlobalCEDay\_Mx #Guadalajara #México @SOMIB\_Mx @IFMBE\_CED @udg\_oficial

IFMBE\_CED @IFMBE\_CED · Oct 21

Smart tool from Prof. Dan Clark: The Matrix #GlobalCEDay @WarwickEngineer bit.ly/2duGNRX



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# CED Contributions to the WHO -Third Global Forum on Medical Devices

May, 10-12 2017



**IFMBE****International Federation for Medical and Biological Engineering***A member of the International Union on Physical and Engineering Science in Medicine (IUPESM)*

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## Third WHO Global Forum on Medical Devices



Title: (Abstract)	Submitted by	reference ID	Date & Time	Notes
IFMBE/CED Role in Global BME/CE Recognition	Ernesto Iadanza, James Goh	HTM	Wednesday, May 10th, between 11:45 and 12:30	IFMBE CED
Improving Emergency Preparedness Through Hybrid, Interactive Training	Yadin David		Friday oral session between 13:30-15:00	HTTG & CED
CED Role in Linking Global HT Innovation/Standards	Yadin David, Tom Judd	HTM	Wednesday, May 10th, between 09:45 and 10:30	IFMBE CED
IFMBE-CED and Global CE-HTM Evidence Based Results	Ernesto Iadanza, Yadin David	HTM	Wednesday, May 10th, between 11:45 and 12:30	IFMBE CED
Using Data in Health Technology Management	Tracy Rausch, Kelly Flanagan, Yatin Mehta	ICT	Wednesday, May 10th, between 11:45 and 12:30	IFMBE CED
CE-HTM Education, Training, and Professional Credentialing	Tobey Clark, Anna Worm, Rossana Rivas, Yadin David, Mario Medvedev, James Wear	HTM	Wednesday, May 10th, between 9:15 and 9:45	IFMBE CED
IFMBE Clinical Engineering Division Global Professional Credentialing Project	Yadin David, Mario Medvedec, James Wear	HTM	Wednesday, May 10th, between 9:15 and 9:45	IFMBE CED
Global CE-HTM Success Stories	Tom Judd, Yadin David	HTM	Wednesday, May 10th, between 9:45 and 10:30	IFMBE CED
CE-IT Innovation: How to make care right	Mario Castaneda, Tom Judd, Jitendar Sharma	ICT	Wednesday, May 10th, between 11:45 and 12:30	IFMBE CED
CE-IT Cybersecurity Overview and Case Studies	Elliot Sloane	ICT	Wednesday, May 10th, between 11:00 and 11:45	IFMBE CED
CE, eHealth, and ICT Global Overview (CE-IT)	Elliot Sloane	ICT	Wednesday, May 10th, between 11:00 and 11:45	IFMBE CED
Optimizing CMMS for HTM	Bill Gentles, Martin Raab, Claudio Meirovich	HTM	Wednesday, May 10th, between 13:30 and 14:15	IFMBE CED





## IFMBE/CED Role in Global BME/CE Recognition

James Goh, PhD

IFMBE, President, Singapore

Ernesto Iadanza, PhD

IFMBE Clinical Engineering Division Chairman, Italy

Yadin David, Ed.D., C.C.E., FAIMBE, FACCE

Global CE Summit Chairman, USA



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## Biomedical Engineers

### 2149 Engineering Professionals Not Elsewhere Classified

This unit group covers engineering professionals not classified elsewhere in Minor Group 214: Engineering Professionals (excluding Electrotechnology) or in Minor Group 215: Electrotechnology Engineers. For instance, the group includes those who conduct research, advise on or develop engineering procedures and solutions concerning workplace safety, biomedical engineering, optics, materials, nuclear power generation and explosives.

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# Global CE Summit

## Profile of Biomedical Engineering Prepared for ILO Final Report

For submission to WHO on November 6, 2015



October 23, 2015

Shangri-La Hotel

Hangzhou, China

## ILO-ISCO 2008



### PART III

#### DEFINITIONS OF MAJOR GROUPS, SUB-MAJOR GROUPS, MINOR GROUPS AND UNIT GROUPS

9

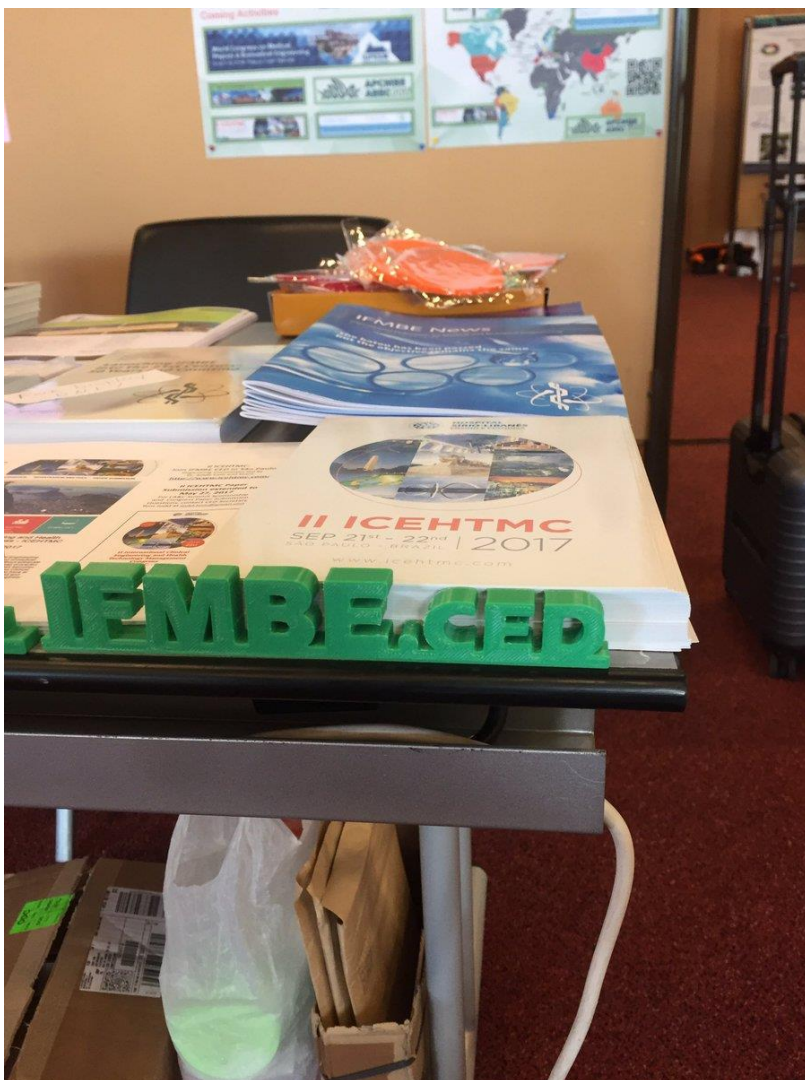


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Tampere, Finland





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Tampere, Finland

# CED IT tools



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# CED IT Tools

- WebEx (virtual meetings)
- Twitter (@IFMBE\_CED)
- FreedCamp (Project management)
- PHPList (Listserv)
- CEDGLOBAL.ORG (Website)
- Youtube (CED Videos)



WebEx







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[https://twitter.com/IFMBE\\_CED](https://twitter.com/IFMBE_CED)

<http://cedglobal.org>



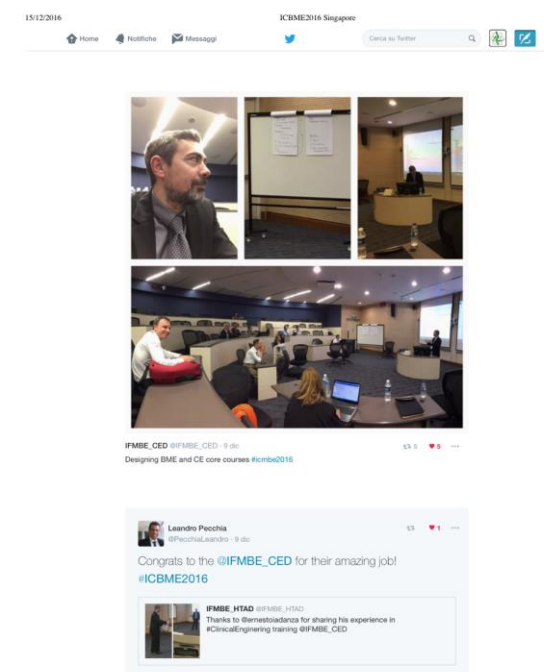
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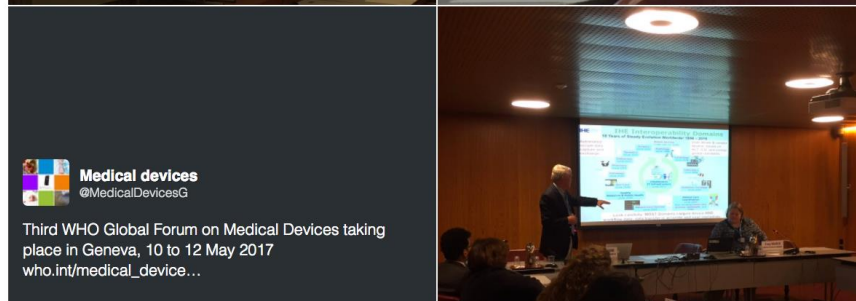


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# Twitter coverage of events (ICMBE2016 Singapore)





# Twitter coverage of events (WHO 3GFMD Geneva)





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# CED Awards



International Federation for Medical and Biological Engineering  
Clinical Engineering Division  
**2016 Clinical Engineering Outstanding Teamwork Award**

*The Ghana Health Service Clinical Engineering Team - Canadian  
Medical and Biological Engineering Society Collaboration*

For demonstrating excellence in the categories of  
Professional Collaboration, Impact and Leading Change  
In the field of Clinical Engineering

Ernesto Iadanza  
Chairman of the Clinical Engineering Division



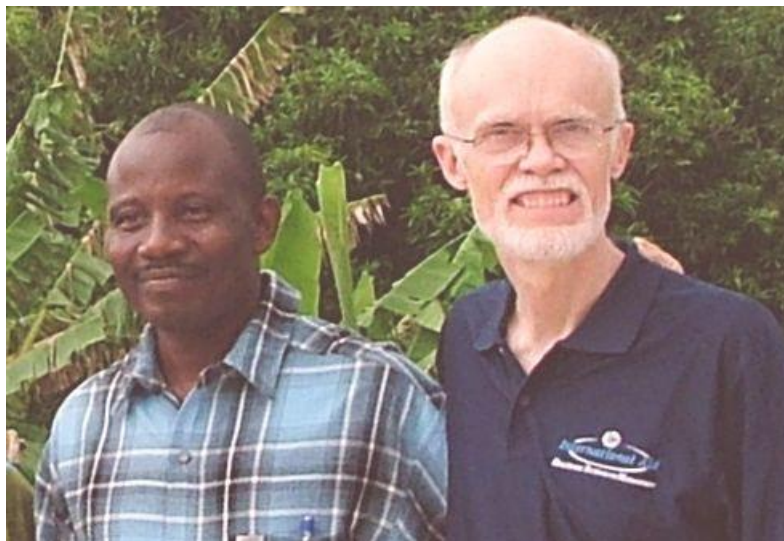
International Federation for Medical and Biological Engineering  
Clinical Engineering Division  
**2016 Clinical Engineering Outstanding Teamwork Award**

*The Clinical Engineering Team*

*Children's Hospital of Eastern Ontario, Ottawa, Canada*

For demonstrating excellence in the categories of  
Professional Collaboration, Impact and Leading Change  
In the field of Clinical Engineering

Ernesto Iadanza  
Chairman of the Clinical Engineering Division





# Global Clinical Engineering (CE) Summit

## Together We Can Make It Better

*Draft version 1.0*

Next meeting: September 23, 2017

Location: Siro-Lebanese Hospital, Sao Paolo, Brazil

Participation: By invitation

The Global CE Summit Task Force has continued to administer and guide the direction and the action that have been pursued since its inauguration at the 1<sup>st</sup> International Clinical Engineering and Health Technology Management Congress that took place in Hangzhou, China on October 21, 2015. Celebrating the Global CE day around the world on October 21<sup>st</sup> ever since.

Additional information, membership of the advisory group, and contact information can be found at the website: <http://global.icehtmc.com/aboutus>.



### Meeting Agenda

1. Recognition of members attending
2. Adoption of the agenda
3. Review of the initial plan and progress achieved
4. Status report from regions
5. Updating global challenges list
6. Updating list ranking
  - a. What are we doing well?
  - b. What we need to initiate or improve on?
7. Adopt projects and next action plan
8. Assign lead persons and time line
9. Next step
10. Adjourn



### International Clinical Engineering and Health Technology Management Congress - ICEHTMC

#### INVITATION to ICEHTMC 2017

Dear Friends and Colleagues:

None of the traditional engineering fields had to evolve so fast as Clinical Engineering. Though a relative new profession, it has to keep the pace with the evolution of medical technology. Today, many medical centers cannot operate at full capacity without adequate CE support. The progress of Clinical Engineering is so fast, that it creates a gap of practice and knowledge among the many regions around the world. This gap sometimes becomes quite wide due to the lack of communication among the regions since most of the Clinical Engineering meetings are local initiatives. Hence, it was of extreme importance to have an International gathering, exclusive for Clinical Engineers, where it could be informed and updated what is being developed in different parts of the world and how Clinical Engineer could help each other

## II Global Clinical Engineering Day October 21<sup>st</sup> , 2017


### IFMBE ENDORSEMENT REQUESTED in MAY 2016

#### IFMBE Endorsement for Global Clinical Engineering Day

25 May 2016

IFMBE/CED is requesting that IFMBE lead international efforts recognizing the Clinical Engineers' contributions to and role in improving world health and wellness programs by endorsing *Global Clinical Engineering Day (Global CE Day)*, <http://global.icehtmc.com>. The IFMBE can demonstrate worldwide leadership by adopting October 21<sup>st</sup> as the annual *Global CE Day* and issuing a declaration to that effect. In addition, the IFMBE can disseminate the occasion by posting the event and relevant materials on the first page of its website, in its publications such as the IFMBE NEWS and in communications to its constituent societies.

The *Global CE Day* is envisioned to be a worldwide celebration where events aim at educating and promoting awareness for the skills and expertise that CEs bring to delivering health services and programs all over the world from small villages like Zacapa, Guatemala through telehealth technology, to large metropolitans like Shanghai, China through health technology development and management programs.

Recognition of the challenges associated with the development, regulation, assessment, and deployment of safe, effective, appropriate, integrated and affordable technologies will help policy makers, government agencies, industry and academia to channel and prioritize their resources to help overcome these obstacles. The global collaboration that started last year has developed into a vibrant network of world-wide volunteers supported by the World Health Organization (WHO). The effectiveness of this network is evident by the white paper that is being submitted this week by the IFMBE to the WHO - World Health Assembly – *Health Technology Resource and Global Clinical Engineering Summit Success Stories* .

<http://global.icehtmc.com/publication/healthtechnology>. The paper consists of background, glossary and recommendations supported by evidence of 150 reports from 90 countries.

Support of other entities for *Global CE Day* will be explored with the coordination of IFMBE's leadership. The final benefactor of our efforts is improved world population health and wellbeing.



Respectfully Submitted 

On behalf of CED/Yadin David 





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## **World Congress on Medical Physics & Biomedical Engineering**

June 3–8, 2018, Prague, Czech Republic



## **Clinical Engineering**

- Health Technology Management
- Quality, Productivity and Benchmarking
- Telemedicine in Developing Countries
- Information and Communication Technologies and Clinical Engineering (CE-IT)
- International Standards and Regulations of medical devices
- Innovation and Design of Surgical and Medical Devices
- Disaster Preparedness for Clinical Engineers
- Clinical Process Analysis and Optimization
- Medical Devices Incident Analysis and Management
- Forensic Clinical Engineering and Risk Management
- Clinical Engineering Certification, Training and Education
- Decision Support Systems and Clinical Engineering
- National societies and international cooperation
- Clinical engineering success stories