

## TC MTT-14

Reporting period: June-Sept., 2009

**Chair:** Luciano Boglione, l.boglione(at)ieee.org  
**Vice-chair:** Phil Smith, phillip.m.smith(at)baesystems.com

### Mission

Mission is stated on the MTT-14 website at  
<http://www.internationaleventconnection.com/mtt14/mission.html>:

*Mission statement: The role of the Technical Committee on Low-Noise Techniques is to contribute to the development and facilitate the distribution of knowledge in the field of noise and random phenomena occurring in microwave devices, circuits and systems. As such, the Committee interests span a very broad range of topics. These topics include, for example, fundamental research in basic noise-generating mechanisms, noise properties of linear and nonlinear circuits, design of low-noise amplifiers, mixers and oscillators for microwave through optical frequencies. These topics would also include measurement techniques of the noise properties of devices, circuits and systems, as well as the design of complex receivers for ground and space communications and for passive and active remote sensing.*

*The means for fulfilling this role are:*

- *Publishing review and tutorial articles*
- *Origination of special issues of Transactions*
- *Initiation and popularization of standards*
- *Organization of workshops, focused sessions and panel sessions at international symposia supported by MTT*
- *Close collaboration with other Technical Committees of MTT Society, as well as with Technical Program Committees of international and national conferences of interest to MTT Society and its members*

*The Committee consists of a number of experts in the field representing industry, government and academia from around the world.*

### Meetings

- Meeting at IMS on 6/9/09
- Minutes of the meeting available on the MTT14 website  
(<http://www.internationaleventconnection.com/mtt14/mission.html>)

## Membership

- Prof. Paul Tasker retired from active participation in MTT14 on 6/9/09
- Prof. Jeremy Everard has accepted to be active member of MTT14 on 8/20/09
- There are 13 members in MTT14 as of 9/1/09 (members are listed on the MTT14 website)

## Website status

- Webmaster: Luciano Boglione
- Website active and up to date

## Competition

- MTT14 cosponsored the 2009 student competition
- Considering sponsorship in 2010

## Publications

- Coordinating with Microwave Magazine Editor a special issue on noise targeting second half of 2010
  - Jim Randa, Tony Kerr
  - Alfy Riddle, *Review/History of Oscillator Noise analysis*

## IMS workshops

- *SiGe HBTs towards THz operation* to be submitted to IMS 2010 by Paulius Sakalas
  - 7 speakers confirmed

## Events beyond IMS

N/A

## DML and Speakers Bureau status

TCC Speaker Bureau:

- Francois Danneville, *Noise Analysis in Field Transistors Operating Under Small or Large Signal Operation*
- Marian Pospieszalski, *Ultra Low Noise, InP Field Effect Transistors Radio Astronomy Receivers: State -of-the - Art*

## IEEE Award candidate nominations

N/A

## Liaisons to other technical professional organizations

N/A

## Other items to report

N/A

## Plans for next months

- Workshop proposal submission (October 2009)
- Microwave Magazine effort
- Yearly meeting at IMS 2010

## List of members

Alfy Riddle	ariddle(at)ieee.org	
Anthony R. Kerr	akerr(at)nrao.edu	
Fabrizio Bonani	bonani(at)ieee.org	
François Danneville	francois.danneville(at)iemn.univ-lille1.fr	(Past chair)
James Randa	jimranda(at)ieee.org	
Jeremy Everard	jke1(at)ohm.york.ac.uk	
Jim Whelehan	jwhelehan(at)ieee.org	
Luciano Boglione	l.boglione(at)ieee.org	
Marian Pospieszalski	mpospies(at)nrao.edu	
Matthias Rudolph	m.rudolph(at)ieee.org	
Paulius Sakalas	sakalas(at)iee.et.tu-dresden.de	
Phillip Smith	pmsmith(at)ieee.org	(Vice-chair)
Terry Cisco	tcisco(at)ieee.org	