



# 10<sup>th</sup> International Conference on Electromagnetic Interference & Compatibility INCEMIC- 2008 and Workshop



24-27 Nov. 2008, Bangalore, India

Theme : *Electromagnetic Spectrum Control*

Organised by:  
Society of EMC Engineers (India)  
www.semcei.org

### Dates & Venue

**Conference:** NIMHANS Convention Centre,  
26-27 Nov. 08 NIMHANS, Hosur Road,  
Bangalore – 560 029, India

**Workshop :** Electronics & Radar Development  
24-25 Nov. 08 Establishment (LRDE),  
CV Raman Nagar,  
Bangalore – 560 093, India

### Workshop highlights

On **24-25 November 2008** a two day **Workshop cum Tutorials** on the latest trends in the field of EMI & EMC will be conducted by expert faculty.

The aims & objectives of the workshop are to give hands-on practical & design oriented technical know-how to the participants based upon case studies. It will also be a platform where the participants will have an in-depth exposure to the state-of-the art cutting edge technologies designed & developed over the years in EMC Technology. The workshop is designed to give a new dimension so as to implement EMC Techniques in Military & Civilian systems right from the design, development & production stages. The topics and tentative schedule is given below.

### 24 – 25 Nov. 2008

**Design for EMC** by **Elya B. Joffe**, Vice President of Engineering, KTM Project Engineering, Israel, President of IEEE EMC Society

**High Power Electromagnetic (HPEM)** by **Prof. Michel Ianoz**, Honorary Professor, Swiss Federal Institute of Technology, Lausanne, Switzerland

**Human Exposure to Electromagnetic Radiation** by **Christoph Muehlhaeuser**, Dipl.-Ing. (FH) Director International Sales & Marketing, Narda Safety Test Solutions GmbH, Germany

**Shielding Theory and Design** by **Michael J. Oliver**, Vice President of Electrical / EMC Engineering, MAJR Products Corporation, US

**Spectrum Management** by **William Albert Luther**, Consultant to NASA, US  
Former Chief of the FCC Radio Communication Policy Branch

### Sponsors

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### Conference highlights

The 10<sup>th</sup> International Conference on Electromagnetic Interference and Compatibility - INCEMIC 2008 and Workshop is organised by Society of EMC Engineers, India [SEMCE(I)], co-sponsored by Ministry of Communication and Information Technology (MIT), Defence Research and Development Organisation (DRDO), Indian Space Research Organisation (ISRO), Department of Atomic Energy (DAE), Council of Scientific and Industrial Research (CSIR). The response for call for papers is overwhelming with more than 130 abstracts received. About 70 papers will be orally presented in various sessions. Rest of the papers will appear in poster sessions. At the end of the technical sessions, a panel discussion in Accreditation and Calibration Issues of EMI/EMC Test Facilities is also planned.

### 26 Nov. 2008 (Wednesday)

KEYNOTE ADDRESS: **“EMC from Garbage of Electronics to Global Intersystem Compatibility – Final”** by **Elya B. Joffe**, President of IEEE EMC Society

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For more information and updates visit [www.semcei.org](http://www.semcei.org).

Conference, Workshop & Registration Information

## 24 Nov. 2008 (Monday)

- 0830 hrs Registration
- 0900 hrs Workshop Inauguration
- 1000 hrs onwards **Spectrum Management**  
by **William Luther**
- Spectrum management for science services
  - Spectrum management for space missions
  - Spectrum management on RF radiation hazard

### High Power Electromagnetic (HPEM) by **Prof. Michel Ianoz**

- Classification of the HPEM
- Radiated and Conducted HPM environments
- HPM Sources
- HPEM effects on devices and systems
- Mitigation of HPEM effects

### Shielding Theory and Design by **Michael J. Oliver**

- Fundamentals of Shielding Integrity
- Practical shielding theory
- Aperture design for Electromagnetic shielding
- Aperture attenuation modeling program
- Honey vent panels design
- Galvanic compatibility

## 26 Nov. 2008 (Wednesday)

- 0830 hrs Conference Registration
- 0900 hrs Conference Inauguration
- 1030 hrs Exhibition Inauguration
- 1030 hrs onwards High Tea, Invited Talk, Technical Sessions,  
Lunch Break, Tea Break, Cultural Programme,  
Dinner

## 27 Nov. 2008 (Thursday)

- 0845 hrs Tea
- 0900 hrs onwards Invited Talk, Technical Sessions, Tea Break,  
Lunch Break
- 1630 hrs Panel Discussion “**Accreditation and Calibration  
Issues of EMI/EMC Test Facilities**”

## Sponsorship

Excellent sponsorship opportunities to enhance the visibility of the sponsors and showcase the goodwill towards the EMI/EMC community are available. Sponsorship will be acknowledged in [www.semcei.org](http://www.semcei.org) website, in all publications and in publicity materials in addition to other compliments.

**Platinum:** Rs. 5,00,000/- ( US \$12500/-)

(2 Stalls + 5 Delegates + 1 Front Inside Cover Ad in Souvenir as compliments)

**Diamond:** Rs. 3,00,000/- (US \$7500/-)

(1 Stall + 3 Delegates + 1 Back Outside Cover Ad in Souvenir as compliments)

**Gold:** Rs. 2,00,000/- (US \$5000/-)

(4 Delegates + 1 Full Page Ad in Souvenir as compliments)

**Silver :** Rs. 1,00,000/- (US \$2500/-)

(2 Delegates as compliments)

## 25 Nov. 2008 (Tuesday)

- 0900 hrs onwards **Design for EMC**  
by **Elya B. Joffe**
- EMI Diagnostic principles with case studies
  - “Who is afraid of Maxwell’s Equations?” – A practical and painless approach for EMC Engineers
  - When not obstructed current always follows the path of Least Impedance

### Human Exposure to Electromagnetic Radiation by **Christoph Muehlhaeuser**

### High Power Electromagnetic (HPEM) by **Prof. Michel Ianoz**

(continuation)

## Exhibition (26-27 Nov. 2008)

A technical exhibition is being organised during the conference. The exhibition of EMI/EMC/RF-Microwave Components, EMI/EMC Test Instrumentation and facilities and analytical electromagnetic tools for EMC design will be one of the major event of INCEMIC-2008. Exhibitors are welcome to participate wholeheartedly in this event.

Key decision makers, recommending authorities, design engineers and scientists from DRDO Labs, Ministry of Communication and Information Technology, ISRO, BARC, CSIR labs, Academic Institutions, Defence Officers from Army, Airforce & Navy, PSUs and Private enterprises will be visiting the exhibition.

24 stalls each of 9 sq mt. are planned in ground floor and equal numbers are planned in the first floor.

For details on space for exhibition and also for advertisement in the souvenir, please contact Mr. PR Vijayan by email [pr\\_vijayan@emisindia.com](mailto:pr_vijayan@emisindia.com).

## Rates

Rs. 50,000/- per Stall for the Indian Companies  
US \$ 1250/- per Stall for the Companies from Abroad  
Taxes, if any applicable will be charged extra

Visit our website to see a current listing of exhibitors.

Exhibitor Schedule	
<b>25 Nov. 2008 (Tuesday)</b>	
1430 to 1700 hrs	Exhibitor Registration
1430 to 1700 hrs	Exhibitor Move-in
<b>26 Nov. 2008 (Wednesday)</b>	
1030 to 1045 hrs	Exhibition Inauguration
<b>27 Nov. 2008 (Thursday)</b>	
1700 to 1800 hrs	Exhibitor Move-out

## Souvenir

A souvenir containing program schedule, invited articles, message from dignitaries, advertisements, etc will be published. This will serve as an excellent medium for advertising your products and core competency among high profile professionals who are key decision makers. This souvenir is meant for free distribution among all participants and invitees.

Full Page Colour: Rs. 20,000/- (US \$500/-)

Half Page Colour: Rs. 10,000/- (US \$250/-)

## Accommodation and Transport

Accommodation and Transport for delegates as a rule are not provided by the organisers. However common pool transport to selected destinations will be provided from the venue at the end of the programme of each day. Sponsored delegates from Govt. organisations are requested to use their own official channel for securing guest house accommodation. Details of hotels near the conference venue is available on the website.

### Patrons

<b>Mr. M Natarajan</b> SA to RM Dept. of Defence R&D	<b>Mr. G Madhavan Nair</b> Chairman Dept. of Space	<b>Mr. Jainder Singh, IAS</b> Secy. to Govt. of India Ministry Commn. & IT
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### Organising Committee

#### Chairman

Mr. S Varadarajan  
directorlrde@vsnl.net

#### Convener – Conference

Dr. DC Pande  
pande.dc@gmail.com

#### Convener – Workshop

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bsubbarao@ieee.org

#### Secretary

Mr. E Keshav  
k\_shav2000@yahoo.com

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Mr. Dhiraj Kumar Singh  
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#### Exhibition Chair

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pr\_vijayan@emisindia.com

#### Technical Programme

Dr. M Joy Thomas  
jtm@ee.iisc.ernet.in

#### Publication Chair

Mr. V Jithesh  
incemic2008@gmail.com

### Advisors

Prof. RP Shenoy, Bangalore  
Dr. KN Sankara, ISAC, Bangalore  
Mr. N Sitaram, DRDO, HQ, New Delhi  
Dr. Surendra Pal, ISAC, Bangalore  
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Capt. SK Tiwari, NEC Mumbai  
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Dr. S Gopal, WS Test Systems, Bangalore  
Mr. SS Bothra, Microtek, Chennai  
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Dr. A Bashir, Tata Power, Mumbai  
Mr. PNAP Rao, Honeywell, Bangalore  
Mr. IK Sharma, MIT, New Delhi  
Mr. S Rajappa, Siepel (India), Bangalore

### International Co-ordinator

Ms. Janet O' Neil, ETS-Lindgren, USA  
Janet.O'Neil@ETS-Lindgren.com



## International Conference on Electromagnetic Interference & Compatibility INCEMIC-2008 and Workshop

### REGISTRATION FORM

Name .....

Designation .....

Organisation .....

Mailing Address .....

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Phone ..... Fax .....

Email .....

Please tick wherever applicable.

I/We would like to participate in the

Workshop on 24-25 Nov. 2008

Conference on 26-27 Nov. 2008

(Please attach additional page with names for more than one delegate)

I/We would like to be a:

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I/We am/are enclosing a Cheque\* (Local) Demand

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Cash/Cheque/DD No. ....

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(\* Please add Rs. 50/- extra for outstation cheque)

Place:

Date:

Signature

**Mail to:**

**Dr. D C Pande**  
Electronics and Radar Development Establishment  
DRDO Complex  
C.V. Raman Nagar  
Bangalore 560 093, India  
Tel: 91-80-2524 4750 or 25025295  
Fax: 91-80-2524 2873  
Email: incemic2008@gmail.com  
www.semcei.org

## Delegate Registration

	Conference	Workshop
General	Rs. 4000/- (US \$ 150/-)	Rs. 3500/- (US \$125/-)
SEMCE(I) Members	Rs. 3500/- (US \$ 135/-)	Rs. 3000/- (US \$115/-)
Students	Rs. 1500/-	Rs. 1500/-

**Late fee: Original fee + (Rs. 500/- or \$ 15/- respectively)**

Registration fee includes delegate kit, lunch, refreshments & Conference Dinner.

## Mode of Payment

All payments to be made by Cheque / Demand Draft drawn in favour of "INCEMIC-2008" payable at Bangalore. Payments from abroad can be made by Bank Transfer. Particulars for Bank Transfer are as follows:

**Account Name:** INCEMIC-2008  
**Account Number:** 30383097977  
**Bank:** State Bank of India  
**Beneficiary Branch:** CV Raman Nagar, Bangalore 560 093  
**Beneficiary Branch Code:** 3994  
**MICR Code:** 560002030  
**Destination Branch:** HAL, Bangalore  
**Destination Branch Code:** 1114  
**Swift Code:** SBININBB147

## Due Dates for Payment

Exhibitors	<b>October 15, 2008</b>
Ad in souvenir	<b>October 15, 2008</b>
Sponsorship	<b>October 15, 2008</b>
Registration of authors	<b>September 30, 2008</b>
Registration of non-authors	<b>October 31, 2008</b>

**Registration is open till the first day of the event for workshop and conference with late fee.**

## Cancellations & Substitutions

Due to limited conference space we advise early registration to avoid disappointment. Your registration will not be confirmed until payment is received. Admission to the conference and / or workshop will be refused if payment has not been received.

### **CANCELLATION AND SUBSTITUTION POLICY**

Provided the fee has been paid in full, substitutions at no extra charge can be made up to 7 business days before the start of the conference. Cancellations must be received in writing or by fax, more than 7 days before the conference is to be held in order to obtain a full credit for any future conference. Cancellations received 7 days or less (including the seventh day) prior to the conference will not be credited. SEMCE(I) is not responsible for any loss or damage as a result of substitution, alteration, postponement, or cancellation of an event due to causes beyond its control including without limitation, acts of God, natural disasters, sabotage, accident, trade or industrial disputes, terrorism, or hostilities.

**SPEAKER CHANGES** Occasionally it is necessary for reasons beyond our control to alter the content and timing of the programme or identity of the speakers.