

## AMEREM – EUROEM – ASIAEM Memos

Memo 11

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(India's 70th Anniversary of Independence)

### Technical Program Statistics for ASIAEM 2017

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In this Memo, we document certain parameters relating to the Technical Program of ASIAEM 2017, held at the Sheraton Grand Bangalore Hotel at Brigade Gateway, Bengaluru 560055, Karnataka State, India during July 23-27, 2017. This Memo series has also been renamed to reflect the fact this meeting is now held in three continents. It is anticipated that future organizers of AMEREM/EUROEM/ASIAEM meetings can benefit from the data presented in this Memo.

The purpose of this Memo is to present some statistics and examine the models of the technical program organization. In Table 1, we present the data about paper submissions and exhibitors.

**Table 1. Quantity of Papers and Exhibitors for ASIAEM 2017**

Number of papers submitted	139
Number of papers rejected	2
Number of Papers voluntarily withdrawn by the authors, primarily because they could not attend the Conference	0
Number of accepted papers not presented	About 20
Number of papers (regular + poster) accepted and scheduled	137
Number of regular session papers (20 minutes)	110
Number of papers accepted for poster sessions	16
Number of plenary session papers (30 minutes)	11
Number of Plenary Session papers not presented	2
Number of workshops/tutorials	0
Number of registered participants	About 158
Number of Sponsors and Exhibitors	15
Other Meetings (Permanent HPE Committee held on 27 July 2017)	1

In Table 2, we present the organizational considerations in the context of ASIAEM 2017.

**Table 2. Organizational Considerations for ASIAEM 2017**

#	Parameter	Symbol	ASIAEM 2017
1	Number of accepted papers including plenary papers	N	137
2	Number of conference days	D	4
3	Number of half days	2D	8
4	Plenary session papers (30 minutes each) (Wednesday AM and PM session)	PS	11
5	Effective number of half days	$H = (2D - 2)$	6
6	Number of poster session papers	PP	16
7	Oral presentations including plenary papers	$M = N - PP$	121
8	Number of presentations/ full session (with 20-minute presentations)	S	6
9	Number of parallel sessions	Integer $[ M / (H \times S) ]$	$121 / (6 \times 8) = 2.52$

- ✓ The Plenary papers were scheduled on Wednesday, 27 July 2017 between 0830h to 1500h.
- ✓ Outside of the Opening Ceremony, Poster Session and the Plenary Session there were 4 parallel sessions.

Note that in ASIAEM 2017, 3 parallel sessions could have accommodated a maximum of  $3 \times 6 \times 8 = 144$  oral presentations. However, the number of parallel sessions is governed by the session topics and not necessarily by trying to fit the papers in a minimum set of parallel sessions. We have chosen 4 parallel sessions to better distribute the papers presented.

In Table 3, we list the various Technical Committees and their respective Chairs and Vice-Chairs.

**Table 3. Chairs & Vice-Chairs for Various Technical Committees and Special Sessions**

<b>Given Name</b>	<b>Family Name</b>	<b>TC</b>	<b>Short Title</b>
D. V.	Giri	1	HPEM-Sources, Antennas, Facilities
Bill	Prather	1	HPEM-Sources, Antennas, Facilities
Jean-Philippe	Parmantier	2	HPEM-Coupling/Structures/Cables
Lars-Ole	Fichte	2	HPEM-Coupling/Structures/Cables
Sergey	Tkachenko	2	HPEM-Coupling/Structures/Cables
Farhad	Rachidi	2	HPEM-Coupling/Structures/Cables
Martin	Schaarschmidt	3	HPEM-Meas. Techniques
Anthony	Wraight	3	HPEM-Meas. Techniques
Lihua	Shi	3	HPEM-Meas. Techniques
Bill	Radasky	4	HPEM-IEMI Threats/Effects/Protection
Richard	Hoad	4	HPEM-IEMI Threats/Effects/Protection
Armin	Kaelin	5	HPEM-System Level Protection and Testing
Yanzhao	Xie	5	HPEM-System Level Protection and Testing
Mats	Backstrom	5	HPEM-System Level Protection and Testing
Farhad	Rachidi	6	HPEM-Lightning EM Effects/Measurement
Marcos	Rubinstein	6	HPEM-Lightning EM Effects/Measurement
Sergey	Tkachenko	7	HPEM-Analytic and Numerical Modeling
Shengquan	Zheng	7	HPEM-Analytic and Numerical Modeling
Lars-Ole	Fichte	8	HPEM-Bioeffects/Medical Applications of EM
Dave	Giri	8	HPEM-Bioeffects/Medical Applications of EM
Koichi	Ito	8	HPEM-Bioeffects/Medical Applications of EM
D. V.	Giri	9	UWB-Ant. Design/Radiation
Everett	Farr	9	UWB-Ant. Design/Radiation
Debalina	Ghosh	10	UWB-Radar Systems/Signal Processing/Security
Vladimir	Koshelev	11	UWB-Target Detection/Imaging
Felix	Vega	12	UXO-Landmine/IED Detection and Neutralization
Xiong	Wu	13	HPEM-EM Transients in UHV/EHV Trans Lines & Substations
Yanzhao	Xie	13	HPEM-EM Transients in UHV/EHV Trans Lines & Substations
Bill	Radasky	13	HPEM-EM Transients in UHV/EHV Trans Lines & Substations
Chaouki	Kasmi	14	Statistical Methods in HPEM
Lars-Ole	Fichte	14	Statistical Methods in HPEM
Sergey	Tkachenko	14	HPEM- Analytic and Numerical Modelling

# SPECIAL SESSIONS

Amitabha Subrata	Bhattacharya Maiti	SS-01	Ground Penetration radar
Edl Amitabha	Schamiloglu Bhattacharya	SS-02	Meta Materials for High-Power Applications
Richard V. K.	Hoad Hariharan	SS-03	HPEM and EMC for Air and Space Systems

Two photographs from the Opening Ceremony at ASIAEM 2017 are shown below. Dr. Kiran Kumar, Chairman of the Indian Space Research Organization gave a keynote speech on India's space activities with an emphasis on how space technology is being used for the benefit of ordinary citizens in India.



Photographs from the Opening Ceremony of ASIAEM 2017 on 24<sup>th</sup> July 2017.

In Table 4, we present paper count by Technical Committees in the order of contributions.

**Table 4. Submission Count by Technical Committees and Special Sessions**

Topic	Chairs	Total	Cumulative
TC 01	Giri and Prather	31	31
TC 04	Radasky and Hoad	14	45
TC 06	Rachidi and Rubinstein	12	57
TC 07	Tkachanko and Zheng	11	68
TC 02	Parmantier, Fichte, Tkachenko and Rachidi	9	77
TC 03	Wraight, Schaarschmidt and Shi	9	86
TC 13	Wu, Xie and Radasky	9	95
TC 09	Giri and Farr	8	103
TC05	Kaelin, Xie and Backstrom	6	109
TC 14	Kasmi, Fichte and Tkachenko	5	114
SS 02	Schamiloglu and Bhattacharya	5	119
TC 08	Fichte, Giri and Ito	4	123
TC 11	Koshelev	4	127
TC 12	Vega	4	131
SS 03	Hoad and Hariharan	3	134
SS 01	Bhattacharya and Maiti	2	136
TC 10	Ghosh	1	137
TOTAL including Plenary and Posters			137

In Table 5, we present submitted papers for ASIAEM 2017 by nations.

**Table 5. Submitted Papers by Nations (arranged in order of contributions) in ASIAEM 2017**

<b>Country</b>	<b>No. Papers Submitted</b>
India	53
China	23
U. S. A.	21
France	9
South Korea	8
Germany	6
Switzerland	5
Columbia	3
United Kingdom	3
Ukraine	3
Japan	2
Russia	2
Sweden	1
<b>Total</b>	<b>139</b>

Some papers are written by multiple authors from different nations. Papers are assigned to the home nation of the contact author, who may or may not be the first author. Out of the 139 submissions, 2 papers were rejected.

Out of the 137 papers that were accepted and listed in the Technical program, approximately 20 papers were not presented for reasons such as:

- 1) Authors that promised to register on site and failed to do so.
- 2) Authors failed to get a VISA.
- 3) Authors did not utilize the walk-in registration option.
- 4) Authors had registered but did not attend the conference.
- 5) Authors did not get permission to present their paper.

If the author registered but could not attend for whatever reason, their paper will be included in the conference records.

Following two awards were given out for:

- a) Best Student Paper Award
- b) Best Early Career Paper Award

We are thankful to Dr. Felix Vega who headed the Awards Committee for ASIAEM 2017. In addition, Carl E Baum inaugural Medal Award was instituted and will be described in a subsequent Memo.