

ICEW - INDIA 2011

International Clinical Engineering Workshop – India

February 20 – 25, 2011, College of Engineering, Pune

Dear Sir / Madam,

We are pleased to inform you that **College of Engineering (COEP), Pune** and **Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram**, are organising **International Clinical Engineering Workshop (ICEW - India, 2011) in February, 2011 (20th to 25th) in Pune**. This is the second of the series of Workshops launched in Thiruvananthapuram in **October 2009** with the first **Indo-US Advanced Clinical Engineering Workshop (ACEW-India, 2009)**.

The main aim of **ICEW-India, 2011** will be to **highlight the urgent need for establishing a strong Clinical Engineering Profession in India**. This Workshop will serve as a **common platform for experts and professionals to discuss important challenges faced by the CE profession and identify possible ways to move forward**. This Workshop will also include **training modules**, which will enable Clinical Engineers (CEs) working in hospitals to learn about **modern methods in Clinical Engineering Practice** and thus, upgrade their knowledge and skills, and build competences in essential areas. In addition to CEs, we also look forward to participation from hospital administrators / managers, clinicians, academic and teaching faculty, students, NGO representatives and industry personnel who will bring multiple viewpoints.

I would like to request you to please encourage and support faculty from your organisation to participate in this workshop. In view of limited 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.icew-india.in/registration.htm>) before **December 20th, 2010**. The confirmation will be sent by January 1st, 2011. Other important information is also available on the website and is also enclosed herewith.

We are pleased to also inform you that one of the best medical teaching institutions of the country, **Armed Forces Medical College, Pune**, and three leading members of the rapidly growing healthcare sector of the country, **Fortis Healthcare Ltd, Max Healthcare Institute**, and **Deenanath Mangeshkar Hospital and Research Centre, Pune**, will be supporting this Workshop as **Academic Partners**.

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

We look forward to your active support and contribution to ICEW-India, 2011 and also to our continued efforts towards establishing a strong Clinical Engineering profession in India.

Thanking you and with warm regards,

Yours sincerely,

Uttam Chaskar,

Assistant Professor,
Department of Instrumentation & Control,
College of Engineering, Pune

Niranjan D. Khambete

Engineer 'F' (Instrumentation),
Biomedical Technology Wing,
SCTIMST, Thiruvananthapuram

Workshop Secretariat, ICEW-India (2011)

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BACKGROUND

The use of advanced technology is an essential requirement of the modern medical practice and presence of well trained Clinical Engineers as integral members of the clinical and managerial team is needed to ensure safe, effective and optimal use of healthcare technology. Therefore, development of a strong Clinical Engineering Profession becomes a top priority for any country which intends to provide high quality and safe healthcare to its citizens.

Keeping this requirement in mind, a series of Workshops with a strong focus on the needs of Clinical Engineering Profession in India was launched in October 2009. The first Workshop in this series was the Advanced Clinical Engineering Workshop (ACEW-India, 2009), organised in Thiruvananthapuram by Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) in collaboration with American College of Clinical Engineering (ACCE). This initiative was funded by IUSSTF and WHO and was endorsed by leading international and national healthcare organisations such as IFMBE, QCI, NABH and ACASH. The Workshop had a very good response from the participants, the majority being Clinical Engineers from different parts of the country.

We are pleased to announce the second Workshop of this series, the **International Clinical Engineering Workshop – India, 2011 (ICEW-India, 2011)** to be organised between **20th and 25th of February, 2011 in College of Engineering, Pune.**

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 India and beyond will attempt to achieve this objective through lectures, hands-on demonstrations and group discussions. This Workshop will also serve as a common platform for Clinical Engineers and other professionals to address the challenges faced by the Clinical Engineering Profession in the country and find solutions.

WORKSHOP THEMES

The main themes of this Workshop are

- Medical Equipment Management
- Patient Safety, Risk, Quality Management and Regulation
- Clinical Engineering Education, Training and Certification
- Innovation in Healthcare Technology

The special topics covered in this Workshop will include Facilities Management, Financial Management for Equipment Procurement, Electrical Safety of Medical Equipment, Healthcare Technology Management in Public Health, Disaster Management, Energy Efficiency, Green Initiative, IT in Healthcare and 3 G Technologies. An opportunity for hands-on training on test equipment and equipment management software are special highlights of this Workshop.

PAPER PRESENTATION AND POSTER SESSIONS

Participants are encouraged to submit abstracts for oral and poster presentation before **December 20th 2010.**

PATRONS

Prof. A. D. Sahasrabudhe, Director, College of Engineering Pune
Prof. K. Radhakrishnan, Director, SCTIMST, Trivandrum
Lt Gen DP Vats, SM, VSM Director and Commandant, AFMC, Pune
Dr. Girdhar Gyani, CEO, Quality Council of India & NABH
Dr. W. B. Tayde, Director, DMER Mumbai
Mr. Bhavdeep Singh, CEO, Fortis Healthcare Ltd.
Dr. Dhanjay Kelkar Medical Director, DM Hosp. & Research Centre Pune
Prof. G. Ravindran, President, BMESI
Prof. C. P. Gadgil, Former HOD, Instrumentation & Control, COE Pune
Dr. S. S. Sundararajan, Managing Director, Altitus Technologies Pune

ADVISORS

Dr. Pawan Kapoor, Prof. and Head, Dept. of HA, AFMC Pune
Dr. G. S. Bhuvaneshwar, SCTIMST, Thiruvananthapuram
Mr. K. Vijaykumar, HOD, Div. Clinical Engineering, SCTIMST
Dr. Uma Nambiar, Zonal Director Fortis Healthcare Ltd and
CEO, S. L. Raheja Hospital, Mumbai
Dr. Vinayak Desurkar, Senior Anesthesiologist, DMH Pune
Dr. Shubnum Singh, Max Healthcare Institute Ltd. New Delhi.
Prof. B. B. Ahuja, Deputy Director, COE Pune
Prof. S. D. Agashe, Dean Academics, College of Engineering Pune
Dr. Prakash Dolas, Advisor, RG S&T Comm. Govt. of Maharashtra

JOINT ORGANIZING SECRETARIES

Mr. Uttam Chaskar, Dept. of Instrumentation & Control, COEP, Pune
Dr. Niranjana D. Khambete, Engg. 'F', SCTIMST, Thiruvananthapuram

UK FACULTY

Dr. David Porter, World Bank and WHO Advisor on Clinical Engineering
Prof. Brian Brown, Emeritus Professor, University of Sheffield, UK
Prof. Alan Murray, Academic Director, Univ. of Newcastle, UK
Mr. Andrew Gammie, Biomed. Engg. Director, Fishtail Consulting Ltd, UK
Ms. Victoria Gerard, Biomed. Engg., Engineers Without Borders, UK

INDIAN FACULTY

Dr. U. B. Mishra, Dept. of HA, AFMC Pune
Dr. Mohan Gupte, Ex- Director, ICMR
Mr. J. Murali, Sindoori Faber Management Services Pvt. Ltd, Chennai
Dr. Sajeev Sood, Command Hospital, Jodhpur
Mr. Anil Nagpal, Maxhealthcare New Delhi.
Mr. T. Srinivas, Executive Engineer (Biomedical), APVVP, Hyderabad
Prof. Sanjay Oak, Dean, KEM Hospital Mumbai,
Prof. A. P. Chaukar, Rajiv Gandhi Science & Technology Mission
Mr. Jayant Bansod, Head Biomedical, KEM Mumbai
Dr. Arun Bal, Surgeon and President, ACASH, India
Prof. S. S. Shastri, Preventive Oncology, Tata Mem. Hosp., Mumbai

Workshop Secretariat, ICEW-India (2011)

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REGISTRATION FEES

| Registration | Student | Academic | Corporate | Accompanying person* |
|---------------------|---------|----------|-----------|----------------------|
| Regular rate | Rs.2750 | Rs.5500 | Rs.8250 | Rs.2000 |
| Before 15 Jan. 2011 | Rs.2500 | Rs.4750 | Rs.7750 | Rs.1750 |

*Accompanying person will typically be a spouse who would be most welcome for lunch and dinner at the Workshop venue.

In view of the limited 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.ncew-india.in/registration.htm>) before December 15th, 2010. The confirmation will be sent by January 1st, 2011.

The registration fee and any other payments may be paid by Demand Draft or Banker's cheque in favour of **ICEW-India (2011)**, payable at Pune, India.

ABOUT THE HOST INSTITUTES

College of Engineering, Pune (COEP) was established in the year 1854 and is one of the oldest and premier engineering institutions in the country. It is the Lead Centre under the Technical Education Quality Improvement Programme (TEQIP) assisted by the World Bank. The college was also a participant of the Canada India Industry Institute Linkage Programme. COEP is considered amongst the top engineering colleges in the country in the various independent surveys on technical education. The institute offers B. Tech, M. Tech & PhD programmes and need based Short Term Training Courses. The number of enrolled student for regular degree courses is around 3000.

Department of Instrumentation & Control started in the year 1965 with the support from Central Government. The 41st batch of UG students will be turned out in the current academic year. The PG programme was launched in the year 2000. The UG program offered by the department is accredited by the National Board of Accreditation (NBA) for 5 years.



College of Engineering,
Pune

The department boasts of qualified, experienced and dedicated faculty to impart fundamental and applied knowledge in the field of Process Control and Biomedical Instrumentation. The department focuses on preparing the students to meet global industrial challenges and making them aware of the recent advances in the technological field.

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) is an Institute of National Importance established by an act of the 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.

Biomedical Engineering Society of India (Pune Chapter) was established in 1968. The Head Quarter of BMESI was with the Department of Instrumentation and Control, College of Engineering Pune for about 20 years prior to present Head Quarter. BMESI membership exceeds 750 individual life members and more than 25 Institutional life members. The chapter has a healthy mix of members of practicing doctors, engineering professional, academicians and industry personnel. The activities of BMESI Pune Chapter include:

- Dr. N. G. Chaphekar Memorial Oration
- Workshops for the students and staff
- BMESI Newsletter – Engmednews
- Symposia on trends in Medical Instrumentation



Biomedical Technology Wing, SCTIMST
Thiruvananthapuram

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Workshop Programme

| February 20, 2011, Sunday, 5.30 p.m. ICEW-India, 2011, Inauguration | |
|---|--|
| February 21, 2011, Monday, 9.30 a.m. to 5.45 p.m. An Overview of CE Profession | |
| A1 | Overview of the Workshop |
| A2 | Clinical Engineering (CE) Profession - An International Scenario |
| A3 | CE Profession in the UK |
| A4 | CE Profession in India - An Overview |
| A5 | CE and Healthcare Technology Management in Defence Services |
| A6 | Panel Discussion - CE Profession in India - The way forward |
| A7 | |
| February 22, 2011, Tuesday, 9.30 a.m. to 5.45 p.m. Equipment Testing, R&D | |
| B1 | Medical Equipment testing and calibration, Electrical Safety Testing, International Safety Standards, Electrosurgery Equipment Testing, Ventilator Testing (Training Session) |
| B2 | |
| B3 | |
| B4 | Clinical Engineers as Innovators |
| B5 | Biomedical Technology Development - An Indian Scenario |
| B6 | Panel Discussion - Promotion of indigineous technology development in India |
| B7 | |
| February 23, 2011, Wednesday, 9.30 a.m. to 5.45 p.m. Pateint Safety and Med. Reg. | |
| C1 | Medical Device Safety and Risk Management |
| C2 | Pateint Safety and healthcare technology - Indian Scenario |
| C3 | Human Factors and User Training |
| C4 | Medical Device Regulation and Status in India |
| C5 | Accreditation and Regulation of Healthcare Systems |
| C6 | Panel Discussion - Adverse event reporting and Patient Safety Act - A need for India |
| C7 | |
| February 24, 2011, Thursday, 9.30 a.m. to 5.45 p.m. CE in healths system, Edu., Training, Cert. | |
| D1 | CE in government based healthcare system in India - Past and future |
| D2 | CE and Tech. Mangement at Min. of Health |
| D3 | Appropriate Healthcare Technology for Developing Countries |
| D4 | Education and training and Certification of CEs in the UK |
| D5 | Education and training and the need for Certification of CEs in India |
| D6 | Panel Discussion on Edu. Training and Cert of CEs in India - The way forward |
| D7 | |
| February 25, 2011, Friday, 9.30 a.m. to 5.45 p.m. Med. Eqp. Management | |
| E1 | General Principles of Management, Medical Equipment Management, Planing, Acquisition, Installation, Maintenance Management, Inventory Control, IT in hospitals, Hospital Facilities Management (Training Session) |
| E2 | |
| E3 | |
| E4 | |
| E5 | |
| E6 | Concluding Session and Valedictory Function |
| E7 | |

Time Schedule

| | SUN | MON | TUE | WED | THU | FRI |
|----------|---------------------|--|--------------|----------------------|--------------|--------------|
| | 20 Feb. 2011 | 21 Feb. 2011 | 22 Feb. 2011 | 23 Feb. 2011 | 24 Feb. 2011 | 25 Feb. 2011 |
| 8:30 AM | | Breakfast | | | | |
| 9:00 AM | | A1 | B1 | C1 | D1 | E1 |
| 9:50 AM | | A2 | B2 | C2 | D2 | E2 |
| 10:40 AM | | Tea | | | | |
| 11:00 AM | | A3 | B3 | C3 | D3 | E3 |
| 11:50 AM | | A4 | B4 | C4 | D4 | E4 |
| 12:40 PM | | Lunch | | | | |
| 1:30 PM | | Oral Presentation by the participants (15 mins for each presentation) | | | | |
| 3:15 PM | Registration | Poster Session and Tea | | | | |
| 3:45 PM | | A5 | B5 | C5 | D5 | E5 |
| 4:35 PM | | A6 | B6 | C6 | D6 | E6 |
| 5:25 PM | | A7 | B7 | C7 | D7 | E7 |
| 5:30 PM | Inauguration | | | Cultural Prg. | | |
| 7:30 PM | Wkshp. Dinn. | | | Dinner | | |

(This is an overview and the detailed programme will be made available on the website)

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SPONSORSHIP REQUEST

We would like to request our **Industrial partners** to actively support our efforts by providing generous **sponsorships and advertisements**. The details are as below and for any further details please, contact the **Workshop Secretariat**.

SPONSORSHIP OPPORTUNITIES

Gold sponsor - Rs. 2.25 lakhs / US\$ 4500

- Logo on the website and all the printed communications
- **Announcement during the INAUGURATION**
- Two page profile of the organisation in the Souvenir
- Full page colour advertisement in the Souvenir.
- One free exhibition stall.
- Free Registration for two delegates.

Silver sponsor - Rs. 1.75 lakhs / US\$ 3500

- Logo on the website and all the printed communications.
- Full page colour advertisement in the Souvenir.
- One free exhibition stall.
- Free Registration for two delegates.

Dinner - Rs. 1.25 lakhs / US\$ 2500 for overseas

- Banner will be displayed at the serving counter
- One free exhibition stall
- Free Registration for one delegate.

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

- Banner will be displayed at the serving counter
- One free exhibition stall
- Free Registration for one delegate.

Session (half day) – Rs. 50,000 / US\$ 1000 for overseas

- Banner displayed on the stage during the session
- One free exhibition stall

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 cm by 24 cm)

Back outside (cover) color - Rs. 40,000/-
Back inside (cover) color - Rs. 35,000/-
Front inside (cover) color - Rs. 30,000/-
Full page (inside) color - Rs. 20,000/-
Full page (inside) B&W - Rs. 15,000/-
Half page (inside) B&W - Rs. 10,000/-

Exhibition stall - Rs. 25,000 / US\$ 500

Tea/Coffee (per tea break per day) - Rs. 7500/-

- Banner will be displayed at the serving counter.

PAYMENT

Payments can be made by a Demand Draft or Banker's cheque in favor of '**ICEW-India (2011)**' payable at **Pune, India**.

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