



Sree Chitra Tirunal Institute  
for Medical Sciences and Technology

# ACEW-INDIA 2009



Indo-US Science and Technology Forum



American College of  
Clinical Engineering

## Advanced Clinical Engineering Workshop – India

October 5 – 10, 2009, SCTIMST, Thiruvananthapuram, India

**Dear Sir / Madam,**

I am pleased to inform you that **SCTIMST**, in collaboration with **American College of Clinical Engineering (ACCE), USA**, is organizing an **Indo-US Advanced Clinical Engineering Workshop (ACEW-India, 2009) in October (5<sup>th</sup> to 10<sup>th</sup>) 2009** in **Thiruvananthapuram**. The primary funding for this workshop has been made available by **Indo-US Science and Technology Forum (IUSSTF)**, New Delhi and the workshop is endorsed by **International Federation for Medical and Biological Engineering (IFMBE)**

ACCE has organized about 45 such ACEWs in many countries around the world over the last 18 years and **this is the first time that an ACEW is organized in India**. The focus of this workshop will be on **modern methods in Clinical Engineering and Healthcare Technology Management**, as currently adopted by western countries and their application to Indian situation. The participants to this workshop will be clinical / biomedical engineers working in hospitals, hospital administrators / managers, clinicians, academic and teaching faculty, students, NGO representatives and industry personnel.

I would like to request you to please encourage and support faculty from your organization to participate in this workshop. In view of limitation on the number of available seats and also to give representation to participants from all the professions, we have requested pre-registration through the workshop's website (<http://www.acew-india.in/registration.htm>). The confirmation will be sent by August 31<sup>st</sup>, 2009. Other important information is also available on the website and is also enclosed herewith.

We would also be grateful to have your kind support in the form of **sponsorship** towards this workshop. The souvenir of this workshop will be made available to the participants as well as will be widely circulated among various organizations, within India and also in the USA. The details regarding the sponsorships and advertisements are also enclosed for your kind information. You may please feel free to get in touch with me for any further information in this context.

**We look forward to your active support and contribution to ACEW-India, 2009 and also to our continued efforts towards establishing a strong Clinical Engineering profession in India.**

Thanking you and with warm regards,

Yours sincerely,

**Dr. Niranjana D. Khambete,**

Joint Organizing Secretary, ACEW-India, 2009  
Engineer 'F' (Instrumentation), SCTIMST, Thiruvananthapuram,

Workshop endorsed by  **IFMBE**

**Workshop Secretariat, ACEW-India (2009)**

Sree Chitra Tirunal Institute for Medical Sciences and Technology, Biomedical Technology Wing, Poojappura, Thiruvananthapuram 695012, INDIA  
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### BACKGROUND

It has been identified worldwide that there exists a strong need to develop strategies for effective and safe management of ever increasing use of technology in healthcare. Opportunities for improvement in healthcare technology broadly affect cost, patient safety, efficacy, utilization and quality assurance. In order to address this need, American College of Clinical Engineering (ACCE) in collaboration with World Health Organization (WHO) and other leading international NGOs, has conducted more than forty Advanced Clinical Engineering Workshops (ACEW) in different countries all around the world. The purpose of these workshops has been to contribute to the development and strengthening of institutional capacity in these countries and to also guarantee adequate technical support to the physical infrastructure and equipment used in healthcare delivery. **ACEW-India (2009) would be the first workshop to be organized in India.**

### OBJECTIVE

The objective of this workshop is to inform stakeholders of the health care system about modern clinical engineering professional practices and healthcare technology management strategies. The faculty from the US and India would attempt to achieve this objective through lectures, hands-on demonstrations and group discussions.

### SESSION TOPICS

- Medical Equipment Management
- Patient Safety, Risk and Quality Management
- Clinical Engineering Services Operations
- Financial Management for Equipment Procurement
- Clinical Engineering Training and Certification
- Medical Device Regulation
- Electromagnetic Compatibility Issues
- Electrical Safety of Medical Equipment
- Technology Management for Public Health
- Standards, Codes and Practices

### REGISTRATION FEE

Registration	Student	Academic	Corporate	Accompanying person
Regular rate	Rs.2500	Rs.5000	Rs.8000	Rs.1750
Before 31/08/09	Rs.2000	Rs.4500	Rs.7500	Rs.1500

Participants may register through the conference website. The seats for the workshop are limited and early registration is recommended. The registration fee and any other payments may be paid by Demand Draft or Banker's cheque in favour of **ACEW-India (2009)**, payable at Thiruvananthapuram, India.

### PATRONS

Prof. M.S. Ananth, Director, Indian Institute of Technology, Madras  
Prof. Suranjan Bhattacharji, Director, Christian Medical College, Vellore  
Prof. K. Radhakrishnan, Director, SCTIMST, Trivandrum

### ADVISORS

Dr. G. S. Bhuvaneshwar, Head, BMT Wing, SCTIMST, Trivandrum  
Prof. G. K. Suraishkumar, IIT Madras, Chennai  
Prof. Suresh Devasahayam, Christian Medical College, Vellore

### JOINT ORGANIZING SECRETARIES

Prof. Frank Painter, University of Connecticut, USA  
Dr. Niranjan D. Khambete, SCTIMST, Thiruvananthapuram

### US FACULTY

Dr. Binseng Wang, ARAMARK, Clin. Tech. Services, Inc., NC  
Prof. Joseph Dyro, President, Biomedical Resource Group, NY  
Dr. Thomas Bauld, National Center for Patient Safety, MI  
Prof. Tobey Clark, University of Vermont, VT  
Prof. Steven Grimes, VP, Technology in Medicine, Inc., MA  
Mr. Bhavesh Patel, Washington Hospital Center, DC

### INDIAN FACULTY

Dr. G. S. Bhuvaneshwar, SCTIMST, Thiruvananthapuram  
Dr. Giridhar Gyani, CEO, Quality Council of India & NABH  
Prof. Sanjay Oak, Dean, KEM Hospital Mumbai,  
Dr. Uma Nambiar, Director, S. L. Raheja Hospital, Mumbai  
Dr. Arun Bal, Surgeon and President, ACASH, India  
Prof. S. S. Shastri, Preventive Oncology, Tata Mem. Hosp., Mumbai  
Mr. Sivaram Rajagopalan, SHIVA CONSULTANTS LLP, Coimbatore

### ABOUT THE INSTITUTE

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) is an autonomous institution setup by an act of Indian Parliament. The Biomedical Technology (BMT) Wing of SCTIMST has been involved in the research and development of medical devices and biomaterials for over two decades. A wide range of medical devices have been successfully developed and commercialized by the Institute, thus making them affordable to the patients of the country. It has gained extensive expertise and established facilities required for this development and thus, played a pioneering role in the development of medical device industry in India.

Recently, SCTIMST, Indian Institute of Technology, Madras and Christian Medical College, Vellore, have jointly launched a M. Tech. (Clinical Engineering) Programme, also a first of its kind in India.

Workshop endorsed by  IFMBE

### Workshop Secretariat, ACEW-India (2009)

Sree Chitra Tirunal Institute for Medical Sciences and Technology, Biomedical Technology Wing, Poojappura, Thiruvananthapuram 695012, INDIA  
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### ACEW-India October 5-10 2009

#### Teaching Plan

	05-Oct-09	06-Oct-09	07-Oct-09	08-Oct-09	09-Oct-09	10-Oct-09	
TIME	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
8:00	<b>REGISTRATION</b>	Maintenance	Financial Management	Regulation of Medical	CASE STUDY: TBD	Visit to SCTIMST's hospital and Biomedical Technology Wing	
8:30	<b>Workshop Overview</b>	Management II: Maintenance		Devices			
9:00	Current State of CE in the USA	Equipment Replacement Planning		Customer Relationship			
9:30	The Medical Equipment Management Program - An Overview						
10:00	<b>COFFEE BREAK</b>						
10:30	Equipment Planning, Acquisition, Installation & Acceptance Testing	CE Benchmarking	Staff Management & Professional Development	Equipment Donation	CASE STUDY (cont)		
11:00	Special topic I: human factors	Facilities Management	Vendor Management	Management of External Services			
11:30			Electromagnetic compatibility (EMI)				
12:00	<b>LUNCH</b>						
1:00	Need for CE in India: Perspective of Medical Professionals	Regulation and licensing of healthcare services in India	Education and training of biomedical and CE professionals in India	Technology and it's management for rural health, public health and population based health programmes	Report of Case Study by Participants		
1:30	Need for CE in India: Perspective of Healthcare Administrators	Regulation of medical devices in India	CE profession in India: Perspective of medical equipment manufacturers	Patient safety and health care technology Indian scenario			
2:00	Maintenance Management I: Inventory Classification	Maintenance Management III: Performance Monitoring &	Standards, Codes & Regulations	Patient Safety & Risk Management			
2:30				<b>Workshop Review</b>			
3:00	<b>COFFEE BREAK</b>						
3:30	IT & networking	Electronic Alerts: For Patient Safety and Wellness Programs.	Equipment Inventory Control/Management	Patient Incident Investigation	Participant Feedback		
4:00			Special topic II: Future of CE Profession		Comments from medical professionals and health administrators		
4:30	<b>Review &amp; discussions</b>	Special topic III: Telemedicine and/or wireless telemetry and patient & equipment tracking	Routine Electrical safety testing	User training	<b>CLOSING CEREMONY</b>		
5:00	<b>OPENING CEREMONY</b>	<b>Review &amp; discussions</b>	<b>Review &amp; discussions</b>	<b>Review &amp; discussions</b>			
5:30	<b>ADJOURN</b>						

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### SPONSORSHIP OPPORTUNITIES

All organizations are most welcome to sponsor the Workshop. Details are as follows. Facilities will be provided for the Sponsors to display their products and information and also they will be eligible for special privileges such as free registration for the delegates, one full page multicolor advertisement in the souvenir. Please, contact the Workshop Secretariat for any further details.

#### Level of Sponsorship

**Gold sponsor** - Rs. 2 lakhs / US\$ 4000 for overseas

Benefits: Logo in the website and all the printed communications (Proceedings and souvenir). A two page profile of the organisation in souvenir and full page color advertisement in the souvenir. Announcement during the inauguration, one free exhibition stall. Free Registration for three delegates.

**Silver sponsor** - Rs. 1.5 lakhs / US\$ 3000 for overseas

Benefits: Logo in website and all the printed communications (Proceedings and souvenir). Full page B&W advertisement in the souvenir. One free exhibition stall. Free Registration for two delegates.

**Dinner** - Rs. 1 lakhs / US\$ 2000 for overseas

One free exhibition stall. Free Registration for two delegates.

**Lunch** - Rs. 75,000 / US\$ 1500 for overseas

Banner will be displayed at the serving counter. One free exhibition stall. Free registration for two delegates.

**Tea/Coffee** (per day) - Rs. 7500 / US\$ 150 for overseas

Banner will be displayed at the serving counter.

**Technical Session** - Rs. 20000 / US\$ 400 for overseas

Announcement at the beginning and end of the session. Banner on the stage during the session. Free Registration for one delegate.

**Exhibition stall** - Rs. 15000 / US\$ 300

### ADVERTISEMENTS

A Souvenir will be published to commemorate the event. Advertisements are also invited for inclusion in the souvenir. Souvenir will be widely circulated among the professionals and industries in India and abroad.


#### Details and fee

Paper size: A4 Print area 17 x 24 cm

Back outside (cover)	color	- Rs. 35,000/-
Back inside (cover)	color	- Rs. 25,000/-
Front inside (cover)	color	- Rs. 25,000/-
Full page (inside)	color	- Rs. 15,000/-
Full page (inside)	B&W	- Rs. 10,000/-
Half page (inside)	B&W	- Rs. 5,000/-

### PAYMENT

Payments can be made by a Demand Draft or Banker's cheque in favor of 'ACEW-India (2009)' payable at Thiruvananthapuram, India.

Workshop endorsed by  IFMBE

#### Workshop Secretariat, ACEW-India (2009)

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