

**EUROEM 2012, Toulouse 2-6 July**  
*Details of TC topics*



## Details of TC topics

Technical Committee	Broad Area	Description	Chairperson, Vice Chairperson
TC 1	HPEM	<p><b>Sources, Antennas and Facilities (both wideband and narrowband)</b></p> <p>Concerns the creation of large fields to carry out system level tests.</p> <ul style="list-style-type: none"> <li>- HPEM and UWB sources,</li> <li>- HPEM and UWB antennas</li> <li>- HPEM test Facilities (EM simulators, Mode stirred chambers, EM installations ...)</li> </ul> <p>*UWB antenna subjects must better be submitted to TC9.                      *This TC includes all EMP and lightning related topics</p>	<p><i>Prather, Giri</i></p>
TC 2	HPEM	<p><b>Applications of Coupling to Structures and Cables</b></p> <p>Concerns applications at large system level</p> <ul style="list-style-type: none"> <li>- HPE coupling on transportation systems and ground installations</li> <li>- HPE Test results and procedures</li> <li>- Numerical simulation and results of HPE</li> </ul> <p>* Issues related to lightning must be addressed to TC6</p>	<p><i>Bäckström, Fichte</i></p>
TC 3	HPEM /UWB	<p><b>Measurement Techniques</b></p> <p>Concerns all the issues related to the quality, reliability and methodology of HPEM and UWB measurements</p> <ul style="list-style-type: none"> <li>- Sensors</li> <li>- Data transmission</li> <li>- Procedures</li> <li>- Metrology</li> </ul> <p>*Specific lightning measurement techniques must be addressed to TC6</p>	<p><i>Sabath, Wraight</i></p>

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TC 4	HPEM	<b>IEMI Threats, Effects and Protection of electronics</b> <ul style="list-style-type: none"> <li>- HPE EM susceptibility</li> <li>- HPE Effects on electronics</li> <li>- HPE Protection of electronics</li> <li>- HPE Tests on electronics</li> <li>- Standardization</li> </ul> *System level is addressed in TC5	<i>Radasky, Hoad</i>

Technical Committee	Broad Area	Description	Chairperson, Vice Chairperson
TC 5	HPEM	<b>System-level Protection and Testing</b> Includes the problem of testing and protection of transportation systems and ground installations. <ul style="list-style-type: none"> <li>- HPE System level EM susceptibility</li> <li>- HPE System level Effects</li> <li>- HPE System level Protection</li> <li>- Standardization</li> </ul> *Electronics issues are to be addressed in TC4 *Does not include lightning protection and testing	<i>Kaelin, Månsson</i>

Technical Committee	Broad Area	Description	Chairperson, Vice Chairperson
TC 6	HPEM	<b>Lightning EM Effects</b> Includes any lightning related topic in EUROEM except sources and simulators to be addressed to TC1. <ul style="list-style-type: none"> <li>- Lightning susceptibility</li> <li>- Lightning Effects</li> <li>- Lightning Protection</li> <li>- Lightning standardization</li> </ul> *Concerns both electronics and systems	<i>Rachidi, Rubinstein</i>

Technical Committee	Broad Area	Description	Chairperson, Vice Chairperson
TC 7	HPEM	<b>Analytical and Numerical Models and Modelling</b> Concerns the development of EM coupling and effects models and their validation. <ul style="list-style-type: none"> <li>- Models and numerical modelling</li> <li>- Validation of models (with measurements, numerical simulation cross-comparisons)</li> </ul> *Numerical applications on complex systems (i.e EM simulation) must be addressed in TC2 for HPE and TC6 for lightning	<i>Tkachenko, Parmantier</i>

Technical Committee	Broad Area	Description	Chairperson, Vice Chairperson
TC 8	HPEM	<b>Bioeffects and Medical Applications of EM Fields</b> Concerns all the effects on human body. <ul style="list-style-type: none"> <li>- EM concepts</li> <li>- Models</li> <li>- Measurements</li> </ul>	<i>Lovetri, Venkataraman</i>

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<b>TC 9</b>	UWB	<b>Antenna Design, Radiation and Propagation</b> Concerns UWB antennas with the following sub-topics <ul style="list-style-type: none"> <li>- concept of UWB antennas</li> <li>- design concepts</li> <li>- performance and characteristics</li> <li>- Models of antennas</li> <li>- Validations (with measurements, with numerical simulation)</li> </ul> *HPEM antenna issues are to be addressed in TC1.	<i>Giri, Farr</i>

<b>Technical Committee</b>	<b>Broad Area</b>	<b>Description</b>	<b>Chairperson, Vice Chairperson</b>
<b>TC 10</b>	UWB	<b>Radar Systems (Signal Processing and Security Aspects)</b> Concerns all the problems related to radars, the fields and the waveforms they radiate. <ul style="list-style-type: none"> <li>- waveforms</li> <li>- signal processing</li> <li>- specific related effects</li> <li>- standardization</li> </ul> *HPE related issues must be addressed to TC1 *This topic includes HIRF on aircraft certification related issues	<i>Mokole, Baker</i>

<b>Technical Committee</b>	<b>Broad Area</b>	<b>Description</b>	<b>Chairperson, Vice Chairperson</b>
<b>TC 11</b>	UWB	<b>Target Detection, Discrimination and Imaging</b> <ul style="list-style-type: none"> <li>- identification of targets</li> <li>- waveform optimization</li> <li>- imaging and classification</li> </ul>	<i>Serafin</i>

<b>Technical Committee</b>	<b>Broad Area</b>	<b>Description</b>	<b>Chairperson, Vice Chairperson</b>
<b>TC 12</b>	UXO	<b>Landmine and IED Detection and Neutralization</b> <ul style="list-style-type: none"> <li>- concepts</li> <li>- applications</li> <li>- numerical simulation and measurements</li> <li>- neutralization</li> </ul>	<i>Rhebergen, Carel</i>

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<b>TC 13</b>	HPE/ UWB/ UXO	<b>Poster session</b> Any of the topics addressed from TC1 to TC12	<i>Besnier, Vollaire</i>