

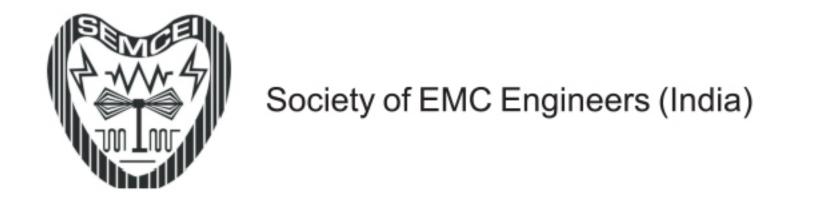
ASIAEM 2017

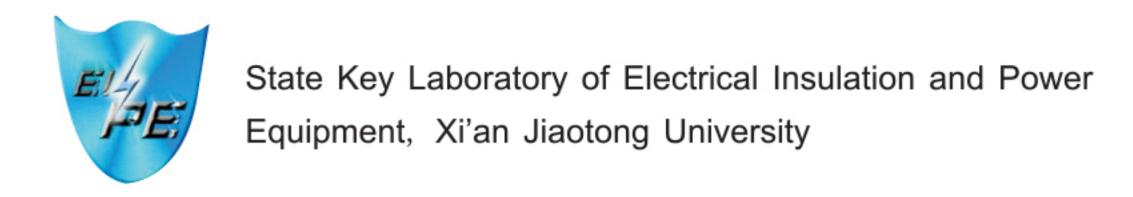
ASIAN ELECTROMAGNETICS CONFERENCE

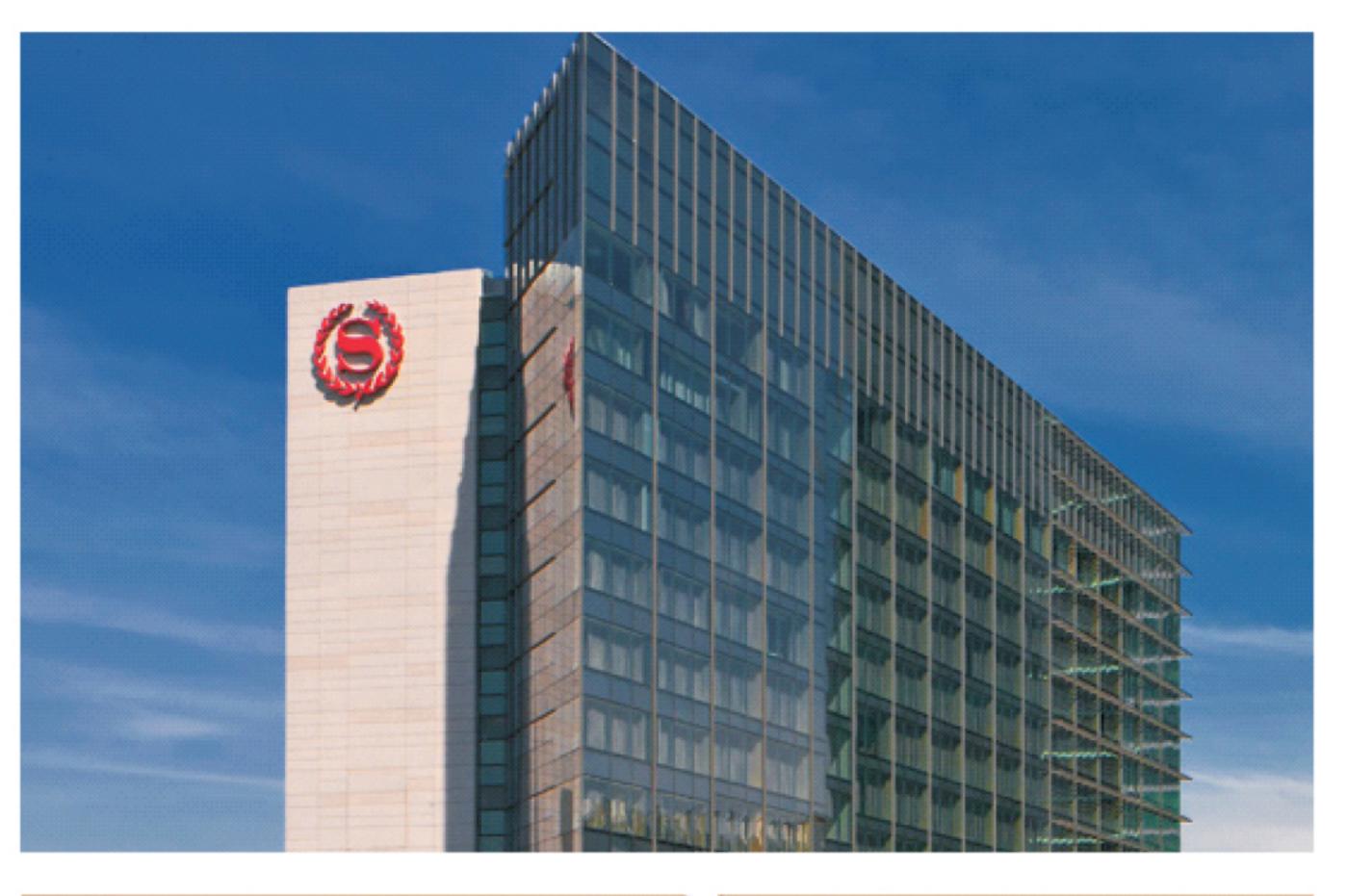
Sheraton Grand Hotel Bengaluru, India July 23-27, 2017

Organizers:

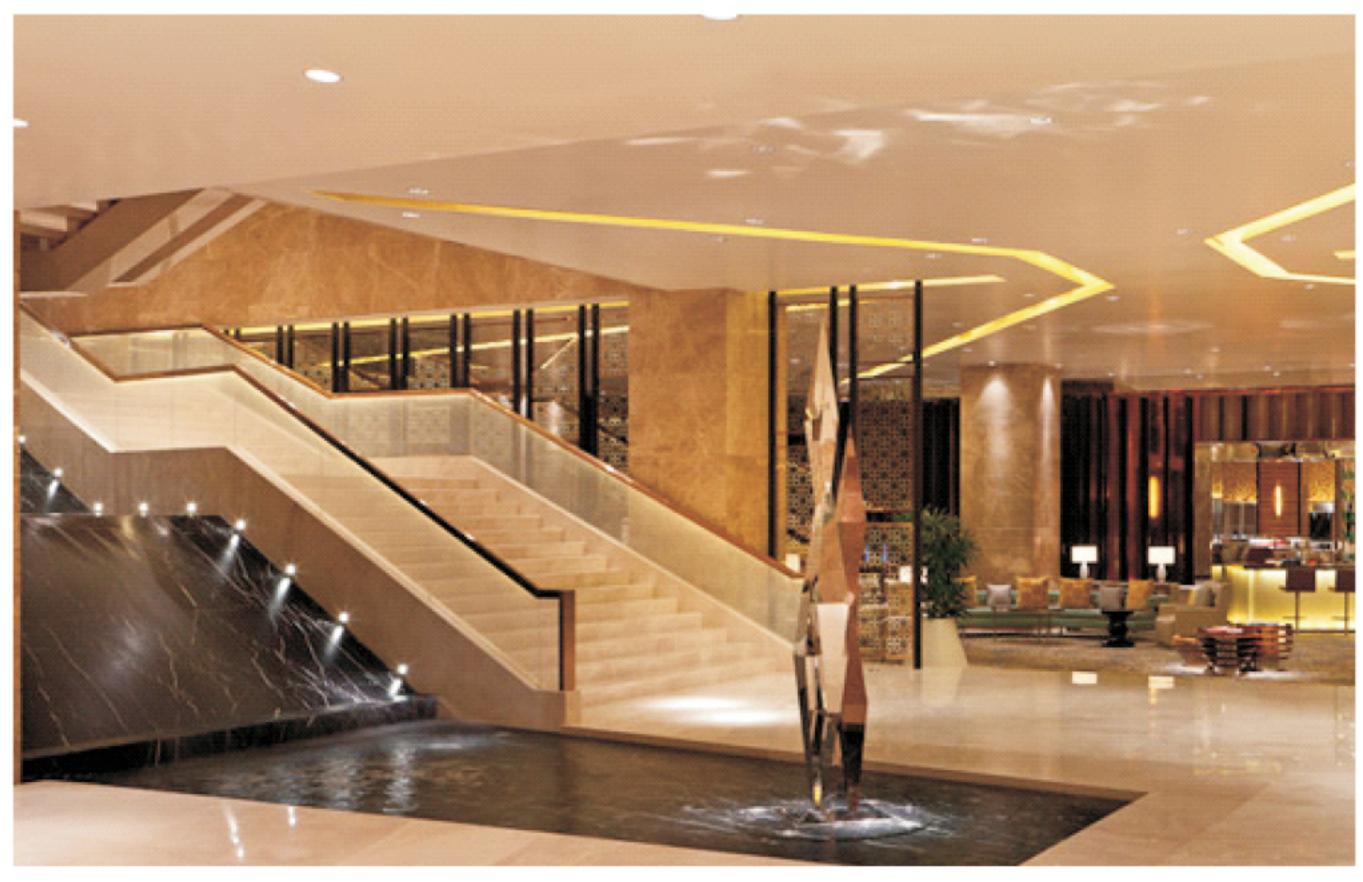


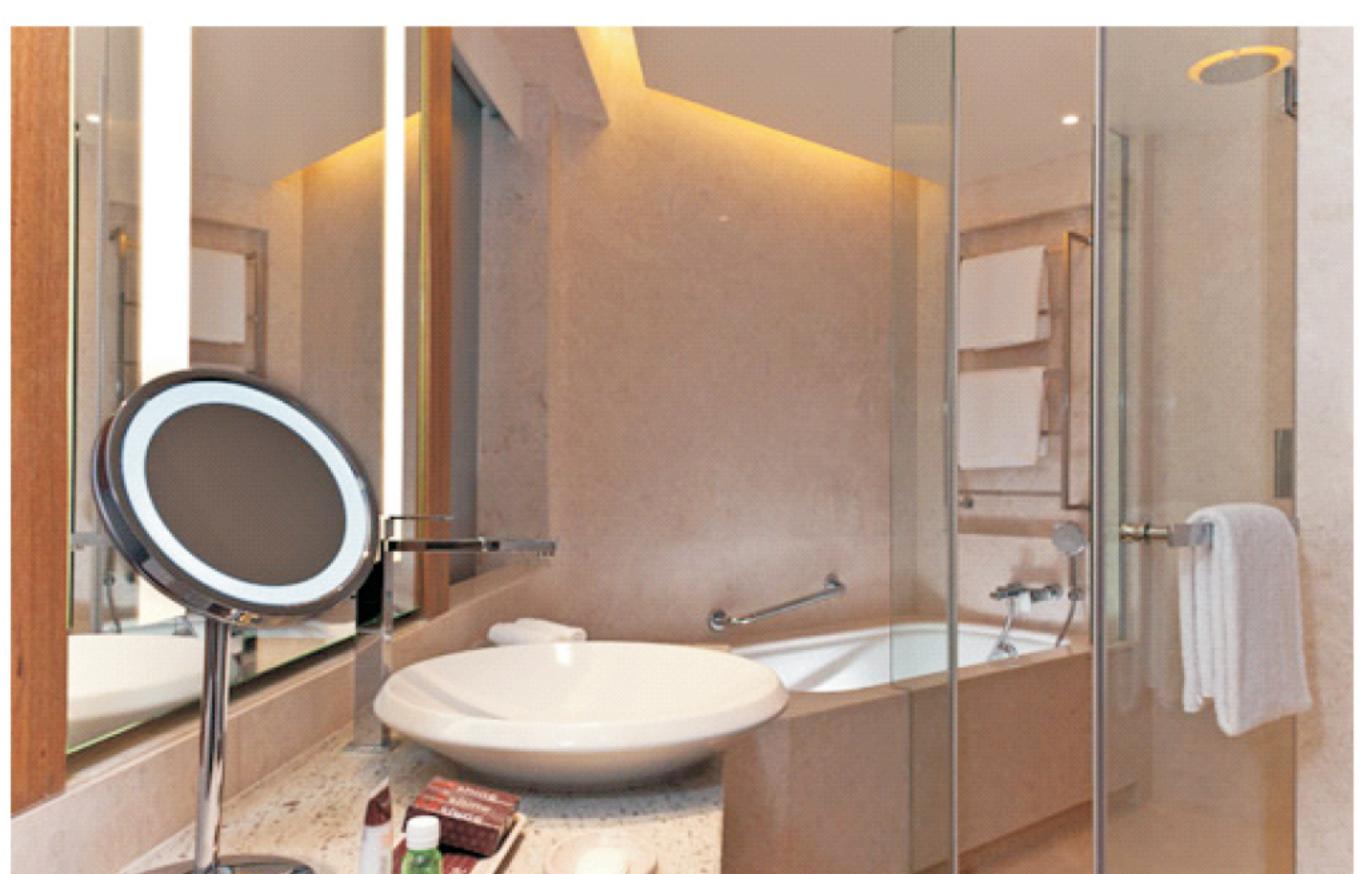












Conference Venue - Sheraton Hotel Brigade Gateway, Bengaluru, India









Welcome by General Chairs



We are happy to invite you to participate in ASIAEM 2017 in Bengaluru, India. Bengaluru is home to India's Defense establishments and its Space Research Organization. Many multinational companies such as Infosys, Yahoo, Google and Microsoft are located here. When one of the General Chairs (DVG) was growing up here in the 1960s, Bengaluru was called the "Garden City of India". Now it is nicknamed the "Silicon Valley of India".

Dr. D. V. Giri, Chair ym DV

The AMEREM/EUROEM meetings have a rich history behind them. In 1978, the late Dr. Carl Baum organized the first Nuclear Electromagnetic Pulse Meeting or the NEM in Albuquerque, NM with support from his SUMMA Foundation. This first meeting brought together scientists/engineers from the U.S. and Western Europe. At some point, the NEM was renamed as the High-Power Electromagnetics Meeting or HPEM. When this meeting was held in 1994 in Bordeaux, France, it was renamed EUROEM and subsequently, the meetings in North America have been called AMEREM. These meetings have been held in every even year since 1978. With regards to Ultra-wideband/Short Pulse or UWB/SP, the first two meetings were held in Brooklyn Polytechnic, in New York. After these initial meetings Prof. Leo Felsen asked Carl Baum to include them in AMEREM/EUROEM and presentations in these meetings have been turned into full-length papers resulting in the publication of 10 books, titled Ultra-Wideband, Short Pulse Electromagnetics. In recent times, these books have been published by Springer.

For the first time, this meeting came to the Asian Continent and was held in Jeju, Republic of Korea in 2015. Please visit http://ece-research.unm.edu/summa//notes/Memos.html for more information on the history of AMEREM / EUROEM / ASIAEM MEETINGS.



Given the success of ASIAEM 2015, we have organized ASIAEM 2017 in India. We now welcome you to ASIAEM-2017. We hope you will enjoy the technical program and enjoy your visit to India.

Dr. D. C. Pande, Co-Chair Amel



Welcome by the Technical Program Committee (TPC)

Dear Members of the HPEM Community:

On behalf of the Technical Program Committee (TPC), it is a pleasure to welcome you to ASIAEM 2017 in Bengaluru, India which has been called the "Silicon Valley of India".

We have planned an exciting technical program consisting of both oral and poster presentations. In addition, we have exhibitors presenting their products and services. HPEM (High-Power Electromagnetics) is an all-encompassing term consisting of lightning, HEMP, IEMI and electromagnetic systems producing high-power EM fields in narrowband, mesoband, sub-hyperband and hyperband. To cover this vast technical area, we formed 14 Technical Committees (TCs) in HPEM, UWB, UXO and a Poster Session (note that while UWB and UXO EM fields are part of HPEM, we have separate TCs for historical reasons). This time around, the three Special Session (SS) organizers deserve a debt of gratitude for assembling high-quality presentations in diverse areas. Each of these TCs and SSs has a Chair and Co-Chair soliciting submissions and organizing sessions. We are grateful to each one of them. We received 137 abstract submissions from 14 countries. Authors from Asian nations, especially the host nation of India and China have contributed significantly. The quantity and the quality of submissions is indeed impressive considering the number of symposia in related areas this year and that we are organizing ASIAEM for the second time. This success has been possible because of the efforts of the Chairs and Co-Chairs of TCs and SSs.

It was no easy task to cycle through the review process and organize the papers into coherent technical sessions. The on-line review process worked well, and we are thankful to all of the reviewers. The TPC, the Symposium Chairs and the Organizing Committee worked well together to serve up an exciting technical program. We have introduced both an Early Career award and the Best Student Paper award, as per tradition. These recognitions will take place during the Banquet on Wednesday, July 26, 2017. We also plan to collect some selected papers from AMEREM 2014, ASIAEM 2015, EUROEM 2016 and ASIAEM 2017 to publish as UWB SP 11.

We do hope you will find this to be a rewarding and useful program. Please do plan to take some time out to enjoy the Indian cuisine and the many other visitor offerings.

Then you should begin to think about AMEREM 2018 in Santa Barbara, California!

Dr. D. V. Giri

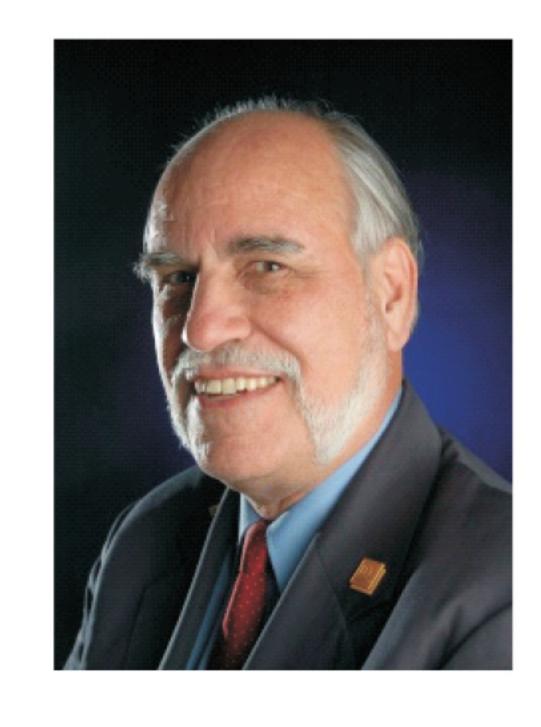
yin DV

Chair, TPC

Dr. William Radasky

Marky

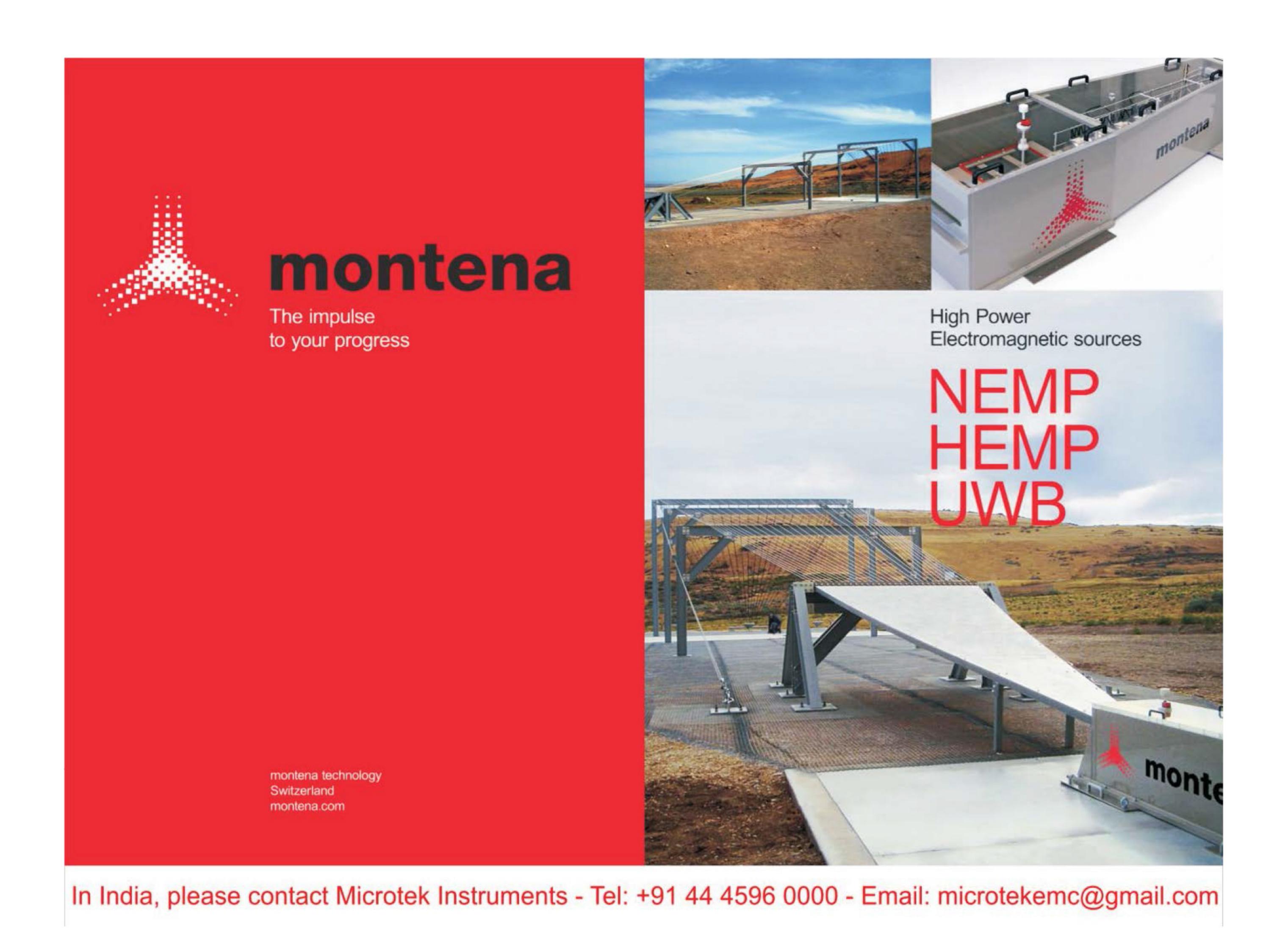
Vice Chair, TPC



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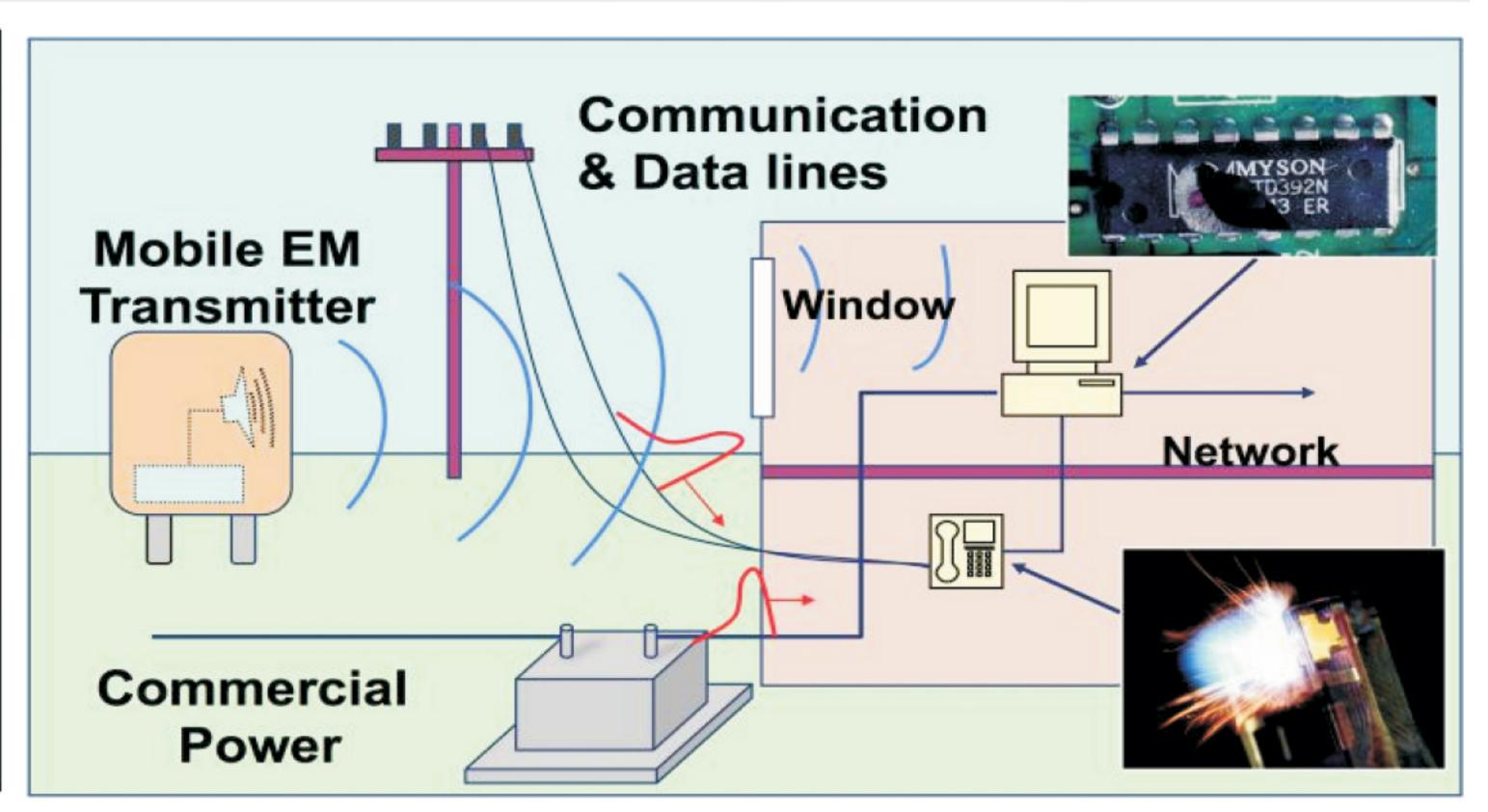
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22:00 UT

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280



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Summary of Experience, Services and Products Available from Metatech:

- Development of IEC HEMP and IEMI standards for protecting civil facilities from high power EM environments.
- Development of IEEE and Cigré IEMI standards and guides for protecting computer equipment and substation electronics from IEMI, respectively.
- Susceptibility testing of low-voltage equipment to HPEM threats including HEMP, IEMI and harmonics produced by geomagnetic storms.
- Susceptibility assessments and protection recommendations for existing buildings and electronics to cover the threats of HEMP and IEMI.
- Consulting support for the design and construction of high-frequency EM shielded buildings (HEMP and IEMI) for the critical infrastructures.
- Evaluations of the susceptibility of regional and national high voltage power grids to severe geomagnetic storms.

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Program at a Glance

Day/Date		Time	Grand Room1(Capacity 150)	Grand Room2(Capacity 150)	Neptune(Capacity 55)	Jupiter(Capacity 50)	Total papers
	AM1	09:00-11:00 11:30-12:20	Welcome Session in Grand Ball Coffee Break from 11:00-11:30		Room (=Grand Ball Room 1+ Grand Ball Room 2)		
Monday	AM2	12:20-13:20	Opening of Exhibition Walk Thru	lk Thru by Invitees + Lunch till 14:20	ill 14:20		
7 Papers	PM1	14:20-15:40	Vacant	Vacant	TC 14 (4 Papers) 152, 228, 230, 118	SS 03 (3 Papers) 147,153,243	7
	PM2	16:00-17:20	Poster Session for Best Student	tudent and Best Early Career Award Papers	er Award Papers		
	AM1	09:00-10:20	TC 06-1(4 Papers) 163,178,166,174	TC13-1 (4 Papers) 187,196,127,231	TC 12&TC10(4 Papers) 214,229,235,139	TC01-1 (4 Papers) 111,149,216,238	16
Tuesday	AM2	10:40-12:00	TC 06-2(4 Papers) 103,227,142,233	TC 13-2 (4 Papers) 176,119,161,148	TC 07 (4 Papers) 167,108,198,184	TC 01-2 (4 Papers) 179,239,234,219	16
61 Papers	PM1	14:00-15:20	TC 06-3(2 Papers) 172,224	TC 03-1(4 Papers) 202,190,204,199	TC 07 (4 Papers) 151,104,131,208	TC 01-3 (4 Papers) 185,194,106,203	14
	PM2	15:40-17:00	SS 02 (4 Papers) 136,157,158,212	TC 03-2(4 Papers) 162,215,223,109	TC 07 (3 Papers) 193,117,150	TC 01-4 (4 Papers) 205,126,240,241	15
Total Oral Pa	apers or	l Papers on Monday and Tuesday	uesday				89

0,,,,		L	Grand Ball	Grand Ball	Nontuno/(Conority EE)	Lunitor(Conority, EO)	Total
Day/Date		<u>ש</u>	Room1(Capacity 150)	Room2(Capacity 150)	Neptune(Capacity 55)	Jupiter (Capacity 50)	ı otal papers
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	00.00	Plenary Session in Grar	nd Ball Room (= Grand Ball	Plenary Session in Grand Ball Room (= Grand Ball Room 1+Grand Ball Room 2)		
	- - - - -	00.00-00.00	ID (135,130,180,123)				4
Wednesday	CVV	44.00 40.00	Plenary Session in Grand B	nd Ball Room (= Grand Ball Room	Room 1+Grand Ball Room 2)		c
July 26	AIVIZ	11:00-12:30	ID (128,244,132)				o
27 Papers	2	40.00	Plenary Session in Grand B	nd Ball Room (= Grand Ball Room	Room 1+Grand Ball Room 2)		
	_ 	05:50-05:51	ID (114,159,164,237)				4
	PM2	16:00-17:30	Poster Session ID (101,	102,120,129), (137,140,141	Poster Session ID (101,102,120,129), (137,140,141,154), (155,170,171,181), (183,192,1	92,197,207)	16
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	00.00	TC 08(3 Papers)	TC 09 (4 Papers)	TC 11(4 Papers)	TC 01-5 (4 Papers)	15
		03.00-10.60	116,191,236	156,173,210,209	145,220,221,107	115,144,242,222	2
Thurday	CIVIV	10.40 12.00	TC 04-2(4 Papers)	TC 09 (3 Papers)	SS 01 (2 Papers)	TC 01-6 (3 Papers)	1.0
July 257	ZIVIZ	10.40-	218,160,113,175	213,217,225	195,186	112,200,201	7_
42 Papers	DM 7	11.00 15.10	TC 04-2(5 Papers)	TC 05(5 Papers)	TC 02 (5 Papers)	1,000/	15
	_ 	04.00.4-	105,143,177,189,211	182,124,125,121,226	206,138,110,188,165	אמבים	2
	PM2	16:20-17:20	Vacant	Vacant	Vacant	Vacant	0
Total 27 Pape	rs (11 Pl	lenary + 16 Post	Total 27 Papers (11 Plenary + 16 Poster) on Wednesday				00
Total 42 Oral	Papers c	on Thursday – Er	Total 42 Oral Papers on Thursday – End of Conference				80

Committee

Given Name Family Name TC Short Title Organization D. V. Bill Prather 1 HPEM-Source, Antennas, Facilities HPEM-Source, Antennas, Facilities Jean-Philippe Lars-Ole Fichte Sergey Tkachenko Farhad Rachidi TC Short Title Organization Pro-Tech, US Air Force Research Labor ONERA, France HPEM-Coupling/Structure/Cables HPEM-Coupling/Structure/Cables HPEM-Analytic and Numerical Modeling HPEM-Analytic and Numerical Modeling HPEM-Lightning EM Effects/Measurement Lihua Shi HPEM-Meas. Techniques E30E Laboratory, China	ty, Germany
BillPrather1HPEM-Source, Antennas, FacilitiesAir Force Research LaborJean-Philippe Lars-OleParmantier Fichte2HPEM-Coupling/Structure/Cables HPEM-Coupling/Structure/CablesONERA, France Helmut-Schmidt Universit University of Magdeburg, EPFL, SwitzerlandSergey FarhadTkachenko Rachidi2HPEM-Lightning EM Effects/MeasurementUniversity of Magdeburg, EPFL, Switzerland	ty, Germany
Jean-Philippe Lars-OleParmantier Fichte2HPEM-Coupling/Structure/Cables HPEM-Coupling/Structure/Cables HPEM-Analytic and Numerical Modeling HPEM-Lightning EM Effects/MeasurementONERA, France Helmut-Schmidt University University of Magdeburg, EPFL, Switzerland	ty, Germany
Sergey Tkachenko 2 HPEM-Analytic and Numerical Modeling University of Magdeburg, Farhad Rachidi 2 HPEM-Lightning EM Effects/Measurement EPFL, Switzerland	J .
Farhad Rachidi 2 HPEM-Lightning EM Effects/Measurement EPFL, Switzerland	Germany
Linua Oni Elvi Vicas. I confinques	
Anthony Wraight 3 HPEM-Meas. Techniques Ministry of Defense, UK	
Martin Schaarschmidt 3 HPEM-Meas. Techniques Bundeswehr Research	Institute for
Protective Technologies	and NBC-
Protection, Germany	
Bill Radasky 4 HPEM-IEMI Threats/Effects/Protection Metatech Corp., US Richard Hoad 4 HPEM-IEMI Threats/Effects/Protection QinetiQ, UK	
Richard Hoad 4 HPEM-IEMI Threats/Effects/Protection QinetiQ, UK Armin Kaelin 5 HPEM-System Level Protection and EMProtec, Switzerland	
Testing	
Yanzhao Xie 5 HPEM-System Level Protection and Xi'an Jiaotong University,	China
Testing	
Mats Backstrom 5 HPEM-System Level Protection and Saab Group, Sweden	
Farhad Rachidi 6 HPEM-Lightning EM Effects/Measurement EPFL, Switzerland	
Marcos Rubinstein 6 HPEM-Lightning EM Effects/Measurement HEIG-VD, Switzerland	
Sergey Trachenko 7 HPEM-Analytic and Numerical Modeling University of Magdeburg,	Germany
Shengquan Zheng 7 HPEM-Analytic and Numerical Modeling Science and Technolog	gy on ÉMC
Laboratory, China	
Lars-Ole Fichte 8 HPEM-Bioeffects/Medical Applications of Helmut-Schmidt Univ., Ge	ermany
D. V. Giri 8 HPEM-Bioeffects/Medical Applications of Pro-Tech, US	
EM	
Koichi Ito 8 HPEM-Bioeffects/Medical Applications of Chiba University, Japan	
EM	
D. V. Giri 9 UWB-Ant. Design/Radiation Pro-Tech, US	
EverettFarr9UWB-Ant. Design/RadiationFarr Research, USDebalinaGhosh10UWB-Radar Systems/Signal Processing/ Indian Institute of	Technology
Security Shubaneswar, India	recritiology
Vladimir Koshelev 11 UWB-Target Detection/Imaging HCEI, Russia	
Felix Vega 12 UXO-Landmine/IED Detection and National University of	f Columbia,
Neutralization Columbia	
Xiong Wu 13 HPEM-EM Transients in UHV/EHV Trans State Grid, China	
Lines &Substations Yanzhao Xie 13 HPEM-EM Transients in UHV/EHV Trans Xi'an Jiaotong University,	China
Lines &Substations	Offilia
Bill Radasky 13 HPEM-EM Transients in UHV/EHV Trans Metatech Corp., US	
Lines &Substations	
Chaouki Kasmi 14 Statistical Methods in HPEM French Network and	Information
Lars-Ole Fichte 14 Statistical Methods in HPEM Security Agency, France	
Sergey Tkachenko 14 HPEM-Analytic and Numerical Modeling Helmut-Schmidt University of Magdeburg,	

			SPECIAL SESSIONS	
Given Name	Family Name	Session	Title	Organization
Amitabha	Bhattacharya	SS - 01	Ground Penetrating Radar	Indian Institute of Technology, Kharagpur, India
Subrata	Maiti	SS - 01	Ground Penetrating Radar	National Institute of Technology, Rourkela, India
Edl	Schamiloglu	SS - 02	Meta Materials for High-Power Applications	University of New Mexico, US
Amitabha	Bhattacharya	SS - 02	Meta Materials for High-Power Applications	Indian Institute of Technology, Kharagpur, India
Richard	Hoad	SS - 03	EMC of Air and Space Systems	QinetiQ, UK
V. K.	Hariharan	SS - 03	EMC of Air and Space Systems	Indian Space Research Organization, India

ASIAEM 2017

ASIAN ELECTROMAGNETIC CONFERENCE

Sheraton Grand Hotel Bengaluru, India July 23-27, 2017

Conference Chair

D. V. Giri (Pro-Tech and Univ. of New Mexico, USA)

Conference Co-Chair:

D. C. Pande (EMC Society, India)

Technical Program Committee:

TPC Chair: D. V. Giri (Pro-Tech)

TPC Vice Chair: William Radasky (Metatech)

Advisors:

R. Hoad (QinetiQ)

Yanzhao Xie (Xi'an Jiaotong Univ.)

Edl Schamiloglu (Univ. of New Mexico)

Exhibition Committee Chair:

Cdr. Sanjay Singh (Retired) (ETS-Lindgren, India)

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Awards Committee Chair:

Felix Vega (National Univ. of Bogota, Colombia)

Organizing Committee Chair (India):

Dhiraj K. Singh (LRDE, Bengaluru, India)

Event Manager: Kris Narayan

International Scientific Committee

Mats Backstrom	Farhad Rachidi	Tae-He
A. Bhattacharya	William Radasky	Armin
Jin Soo Choi	Shiva S. Rai	Sudhir
Everett Farr	R. K. Rajawat	Chaouk
Lars Ole Fichte	M. Rubinstein	Nicolas
Robert Gardner	Frank Sabath	Markus
D. V. Giri	Archana Sharma	Janet C
J. Guo	Dhiraj K. Singh	D. C. P
Richard Hoad	Manjit Singh	Koichi I
Jean-Philippe Parmantier		

Tae-Heon Jang Joy Thomas Felix Vega Kaelin Kamath Yanzhao Xie ıki Kasmi Peter Zwamborn Paul Smith s Mora B. Subbarao us Nyffeler O'Neill P. K. Jain William Prather Pande Sanjay Singh lto

Dates of ASIAEM 2017: 23 – 27 July 2017 Sunday July 23, 2017

Registration: 3:00-7:00 PM
Neptune Room, Sheraton Hotel
Followed by

Welcome Reception: 7:00 - 9:00 PM



High View Lounge, 31st Floor of World Trade Center Building (across the street from the Sheraton Hotel)

We are pleased to invite you to join us for the ASIAEM 2017 Symposium.

ASIAEM 2017 provides a forum for the international scientific and engineering community in High-Power Electromagnetics.

An attractive program of the highest standard, including speakers from many countries, will await you. We look forward to seeing you in Sheraton Grand Bangalore Hotel at Brigade Gateway, Brigade Gateway Hotel in Bengaluru, India.

Location of Conference

Sheraton Grand Bangalore Hotel at Brigade Gateway, 26/1 Dr. Rajkumar Road, Bengaluru, Karnataka State, India. www.sheratongrandbangalore.com

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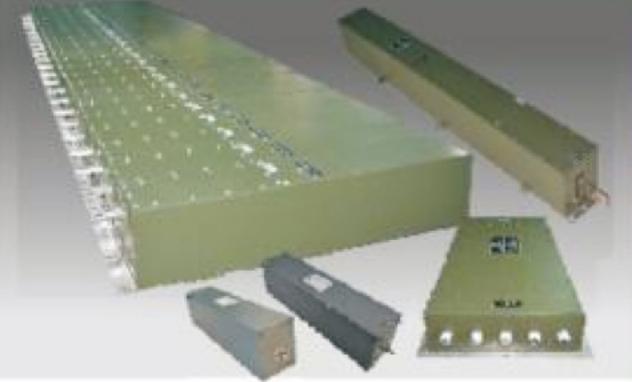








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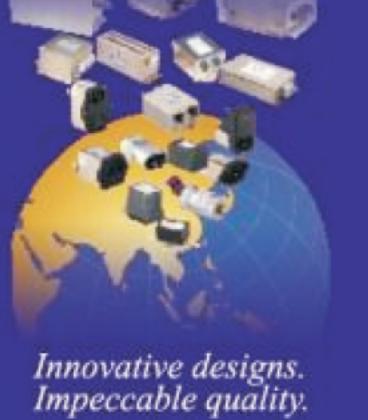




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Venues for Conference Events

Sunday 23 July 2017:

Registration 3 PM to 7 PM Neptune Room; Sheraton Hotel

Sunday 23 July 2017 Evening:

Welcome Reception:

High-View Lounge, 31st Floor, World Trade Center Building, across the street from the Sheraton Hotel

Wednesday 26 July 2017 Evening:

Banquet

Grand Ball Room, Sheraton Hotel

All Technical Sessions (Oral and Poster) and the Exhibition will be held at the **Sheraton Hotel**

Opening Ceremony Grand Ball Room, Sheraton Hotel Monday 24th July 2017

09:00 – 09:05	Lighting of the Ceremonial Lamp by Chief Guest, Sri. Kiran Kumar		
09:05 – 09:15	Symposium Chair Welcome address D.V. Giri, Pro-Tech and University of New Mexico, USA		
09:15 – 09:25	Symposium Chair Welcome address D. C. Pande, EMC Society of India, Bengaluru, India		
09:25 – 09:35	Technical Program Committee Chair, Welcome address D.V. Giri, Pro-Tech and University of New Mexico, USA		
09:35 – 09:45	AMEREM 2018 William Radasky, General Chair of AMEREM 2018		
09:45 – 09:50	Introduction of Keynote Speaker by D. V. Giri		
09:50 - 11:00	Keynote Speech, Sri. Kiran Kumar, Chairman, ISRO, "Historical Sketch of India's Space Activities TERLS to MoM and Beyond"		
11:00 – 11:30	Coffee Break		
11:30 – 12:20	D. V. Giri, "120 th Anniversary of the Discovery of the Electron"		
12:20 – 13:20	Walk through of Exhibitors Stalls by Invitees		
Lunch till 14:20			

Monday – 24 July 2017 [Sessions after Lunch]

Room: Neptune

Session: TC 14 Statistical Methods in HPEM Chairs: Dr. C. Kasmi and Dr. S. Tkachenko

ID	Time	Title
152	14:20 – 14:40	Developing a Statistical Topological Approach using Wave-chaos for Electromagnetic Effects (STUWEE) Ghadeh Hadi, Sameer Hemmady, and Edl Schamiloglu
228	14:40 – 15:00	Evaluation of HEMP Tests by Binary Regression Models Lars Ole Fichte, Marcus Stiemer, Chaouki Kasmi
230	15:00 – 15:20	High Frequency Coupling with Stochastic Transmission Line in Rectangular Resonator S. Tkachenko, J. Nitsch, R. Vick, R Rambousky
118	15:20 – 15:40	Probabilistic Assessment of Braid Hardening with Limited Amount of Information S. Lalléchère, S. Girard, P. Bonnet, F. Paladian, Chaouki Kasmi, Lars-Ole Fichte

13

Room: Jupiter

Session: SS 03 EMC of Air and Space Systems **Chairs:** Dr. R. Hoad and Dr. V. K. Hariharan

ID	Time	Title
147	14:20 – 14:40	ACHIEVING ELECTROMAGNETIC COMPATIBILITY IN INSAT-3DR SPACECRAFT
		Anju Damodaran, C. Anitha, Goutam Kumar Gupta, Bhooma G., NandishS.T., MohammedAli A., V.K.
		Hariharan, M. Nageswara Rao
153	14:40 - 15:00	EMI/EMC & ESD Control Techniques in 'NAVIC'
		Spacecraft (IRNSS) Series
		Aras Kumar R, Pal RK, Rajnish Yadav, Pallavi Y, Amit K,
		Pramod V.Belgaonkar, V.K.Hariharan, M.Nageshwar Rao
243	15:00 - 15:20	Challenges Associated with the Development and
		Operation of a High Power Reverberation Chamber G D M Barber, T Hague
	15:40 - 16:00	Coffee / Tea break in Pre-Function Area

POSTER SESSION for BEST STUDENT & BEST EARLY CAREER AWARD PAPERS in Pre-Function Area

ID	Time	Title
193	16:00 – 17:20	HEMP radiated environment distribution simulated by Monte Carlo method Ning Dong, Yan-zhao Xie
208		Study of an Helical Flux Compression Generator Used for Driving a High Power Microwave Source Ashish Sharma, M. Joy Thomas
196		A Full-Scale Experimental Test of Electromagnetic Time Reversal Applied to Locate Faults in Power Lines Zhaoyang Wang, Shaoyin He, Qi Li, Buying Liu, Reza Razzaghi, Mario Paolone, Yanzhao Xie, and Farhad Rachidi
163		Issues Related with use of FDTD in Return-stroke Modeling Rupam Pal, Udaya Kumar
202		Development of Multi-channel Waveform Recorder for Transient Electrical Signals Measurement Kong Xu, Xie Yan-Zhao
223		High Power Millimeter Wave Pulse Measurement Using Cross- waveguide Resistive Sensor Anil Allampalli, Amitabha Bhattacharya
214		Feasibility Study of Using Finite Rate of Innovation Signal for Detection of Landmines Vijayakumar Solaiselvam, Joy Thomas M
203		The Criteria to Evaluate the Performance of High-Power UWB Antennas
187		Shaofei Wang, Yanzhao Xie Characteristic Analysis of Conducted and Radiated Switching Transients of GIS
238		ZHANG Hong-ye, XIE Yan-zhao Overview of X-band Relativistic Triaxial Klystron Amplifier Research at the National University of Defense Technology Jinchuan Ju, Wei Zhang, Xingjun Ge, Lishan Zhao, Huihuang Zhong, and Jun Zhang
182		Challenges in Designing and Testing of EMP Data Line Filter Aswin R

D. Gazzana, A. Smorgonskiy, N. Mora, M. Rubinstein, F. Rachidi

Simulation Analysis of Tower Grounding Impedance under Impulse

Tuesday – 25 July 2017 [Sessions before Lunch]

Current

Wei Qi, Guo Jie

Room: Grand Ballroom 1

Session: TC 06 - 1 Lightning modeling & observations

Chairs: Dr. F. Rachidi and Dr. M. Rubinstein

ID	Time	Title
163	09:00 - 09:20	Issues Related with use of FDTD in Return-stroke Modeling Rupam Pal, Udaya Kumar
178	09:20 — 09:40	Channel Current Predicted by a Self Consistent Return Stroke Model for Different Leader Charge Models Sukesh A, Udaya Kumar
166	09:40 — 10.00	A Study of Upward Flashes Initiated at the Säntis Tower R. Daher, M. Azadifar, A. Smorgonskiy, Jacques Zuber, M. Rubinstein, G. Diendorfer, F. Rachidi
174	10:00 — 10:20	Lightning strike to tower side of Tokyo Skytree Toru Miki, Mikihisa Saito, Takatoshi Shindo, Hideki Motoyama, Masaru Ishii
	10:20 - 10:40	Coffee/Tea Break
Session:	TC 06 – 2 Lightning in	teraction with grounding systems and buried
Chairs: D	r. F. Rachidi and Dr. M.	Rubinstein
103	10:40 — 11:00	Effect of a Shield Wire on Lightning-Induced Currents on a Buried Cable due to a Direct Strike H. Tanaka, Y. Tian, Y. Baba, C. F. Barbosa, T. Tsuboi, S. Okabe
227	11:00 – 11:20	Impact Characteristics of Single Extended Grounding Electrode Liu Xing, Guo Jie
142	11:20 – 11:40	Experimental Characterization of the Grounding Impedance of Wind Turbines

Room: Grand Ballroom 2

233

Session: TC 13 - 1 EM Issues in Power Systems

11:40 - 12:00

Chairs: Dr. Y. Xie and Dr. W. Radasky

ID	Time	Title
187	09:00 - 09:20	Characteristic Analysis of Conducted and Radiated Switching
		Transients of GIS
		ZHANG Hong-ye, XIE Yan-zhao
196	09:20 - 09:40	A Full-Scale Experimental Test of Electromagnetic Time Reversal
		Applied to Locate Faults in Power Lines
		Zhaoyang Wang, Shaoyin He, Qi Li, Buying Liu, Reza Razzaghi,
		Mario Paolone, Yanzhao Xie, and Farhad Rachidi
127	09:40 - 10.00	Transient Electric Field Computation on Polymer Insulators Mounted
		in EHV Lines
		Gowrishankar S, Sunitha K
231	10:00 - 10:20	Noninvasive Method to Diagnose Early Insulation Fault during Circuit
		Breaker Test by Radiated E-Field Measurement
		Kong Xu, Xie Yan-Zhao, Sun Li-qiong
	10:20 - 10:40	Coffee/Tea Break

Session: TC 13 -2 Geomagnetic Issues and Protection

Chairs: Dr. Y. Xie and Dr. W. Radasky

Chairs: L	Dr. Y. Xie and Dr. W. Rad	dasky
ID	Time	Title
176	10:40 — 11:00	Review of Geomagnetic Storm Environments – 2017 W. A. Radasky
119	11:00 - 11:20	Geomagnetic Sudden Impulse Disturbance Signals Collection and Evaluation E. B. Savage, W. A. Radasky, J. L. Gilbert
161	11:20 — 11:40	Further Analysis of Shoreline Edge Effects for Stratified Grounds James Gilbert
148	11:40 — 12:00	Issues for Power Grid Substation High-Level EM Protection E. B. Savage, W. A. Radasky



Tuesday – 25 July 2017 [Sessions before Lunch]

		ZOZ/ [SCSSIOIIS SCIOIC Editor]
•	12 & TC 10 UXO-l nal Processing and Se	
	F. Vega and Dr. Joy Th	
ID 214	Time 09:00 – 09:20	Title Study of Finite Rate of Innovation Signal for Detection of Landmines Vijayakumar Solaiselvam, Joy Thomas M
229	09:20 — 09:40	A Review of the Existing Techniques for Complex Natural Resonance Extraction Andrés Gallego, Felix Vega, Sebastian Eslava
235	09:40 — 10.00	Statistical Analysis of the Radar Cross Section of Colombian Improvised Explosives Devices D Martinez, F Vega, C Baer, J Sachs, R Bustamante
139	10:00 — 10:20	Denoising Video Signals by Reducing EMI/EMC Noise from Video Interfaces Himanshu Makkar, O.S. Lamba
	10:20 - 10:40	Coffee/Tea Break
Session: TC Chairs:	07 (4 Papers)	
ID	Time	Title
167	10:40 - 11:00	Enforcing Delayed Causality Through Spectrum Extrapolation J. Becerra, F. Vega, F. Rachidi
108	11:00 - 11:20	Isotropic Shielding Properties of Loaded Apertures Ronny Gunnarsson, Bengt Vallhagen, Mats Bäckström Circuit Approximation of the Deflection Coefficients for the
198	11:20 – 11:40	Circuit Approximation of the Reflection Coefficients for the Asymptotic Approach and the SEM Method S. Tkachenko, F. Middelstaedt, J. Nitsch, R. Vick, F. Rachidi
184	11:40 – 12:00	Limit for the circuit model for Rogowski Coil Santosh Janaki Raman and Udaya Kumar, Sridhara B
	01 – 1 HPM TWT Sou	urces (4 Papers) er and Prof. V. Koshelev
ID	Time	Title
111	09:00 - 09:20	Laser Induced Microwave Oscillations Arindum Mukherjee, B N Biswas, N R Das
149	09:20 — 09:40	W-band Optics for Matching Beams with Astigmatism and Tilt (WOMBAT) Sameer D. Hemmady, Brad W. Hoff
216	09:40 — 10.00	Establishment of India's Largest Outdoor RS105 Test Facility as per MILSTD 461F/G
238	10:00 - 10:20	B. Venkata Ramana, P. Siva Kumar, B Subbarao Overview of X-band Relativistic Triaxial Klystron Amplifier Research at the National University of Defense Technology
		Jinchuan Ju, Wei Zhang, Xingjun Ge, Lishan Zhao, Huihuang Zhong, and Jun Zhang
	10:20 - 10:40	Coffee/Tea Break
Session: TC	01 – 2 HPM MILO an	d Magnetron Sources (4 Papers)
	D. V. Giri, Mr. W. Prathe	•
ID	Time	Title
179	10:40 – 11:00	Development of a Mesoband Immunity Test Source and Method
		R. Hoad, B. Petit, T. Rees and G. Eastwood
239	11:00 – 11:20	Investigation of a compact mesoband high power microwave source Yuwei Wang, Dongqun Chen, Jiande Zhang, Jinchuan Ju, Xingjun Ge and Lishan Zhao
234	11:20 – 11:40	HYBRID T/R MODULE FOR PHASED ARRAY ANTENNA APPLICATION
219	11:40 — 12:00	Muthukumar M, D.Ramakrishna, V.M.Pandharipande A Critique of the Bandwidth Definition for a Pulsed EM Based Detection System Vijayakumar Solaiselvam, M. Joy Thomas



Tuesday – 25 July 2017 [Sessions after Lunch]

Room: Grand Ballroom 1

Session: TC 06 – 3 Lightning effects and diagnostics

Chairs: Dr. F. Rachidi and Dr. M. Rubinstein

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ID	Time	Title
172	14:00 – 14:20	The Performance and Test Methods for Lightning Direct Effect of Optical Ground Wires
		Sun Jinru, Yao Xueling, Xu Wenjun, Chen Jingliang
224	14:20 – 14:40	Lightning Thunderstorm Activity Diagnostics A.A. Serkov, S.A. Nikitin
	14:40 - 15:00	
	15:00 - 15:20	
	15:20 - 15:40	Coffee/Tea Break

Session: SS 02 Meta Materials for High-Power Applications

Chairs: Dr. E. Schamiloglu and Dr. A. Bhattacharya

ID	Time	Title
136	15:40 — 16:00	Experimental Hot Tests of a Metamaterial SWS High Power Microwave Source Edl Schamiloglu, Sarita Prasad, Sabahattin Yurt, and Mikhail Fuks
157	16:00 – 16:20	A Triple Band Pass Frequency Selective Surface For Augmentation In The Performance Of Wimax And Wlan Darakshanda Noor
158	16:20 – 16:40	Hetero Structured 2D-Photonic Crystal Ring Resonator based Optical Wavelength Division De-multiplexer Anila Dhingra, O. S. Lamba
212	16:40 – 17:00	Ultra-Thin Wide Band Metamaterial Absorber Prakash Kumar Panda, Debalina Ghosh, R. Vasudeva Reddy

Room: Grand Ballroom 2

Session: TC 03 -1 HPEM-Meas. Techniques (1) Chairs: Dr. M. Schaarschmidt and Dr. S. Satav

ID	Time	Title
202	14:00 - 14:20	Development of Multi-channel Waveform Recorder
		Kong Xu, Xie Yan-Zhao
190	14:20 - 14:40	Fast Rise-time, Transient High Voltage Divider
		Sandeep Satav, V. M. Pandharipande
204	14:40 - 15:00	Cone Antenna Design for D-dot Sensor Calibration
		Tae Heon Jang, Je Hun Lee
199	15:00 - 15:20	Research on calibration accuracy of D-Dot sensor
		Jiang Yunsheng, Meng Cui
	15:20 - 15:40	Coffee/Tea Break

Session: TC 03 -2 HPEM-Meas. Techniques (2) Chairs: Dr. M. Schaarschmidt and Dr. S. Satav

ID	Time	Title
162	15:40 - 16:00	Insertion Loss Free Measuring Antenna
		L. Duvillaret, G. Gaborit
215	16:00 - 16:20	Improved Large Mode Area Low Confinement Loss Photonic Crystal
		Fiber With Flattened Dispersion
		Sandhya Sharma, O.S. Lamba
223	16:20 - 16:40	High Power Millimeter Wave Pulse Measurement Using Cross-
		waveguide Resistive Sensor
		Anil Allampalli, Amitabha Bhattacharya
109	16:40 - 17:00	Innovative Shielding Effectiveness Measurement System
		Joly Jean-Christophe, Ribière-Tharaud Nicolas



Tuesday – 25 July 2017 [Sessions after Lunch]

	,,	
Room: Neptu Session: TC 0	ne 7 – 1 EM coupling	to Elements
		Zheng, Dr. S. Hemmady
ID	Time	Title
151	14:00 – 14:20	Developing Predictive Models for Erroneous Software Behavior due to Electromagnetic Interference Sameer Hemmady and Thomas M. Antonsen
104	14:20 - 14:40	Software and hardware assessment of FDTD simulations L. Labarbe, B. Pecqueux
131	14:40 — 15:00	NASCAP/GEO CHARGING ANALYSIS OF GSAT-11 Anju Damodaran, Gomathi D., Manvi Gupta, Vivek R. Srivastava,V. Lakshminarayana, P.K. Poddar, V. K. Hariharan, M. Nageswara Rao
208		Study of an Helical Flux Compression Generator Used for Driving a High Power Microwave Source Ashish Sharma, M. Joy Thomas
	15:20 - 15:40	Coffee / Tea Break
Session: TC (07-2 EM coupline	to complex systems
		Zheng, Dr. S. Hemmady
ID	Time	Title
193		HEMP radiated environment distribution simulated by Monte Carlo
		method
		Ning Dong, Yan-zhao Xie
117		Simulation of EMP generation in high power laser facilities
		Hanbing Jin, Cui Meng
150		Developing Predictive Scaling Laws for Large Signal RF Response of
		Elemental MOSFET Devices
		Desmond Awungayi, Nishay Sule, Payman Zarkesh-Ha, Edl
		Schamiloglu, Sameer Hemmady
	16:40 - 17:00	
Room: Jupite		
		VO and Gyrotrons (4 Papers)
	V. Giri, Mr. W. Prath	
ID 105	Time	Title
185	14:00 – 14:20	Far Field Boundary Characterization of Half Impulse Radiating Antenna (HIRA) Rekeab Kiebaulius and Sandson M Satous Divis
404	44.20 44.40	Rakesh Kichouliya and Sandeep M Satav, Divya Divi
194	14:20 — 14:40	Half Impulse Radiating Antenna for High Voltage UWB System
106	14:40 - 15:00	S. K. Singh, S. Mitra, K. Senthil, R. Chaurasia, Archana Sharma Padiation of High Power I Iltrawideband Buleas with Synthesized
106	17.70 - 13.00	Radiation of High-Power Ultrawideband Pulses with Synthesized Spectrum
		V.I. Koshelev, A.M. Efremov, V.V. Plisko, E.A. Sevostyanov
203	15:00 - 15:20	The Criteria to Evaluate the Performance of High-Power UWB
		Antennas
		Shaofei Wang, Yanzhao Xie
	15:20 - 15:40	Coffee / Tea Break
Session: TC 0	1 - 4 UWB Radiatio	
	V. Giri, Mr. W. Prath	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
ID	Time	Title
205	15:40 - 16:00	Particle-in-Cell Simulation of S-Band 500 MW Relativistic Backward
		Wave Oscillator
		Sanjay Kumar Gupta, S.Umamaheswara Reddy
126	16:00 - 16:20	Computation of Beam-Wave Interaction in Medium Power Gyrotron
		N Nayek and T. Tiwari
240	16:20 - 16:40	A Gigawatt-class, Repetitively Pulsed, Vacuum-sealed High-power
		Microwave Source
	40 40 4- 00	Tao Xun, Han-wu Yang, Yu-wei Wang, Jian-de Zhang
241	16:40 – 17:00	A High-efficiency Long-pulse Relativistic Backward-wave
		Oscillator with Coaxial Extractor
		Xingjun Ge, Jinchuan Ju, Lishan Zhao, Jun Zhang, Jianhua Yang



Wednesday – 26 July 2017

PLENARY SESSION (08:30 – 15:30) Grand Ball Room

Co-Chairpersons: Dr. W. Radasky, Prof. A. Bhattacharya and Dr. Subrata Maiti

POSTER SESSION (16:00 – 17:30) Pre-Function Area

Time Slot	Speaker	Topic
08:30-09:00	Prof. Edl Schamiloglu	High-Power Microwave Sources – Quo Vadis?
09:00-09:30	Prof. Lars-Ole Fichte	EM Reverberation Chambers (with Statistics)
09:30-10:00	Dr. D. C. Pande	HPEM Activities in India
10:00-10:30	Dr. Armin Kaelin	Challenges in HPEM Protections
10:30-11:00	Coffee Break	
11:00-11:30	Dr. Chaouki Kasmi	"SMART" IEMI and RF DEW: emerging threats for information security
11:30-12:00	Dr. Robet Gardner	Simulation of Upset from Low-level IEMI
12:00-12:30	Prof. Meng Cui	Research on HPEM in High Laser Facility
12:30-13:30	Lunch Break	
13:30-14:00	Dr. J-P Parmantier	EM Topology-decades of evolution
14:00-14:30	Prof. J. Venkataraman	The Metamaterial Revolution
14:30-15:00	Prof. Jane Lehr	Switches for HPEM Applications
15:00-15:30	Dr. S. N. Joshi	Indian Initiatives on Development oi Gyrotrons
15:30-16:00	Coffee Break	
16:00-17:30	Poster Session (Pre-Func	tion Area)
19:00-23:00	Awards Banquet	

NOTE:

Tickets may still be available for thee Awards Banquet

Please enquire with Dr. D. V. Giri: (Giri@DVGiri.com)

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Thursday – 27 July 2017 [Sessions before Lunch]

Room: Grand Ballroom 1

Session: TC 08 HPEM-Bioeffects/Medical Applications of EM

Chairs: Dr. L. Fichte and Dr. K. Ito and Dr. X. Yao

ID	Time	Title
116	09:00 — 09:20	Analyzing HF & LF RadHaz Scenarios with 3D EM Simulation Rijin Saseendran
191	09:20 — 09:40	Effects of millisecond pulsed electromagnetic field on C6 cell's viability and apoptosis, Yao Xueling, Xu Wenjun, Sun Jinru, Le Yangjing, Chen Jingliang, Lu Xiaoyun
236	09:40 — 10.00	Exfoliated Human Cells Response to Microwaves and Magnetic Field Exposure, Kuznetsov K.A., Shckorbatov Y.G. and V.N. Karazin
	10:00 - 10:20 10:20 - 10:40	Coffee / Tea Break

Session: TC 04 - 1 HEMP/IEMI Environments, Coupling and Standards

Chairs: Dr. W. Radasky and Dr. R. Hoad

ID	Time	Title
218	10:40 - 11:00	Electric Field Levels on Ground after High Altitude EMP Carl
		Friedrich Rädel, Michael Hagel, Lars Ole Fichte,
		Sebastian Lange, Frank Sabath, Marcus Stiemer
160	11:00 - 11:20	Variation of E1 HEMP and IEMI Coupling to Cables
		James Gilbert, William Radasky
113	11:20 - 11:40	2017 Update on HEMP and IEMI Standards
		R. Hoad, W.A. Radsaky
175	11:40 - 12:00	Improvements Needed for MIL-STD-188-125-1
		William A. Radasky, Sergio N. Longoria

Thursday – 27 July 2017 [Sessions before Lunch]

Room: Grand Ballroom 2

Session: TC 09 - 1 Patch and Wearable UWB Antennas

Chairs: Dr. D. Singh, Dr. D. V. Giri and Dr. E. Farr

ID	Time	Title
156	09:00 — 09:20	A Parametric Analysis A CPW Fed Novel Shaped Microstrip Patch Antenna Paresh Jain, O.S Lamba
173	09:20 - 09:40	Design and Analysis of Circular Slot Microstrip Patch Antenna with FR-4 Substrate
210	09:40 — 10.00	Payal Jindal, Sudheer Sharma, Onkar Lamba Simulation Analysis of Circular Polarization using Single Microstrip Patch Antenna Swapnil Narke, C Bhattacharya
209	10:00 — 10:20	Modified Ground Plane for High-gain UWB Wearable Antennas Shilpi Ruchi Kerketta, Debalina Ghosh, P. K. Sahu
	10:20 - 10:40	Coffee / Tea Break

Session: TC 09 - 2

Chairs: Dr. D. K. Singh, Dr. D. V. Giri and Dr. E. Farr

ID	Time	Title
213	10:40 — 11:00	Ubiquitous nature of Asymptotic Conical Dipole Profile for Ultrawideband Antenna Design Dhiraj K. Singh
217	11:00 — 11:20	Size reduction of log periodic antenna using folded arm structure NILESH KUMAR MANKER
225	11:20 — 11:40	UWB Pulse Generator Using Step Recovery Diode J.Prajapati, C. Prabhakar, M.S. Ansari, A. Chatterjee, R. S. Kshetrimayum, and R. Bhattacharjee
	11:40 - 12:00	

Room: Jupi		Sources and Datastian (4. Danara)
	: אופים אופים בי 10 – 10 D. V. Giri, Mr. W. Prat	Sources and Detection (4 Papers) her and V. Koshelev
ID	Time	Title
115	09:00 - 09:20	Thermal Simulation of High Power SBand Tunable
		Magnetron
		S.K. Vyas, T. Tiwari
144	09:20 - 09:40	Study of GW Range L-band Relativistic Magnetron using PIC
0.40	00-40 40 00	Srinivas Nekkanti, M. Joy Thomas
242	09:40 — 10.00	Experimental investigation of S-band magnetically insulated transmission line oscillator (MILO)
		V Nallasamy, C Narasimhamurthy, U Shanmuganathan,
		Saket Khandekar, Srinivas Nekkanti, B Vijay Kumar and
		SUM Reddy
222	10:00 - 10:20	Wideband High-Power Microwave Module on the Basis of
		Two RF-Outputs Magnetron
	40.20 40.40	G.I. Churyumov, A.I. Ekezly
Session: TO	10:20 - 10:40	Coffee / Tea Break
	D. V. Giri, Mr. W. Prat	ers, Sources and Facilities (3 Papers) her and V. Koshelev
ID 112	Time	Title Design of a broadband 0.22THz 100W Planar Travalling
112	10:40 – 11:00	Design of a broadband 0.22THz 100W Planar Travelling Wave Tube
		Vishnu Srivastava
200	11:00 - 11:20	Four Beam Folded Waveguide Slow Wave Structure for
		Millimeter Wave TWTs
004	44.00 44.40	Swagata Ray, Latha Christie
201	11:20 – 11:40	Design and Simulation of an Ultra Wideband Slow Wave
		Structure for a Millimetre Wave TWT
		Saniuktainei. Latna Christie
	11:40 – 12:00	SanjuktaNej, Latha Christie
Room: Nep		Sanjuktainej, Latna Christie
Session: TC	tune 11 UWB-Target De	etection/Imaging
Session: TC Chairs: Dr. \	tune 11 UWB-Target De /. Koshelev and Dr. D	etection/Imaging D. K. Singh
Session: TC Chairs: Dr. \ ID	tune 11 UWB-Target De /. Koshelev and Dr. D Time	etection/Imaging D. K. Singh Title
Session: TC Chairs: Dr. \	tune 11 UWB-Target De /. Koshelev and Dr. D	etection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time
Session: TC Chairs: Dr. \ ID	tune 11 UWB-Target De /. Koshelev and Dr. D Time	etection/Imaging D. K. Singh Title
Session: TC Chairs: Dr. \ ID	tune 11 UWB-Target De /. Koshelev and Dr. D Time	etection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain
Session: TC Chairs: Dr. \ ID 145	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 – 09:20	tection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique
Session: TC Chairs: Dr. \\ ID 145	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 – 09:20	etection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan
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Session: TC Chairs: Dr. \\ ID 145 220	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 - 09:20 09:20 - 09:40 10:00 - 10:20	Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A.Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov
Session: TC Chairs: Dr. \\ ID 145 220 211 107	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 - 09:20 09:20 - 09:40 10:00 - 10:20 10:20 - 10:40	Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A.Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov Coffee / Tea Break
Session: TC Chairs: Dr. \\ ID 145 220 221 107 Session: SS	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 - 09:20 09:20 - 09:40 10:00 - 10:20 10:20 - 10:40 01 Ground Penetra	Attection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A.Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov Coffee / Tea Break
Session: TC Chairs: Dr. \ ID 145 220 221 107 Session: SS Chairs: Dr. \(A)	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 – 09:20 09:40 – 10:00 10:00 – 10:20 10:20 – 10:40 01 Ground Penetral A. Bhattacharya and D	Attection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A. Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov Coffee / Tea Break Iting Radar Dr. S. Maiti
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Session: TC Chairs: Dr. \\ ID 145 220 221 107 Session: SS Chairs: Dr. \\ ID	tune 11 UWB-Target De /. Koshelev and Dr. D Time 09:00 – 09:20 09:40 – 10:00 10:00 – 10:20 10:20 – 10:40 01 Ground Penetra A. Bhattacharya and D Time	Attection/Imaging D. K. Singh Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A. Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov Coffee / Tea Break Iting Radar Dr. S. Maiti
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Session: TC Chairs: Dr. \ ID 145 220 221 107 Session: SS Chairs: Dr. \ ID 195	11 UWB-Target De /. Koshelev and Dr. D Time 09:00 - 09:20 09:20 - 09:40 09:40 - 10:00 10:00 - 10:20 10:20 - 10:40 01 Ground Penetra A. Bhattacharya and D Time 10:40 - 11:00 11:00 - 11:20	Title Comparison of Target discrimination using Epulse in time and frequency domain Naveena M, Dhiraj Kumar Singh Image Focusing of Stepped Frequency Ultra Wideband Radar using Time Reversal Technique Paramananda Jena, Debalina Ghosh, A. Vengadarajan EM Modelling of Ultra Wideband Time Reversal Paramananda Jena, Debalina Ghosh, A. Vengadarajan Dual Polarized Steering Transceiver for Object Detection through the Wall V.I. Koshelev, E.V. Balzovsky, Yu. I. Buyanov, E.S. Nekrasov Coffee / Tea Break Iting Radar Dr. S. Maiti Title Design of antenna systems with Tx/Rx Isolation for Handheld GPR Preeti Dongaonkar
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Thursday – 27 July 2017 [Sessions after Lunch]

Room: Grand Ballroom 1

Session: TC 04 - 2 Radiated and Conducted HPEM Equipment Testing

Chairs: Dr. W. Radasky and Dr. R. Hoad

ID	Time	Title
105	14:00 – 14:20	Evaluation of equipment power input susceptibility L. Labarbe, J-M. Lopez
143	14:20 – 14:40	Behavior Of Gas Discharge Tubes Under Mesoband and Narrowband HPEM Signal Conditions Matthias Kreitlow, Armin Kaelin, Markus Nyffeler, Pierre Bertholet
177	14:40 – 15:00	A Key Aspect in Estimating the Effects of Ultrashort EMP on Electronic Devices Yury V. Parfenov, Leonid N. Zdoukhov, Vladimir M. Chepelev, Boris A. Titov, William A. Radasky
189	15:00 – 15:20	Development of Compact, Wide Band (WB), High Power Electromagnetic (HPEM) System Electronic Vulnerability Study (EVS) M. Ratna Raju, Sandeep M. Satav, D. Ratan Sanjay
211	15:20 – 15:40	Studies of Vulnerailities on Electronics Gadgets against HPM Senthil Kumar D, Shanmuganathan, Saket Khandekar, Srinivas Nekkenti, Manik Das, Laloo Alex, and Sum Reddy Coffee / Tea Break

Room: Grand Ballroom 2

Session: TC 05 HPEM-System Level Protection and Testing

Chairs: Dr. A. Kaelin and Dr. M. Backstrom

Citation Di. 7t. Racini and Di. Wi. Backettoni				
ID	Time	Title		
182	14:00 – 14:20	Challenges in Designing and Testing of EMP Ethernet (RJ45) Filter Aswin R		
124	14:20 – 14:40	HEMP/IEMI Filter Design and Confirmation of Performance Sergio N. Longoria		
125	14:40 — 15:00	Protection of Points of Entry (PoE) for Defense and Commercial Structures against HPEM Sergio N. Longoria		
121	15:00 – 15:20	Vulnerability assessment of GNSS antennas to various threats Ribière-Tharaud N., Pirotais O., Joly JC., Rouquand A. CEA,		
226	15:20 – 15:40	Research on the Coupling Processes of Transmission Lines and Network with Diffused Field within Reverberation Chamber Qingguo Wang, Rui Jia, Zhaoming Qu, Erwei Cheng Coffee / Tea Break		

Room: Neptune

Session: TC 02 HPEM-Coupling/Structures/Cables **Chairs:** Dr. J-P. Parmantier and Dr. S. Tkachenko

ID	Time	Title	
206	14:00 - 14:20	Estimating time-dependent radiation impedance of software instructions with applications to the Random Coupling Mod Joe M. Chen, Ghadeh Hadi, Rusmir Bilalic, David Dietz, Sameer Hemmady, Salvador Portillo, Manel Martinez-Ramon, Edl Schamiloglu	
138	14:20 — 14:40	Revisiting the Calculation of the Early-Time HEMP Conducted Environment N. Mora†, G. Lugrin, J. Becerra, P. Bertholet, M. Nyffeler, B. Daout, F. Rachidi	
110	14:40 - 15:00	HEMP Coupling to RF and LAN Cables	

		Rakesh Kichouliya and Sandeep M satav
188	15:00 - 15:20	Characterization of Attenuation of various Civil Structures for
		High Intensity Transient EM Field
		M. Ratna Raju, D. Ratan Sanjay, Sandeep M. Satav
165	15:20 - 15:40	Modelling EM-coupling on a Massively Composite Aircraft
		J-P. Parmantier, I Junqua, S. Bertuol, T. Volpert, Walid Dyab,
		Ahmed Sakr, Ke Wu, C. Girard, G. Prin, A. Guidoni, G.
		Samarone, F. Moupfouma, W. Tse, K. Nuyten and A.
		Blommers
		Coffee / Tea Break

Poster Session

Wednesday July 26

16:00-17:30

P1-1 Modification of Impulse-Radiating Antenna Waveforms to Obtain Damped Sinusoidal waveforms (101)

D. V. Giri, F. M. Tesche

- P1-2 Malfunction analysis of CMOS IC according to gate output when HPM occur (102) J. W. Park, C. S. Huh, C. S. Seo, S. W. Lee
- P1-3 A Performance Compensation Method for Distorted Spaceborne Phased Array Antennas (120)

Congsi Wang, Yan Wang, Wei Wang

- P1-4 Effect Analysis of an EMP at NPPs (129)
 Song Hae Ye, Ho Sun Ryu
- P1-5 Characterization and Analysis of sensitivity parameters for IEMI effects (137)
 Yong Li
- P1-6 Study and Parametric Analysis of High Frequency Radiations in Communication Network in an Urban Environment (140)

Antim Bala Sharma, O. S. Lamba

- P1-7 Race Track Coil Based Deperming Protocol using Cage System (141)
 Sonal Jain, Ratan Singh, Rizwan Ahmed, Faruk Kazi
- P1-8 Aircraft EM Testing in the 21st Century -- What we have now that we didn't have then (154)

William D. Prather [Withdrawn]

- P1-9 Malfunction of Electronic Equipment by Repetitive Ultra-Wideband Pulse (155)
 Jongwon Lee and Jin Soo Choi
- P1-10 Electromagnetic Simulation of an Integrated Antenna-Source with Directional Antenna Beam Patterns (170)

Kiho Kim, Jiheon Ryu, Jeonghyeon Kuk, Jin Soo Choi

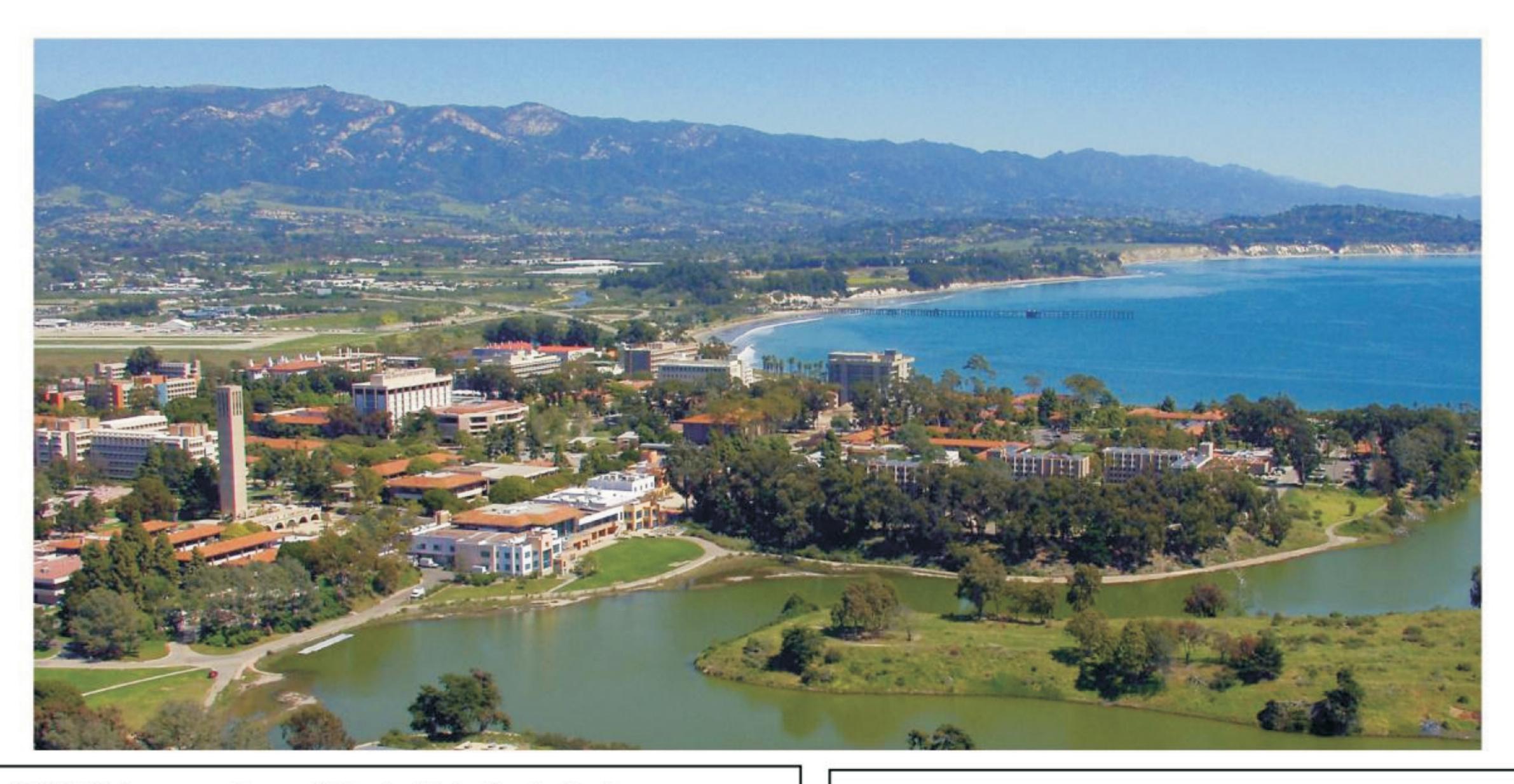
P1-11 Study of the Active Energy Coupling Circuit of Gas Discharge Tube (171)
Sun Wei, Han Pei, Sun Jinru, Chen Jingliang

- P1-12 UWB HPEM Simulator in accordance with IEC 61000-4-36 (181) Jin-Ho Shin, Young-Kyung Jeong, Dong-Gi Youn, Tae-Heon Jang
- P1-13 Research on Lightning Electromagnetic Environment of Electric Multiple Unit (183) Li Mingxiao, Zhang Hongye
- P1-14 The Simulation and Experiment Research for Lightning Direct Effect of CFRP Subjected to Current Component A (192)
 Yao Xueling, Guo Canyang, Sun Jinru, Xu Wenjun, Chen jingliang
- P1-15 Research on High-Voltage GTEM cell for E1 pulse (197)
 Jeong-Ju Bang, Tae-Heon Jang, D.V. Giri
- P1-16 Review on Test Parameters and Tolerances of E1 HEMP Simulator (207)
 Tae Heon Jang, Je Hun Lee





American Electromagnetics Symposium 2018 (August 27-31, 2018)



The next AMEREM symposium will be held in Santa Barbara, California, USA. AMEREM 2018 will continue the AMEREM/EUROEM/ASIAEM tradition of bringing together the:

- √ 23nd High-Power Electromagnetics Conference
- √ 16th Ultra-Wideband, Short-Pulse Electromagnetics Conference
- ✓ 16th Unexploded Ordnance Detection and Range Remediation
 Conference

It's our great pleasure to invite you to join us for AMEREM 2018 Symposium. It provides a forum within the international scientific and engineering community in High-Power Electromagnetics. Internationally renowned experts from many countries are expected to participate.

AWARDS Summa Foundation will announce the awards for the best HPEM notes published over the previous 2 years, and newly elected HPEM Fellows will be recognized.

IMPORTANT DATES

Proposals for Special Sessions 19 February 2018
Paper submission 26 March 2018
Notification of Acceptance 26 April 2018
Deadline for Author Registration 02 July 2018

ORGANIZERS



Conference website:
www.amerem2018.org
(under construction)

For additional info, please contact: W. A. Radasky
Email: wradasky@aol.com

General Information

This conference is sponsored by SUMMA Foundation. The working language of the conference is English. There will be a technical exhibition and a Welcome Reception. A Gala Beach Barbeque Dinner will also be arranged at Goleta Beach.

Conference Location

The conference will be held at the University of California at Santa Barbara (UCSB), which has become one of the most highly rated public universities, especially for its programs in Marine Science and Engineering. UCSB runs many technical conferences during the summer and the conference facilities are excellent for conferences of our size.

Paper Submission

We will only require a single page extended abstract in a US Letter size paper with 2-column format. Paper submissions and reviews will be handled on-line using OpenConf software. Every paper will be reviewed by two independent reviewers and advocated by TC/SS Chairs.

Sponsorship Opportunities

We welcome sponsors for AMEREM 2018. Sponsors will be recognized by logos added to the AMEREM 2018 website with a link to their company website, a company advertisement in the abstract book and a complementary exhibit booth during the conference.



ASIAEM 2019 will be held in Xi'an, China. ASIAEM 2019 will continue the AMEREM/EUROEM/ASIAEM tradition of bringing together the :

- 24th High-Power Electromagnetics Conference (HPEM 24)
- 17th Ultra-Wideband, Short-Pulse Electromagnetics Conference (UWB SP 17)
- 17th Unexploded Ordnance Detection and Range Remediation Conference (UXO 17)

It's our great pleasure to invite you to join us for ASIAEM 2019. It offers a forum within the international scientific and engineering community in High-Power Electromagnetics. Internationally renowned experts will await you in Xi'an. We're looking forward to seeing you in this historically famous city.

Awards

Early Career Award, Best Paper Award, and Best Student Paper Award will be established to encourage outstanding investigators especially young investigators and students to make great contributions in the field of High-Power Electromagnetics.

Important Dates

Open date for submission30th October 2018Proposals for special sessions20th February 2019Paper submission22nd April 2019Notification of Acceptance22nd May 2019Deadline for Author Registration06th July 2019

Conference Email Organizer



Xi'an Jiaotong University, China

Technical Sponsor



SUMMA Foundation

Conference Chair

Yanzhao Xie, Xi'an Jiaotong University, China

Technical Program Committee

TPC Chair: TPC Co-Chair: William Radasky Lihua Shi

Metatech, USA E3OE Laboratory, China

Advisors:

D. V. Giri

Pro-Tech, USA

Edl Schamiloglu

University of New Mexico,

USA

Richard Hoad Lars Ole Fichte

QinetiQ, UK

Helmut Schmidt University,

Germany

International Scientific Committee

WJ. Chen, YZ. Chen, ST. Li, YD. Li, Kasmi Chaouki,	JS. Luo, HG. Ma, C. Meng, K. Mittal, L. Palisek,	SH. Wang, SQ. Zheng, A. Wraight, Janet O'Neill, Jaimin Lee,
<i>M. B</i> ä <i>ckstr</i> öm,	W. Prather,	JG. Wang,
S. W. Choi,	F. Rachidi,	J. Lee,
JH. Deng,	JG. Rhee,	P. Smith,
E. Farr,	F. Sabath,	Dong-Ho Kim,
R. Gardner,	YJ. Yoon,	Shi Qiu,
J. Guo,	D. C. Pande,	P. Zwamborn,
TH. Jang,	M. Nyffeler,	Q. Liu,
S. B. Jeon,	M. Rubinstein,	Nicolas Mora,
A. Kaelin,	Chang-Su Huh,	F. Vega,
A. Wraight,	Woochul Park,	Dhiraj K. Singh,
Jin Soo Choi,	JP. Parmantier,	Jong-Gwan Yook
A. Bhattacharya,		

For more information about ASIAEM 2019, please visit conference website: http://www.asiaem.org

asiaem2019@mail.xjtu.edu.cn



Scope

The Technical Program for ASIAEM 2019 is organized into 18 Technical committees (TCs), as shown below:

Technical Committee	Broad Area	Description	
TC 1	HPEM	Sources, Antennas and Facilities (both wideband and narrowband)	
TC 2	HPEM	Applications of Coupling to Structures and Cables	
TC 3	HPEM	Measurement Techniques	
TC 4	HPEM	IEMI Threats, Effects and Protection	
TC 5	HPEM	System-level Protection and Testing	
TC 6	HPEM	Lightning EM Effects	
TC 7	HPEM	Numerical Models and Modeling	
TC 8	HPEM	Bio-effects and Medical Applications of EM Fields	
TC 9	UWB	Antenna Design, Radiation and Propagation	
TC 10	UWB	Radar Systems (Signal Processing and Security) Aspects	
TC 11	UWB	Target Detection, Discrimination and Imaging	
TC 12	UXO	Landmine and IED Detection	
TC 13	HPEM	Electromagnetic Transients in UHV/EHV Transmission Lines and Substations	
TC 14	HPEM	Design of Protective Devices and Test Methods	
TC 15	HPEM	Evaluation of HEMP/IEMI Impacts on Critical Infrastructure	
TC 16	HPEM	Explosive Devices Effects and Protection for HPEM	
TC 17	HPEM	Statistical Methods in HPEM	
TC 18	HPEM	HPEM Standards	

Special Sessions

In addition to the 18 TCs identified above, we plan to organize special sessions on topics of current interest. You are welcome to submit your proposals to the Technical Program Committee.

General Information

The conference will be organized by Xi'an Jiaotong University in China. The working language of the conference is English. There will be a technical exhibition during the conference. Gala banquet and cocktail/welcome reception are being planned.

Paper Submission

All paper submissions should follow the A4 size Two-Column Format. Each submission will be reviewed by a team of reviewers and can have 1-3 pages containing sufficient information to allow the International Scientific Committee to evaluate their contributions.

Conference Location

As the hometown of Terra Cotta Warriors and Horses, Xi'an is one of the oldest cities in the world with a vivid and rich history and culture.

Sponsorship Opportunities

Sponsors will be recognized by logos added to the ASIAEM 2019 website with a link to their company website, a half page and company advertisement in the abstract book and complementary exhibit booth during the conference.

Contacts:

Liqiong Sun, Jun Guo
Xi'an Jiaotong University, China
lqsun@mail.xjtu.edu.cn, junguo@mail.xjtu.edu.cn

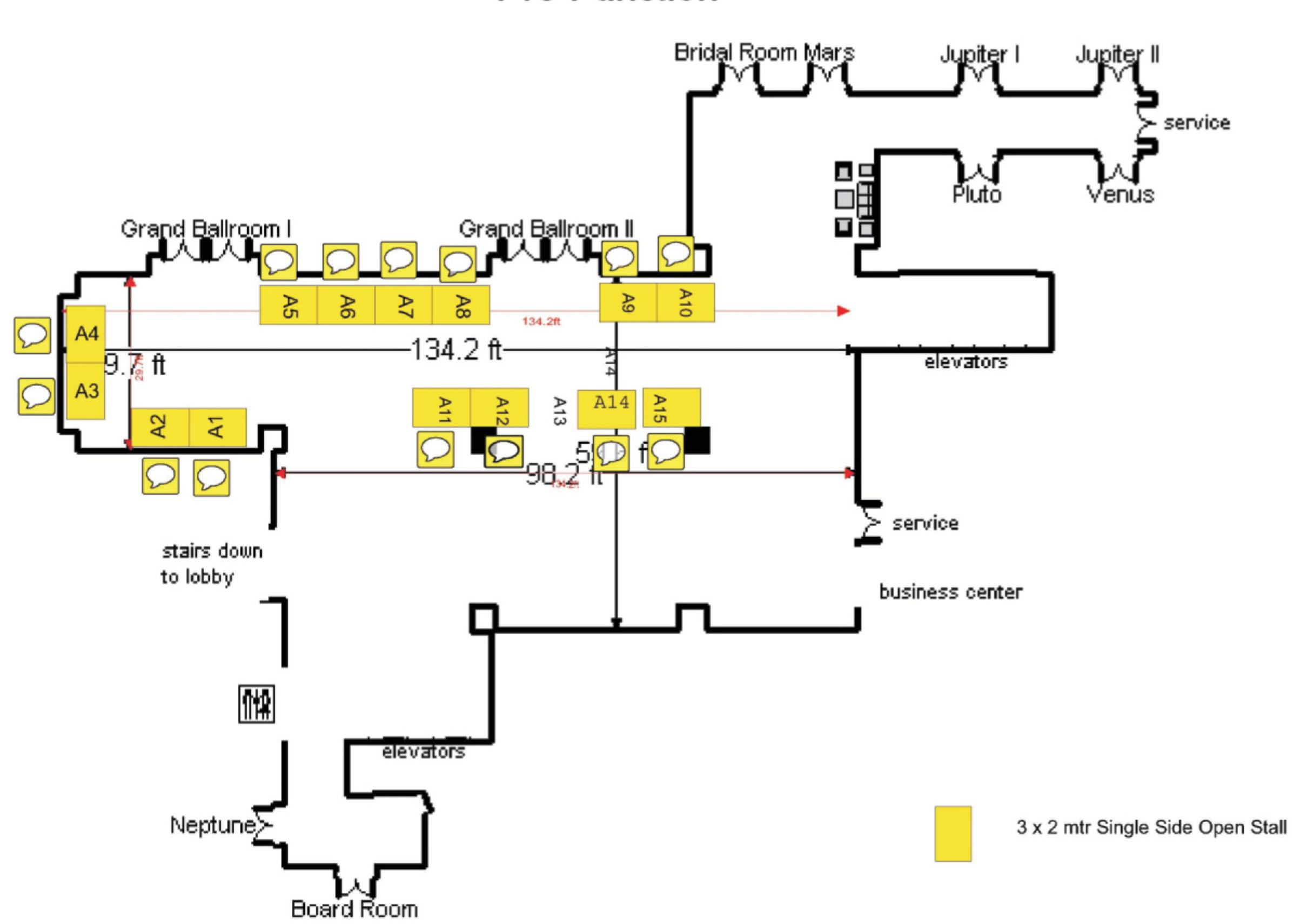
EUROEM 2020

Summa Foundation, USA has approved EUROEM 2020 to be held in Hamburg, Germany. General chair will be Prof. Lars Ole Fichte and Dr. William Radasky will serve as the Technical Program Committee Chair.

Exhibitor Stalls and Names of Companies

#	<u>Stall</u> <u>Number</u>	Name of the Company	Contact Person	email address
01	A1	ETS Lindgren Engineering India Pvt. Ltd., India	Rajasekharan NK Sanjay Singh	Rajasekharan.K@ets-lindgren.com sanjay.singh@ets-lindgren.com
02	A2	Metatech Corporation, USA	Dr. William Radasky	wradasky@aol.com
03	A3	Kapteos, France	Lionel Duvillaret	lionel.duvillaret@kapteos.com
04	A4	APELC - Complus Systems Pvt. Ltd., India	Keshav	complus@complus.in
05	A5	PPM Test, United Kingdom	Joe	Joe.Petrie@ppm.co.uk
06	A6	montena technology SA, Switzerland	François Volery	Francois.Volery@montena.com
07	A7	SSD Polymers, India	Dr. Datta Prasad	ssdpolymers@outlook.com
08	A8	EMI Solutions Pvt. Ltd., India	PR Vijayan	pr_vijayan@emisindia.com
09	A9	CST India	Kannaiyan Pandurangan	Pandurangan.Kannaiyan@cst.com
10	A10	Microwave Vision Group, France	R. Madhavi	madhavi@measureindia.com
11	A11	Dalian Dongshin Microwave Absorbers Co., Ltd., China	Cindy	cindy@isorb.cn
12	A12	Zeonics Systech Defence & Aerospace Engineers Pvt. Ltd., India	Dr. ZH Sholapurwala	zeonicssys@gmail.com
13	A13	XXXXX	XXXX	XXXX
14	A14	Concept Shapers & Electronics Pvt. Ltd.	Mr Amit N Mahajan	amit@conshape.com, business@conshape.com
15	A15	Rohde & Schwarz India Pvt. Ltd., India	Rahul Gautam	Rahul.Gautam@rohde-schwarz.com

Pre-Function







Symposium President Er-Ping LI

erpingli@ieee.org

General Chair

En-Xiao LIU liuex@ieee.org

General Co-Chair

Bruce Archambeault bruce.arch@ieee.org

Technical Program Committee Chair

Jun FAN jfan@ieee.org

Technical Program

Committee Co-Chair Richard Xian-Ke GAO gaoxk@ieee.org

Technical Paper Chairs

Xiaoning Ye Xing-Chang WEI

Special Session Co-Chair Bob Davis

Workshop Chairs

John Maas Martin LEUNG Eng Leong TAN

Special Program Chair Chunfei Ye

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Publicity Chairs
Mike Violette
Janet O'Neil

Caroline CHAN

Exhibition Chairs

Rhonda Rodriguez Chao-Fu WANG

Registration Chair Bonnie Brench

Secretary

Allison LAW emc@cma.sg



Call for Papers

The 2018 Joint IEEE International Symposium on Electromagnetic Compatibility & Asia-Pacific Symposium on Electromagnetic Compatibility (2018 Joint IEEE EMC & APEMC) will take place at the Suntec Convention and Exhibition Center in Singapore from 14 to 17 May 2018. The joint symposium combines the 60th IEEE International Symposium on EMC with the 9th APEMC Symposium. For the former, it is only the 4th time for it to be held outside the North America Continent in 60 years and the first time in Asia over the past three decades. For the latter, it is a homecoming to where the APEMC originated 10 years ago.

The symposium Technical Program Committee invites you to submit your original and unpublished papers in all aspects of electromagnetic compatibility (EMC) as well as signal and power Integrity (SI/PI), including but not limited to EMC/SI/PI design, modeling, management, measurements, and education.

All eligible papers (excluding abstract-reviewed papers) will be submitted for online publication at the IEEE Xplore, and authors will also be invited to submit extended versions of those papers for possible publication in a special issue of the IEEE Transactions on Electromagnetic Compatibility.

Plan ahead and join this unique symposium, meet international colleagues, present your latest research findings, share your insight and perspectives, ask questions, learn from experts and innovators, explore collaborations, visit exhibitions and see new products. Experience Singapore, where east meets west, and much more!

Important Dates

☐ Preliminary Full Paper Submission

(3 to 6 pages in PDF format; without author names & affiliations)

□ Paper Acceptance Notification 16 January 2018

☐ Final Paper Due

28 February 2018

Start: 18 August 2017

End: 24 November 2017

Please visit symposium website for more information about

Topics of Interest

Embedded Conference on SIPI

Call for Special Sessions

Call for Workshops & Tutorials

Call for Abstract Reviewed Papers

Organized by







Supported by



Embedded Conference on SIPI

As high-speed designs continue evolving, signal/power integrity and other EMC problems become tightly related to each other. The embedded conference on Signal and Power Integrity (SIPI), which is an integral part of the 2018 Joint IEEE EMC & APEMC Symposium, provides a unique opportunity for attendees to exchange ideas and share experiences relevant for today's high-speed designs. Topics include but not limited to the TC-10 technical areas.

SIPI-TPC Chairs: Zhiping YANG (zhipingyang@google.com) Er-Ping LI (erpingli@ieee.org)

Call for Special Sessions

The symposium Technical Program Committee is seeking proposals for Special Sessions to be presented at the 2018 Joint IEEE EMC & APEMC Symposium. The proposals may cover any current or emerging areas of EMC, SIPI and related technologies.

Prospective organizers of a Special Session should send their proposals via email to Special Session Chairs: Richard Gao (gaoxk@ieee.org) and Bob Davis (robert.h.davis@lmco.com). Submissions must be in Word or PDF format following the proposal template that can be found at the symposium website (www.apemc.org).

Special Session Proposal Schedule

- Proposals for Special Sessions: 18 August 2017 14 October 2017
- Notification of acceptance: 07 November 2017

Special Session Paper Schedule

- Special Session Paper must be submitted by 23 December 2017
- Notification of review feedback by 22 January 2018
- Final versions of Special Session papers from all authors are due on 28 February 2018.

Call for Workshops & Tutorials

Prospective organizers of workshops and tutorials should send their proposals via email to John Maas (johnmaas@us.ibm.com) and Martin Leung (martin.Leung@cst.com). Submissions must be in Word or PDF format following the proposal template that can be found at the symposium website (www.apemc.org).

Schedule for Workshop & Tutorial Proposal & Presentation Material

- Proposals to be submitted during 18 August 2017 14 October 2017
- Notification of acceptance: 07 November 2017
- Presentation materials from all presenters are due by 05 March 2018.

Call for Abstract Reviewed Papers

Schedule for Abstract Reviewed Papers

- Abstract submissions (about 500 words): 18 August 2017 08 January 2018
- Notification of acceptance: 29 January 2018
- Final Paper Material (1 to 6 pages) due: 28 February 2018
- The abstract reviewed papers will be invited for resubmission to a special issue of the IEEE EMC Magazine.
 When accepted and published, they will be archived in the IEEE Xplore.







ASIAEM 2017







