



Karen Dyberg  
Chairperson  
978-440-4022  
kdyberg@ieee.org

Sarah Seguin  
Vice Chairperson  
573-201-4801  
sah@ieee.org

**07 August 2014**  
**IEEE-EMC TC-6**  
**Committee**

## **Technical Committee #6 (TC-6) Meeting Minutes**

Website: <http://www.emcs.org/committees/tc06/>

Location: Raleigh, North Carolina; Convention Center

- 1.0 Chair K. Dyberg called the meeting to order at 7a.m. Introductions were made.
- 2.0 Meeting minutes from the August 2013 meeting were discussed and approved.
- 3.0 The committee membership status and officers were discussed and the following notes were made
  - Officers:
    - Present officers were elected during the 2012 convention. These officers will serve until the 2014 convention period.
  - The member list and roster were discussed and it was noted that the membership status of individuals should be checked and criteria set.
- 4.0 The symposium activity of 2014 was discussed.
  - The symposium paper review status (top paper, reviewing procedure, etc) was discussed
  - The following discussion followed:
    - 2 TC6 papers were nominated for best paper award
      - On Modeling Wireless Radio-Frequency Energy Propagation in Below-Deck Ship Spaces Gregory Tait and Carl Hager, Naval Surface Warfare Center (NSWC)-Dahlgren, Dahlgren, VA , USA
      - On Intermittent OFDM Transmitter Saturation and Radar System, Brian Cordill and Sarah Seguin, University of Kansas, Lawrence, KS, USA
    - Sponsored a demonstration performed by Rohde and Schwarz called “LTE Interference from Consumer Devices”. A video of the demo was recorded by EDN Magazine.
    - Friday will be a full day tutorial “Introduction to Spectrum Engineering”. Planned speakers are Randy Jost, Brian Farmer, Larry Cohen, Darren McCarthy, Bill Wangard, and John Stine
    - Member article in EMC Magazine on “Spectrum Supportability Risk Assessments” by B. Farmer
    - Paper in IEEE EMC Transactions – Spectrum Analysis Considerations for Radar Chirp Waveform Spectral Compliance Measurements, by L. Cohen, et al.
    - Paper in MTT Magazine – A Peak-Search Algorithm for Load-Pull Optimization of Power-Added Efficiency and Adjacent-Channel Power Ratio, by L. Cohen, et al.
    - Inserted Spectrum Engineering topics into radar conference tutorial presentation on transmitters by R. Jost and L. Cohen

- Future TC6 activities (2014, 2015 and beyond) were discussed as follows:
  - Bob Johnk will help solicit authors for next year's symposiums (Dresden and Santa Clara)
  - Larry Cohen mentioned Charles Bayliss as a possible author. Larry and Sarah will try to create a couple of papers for Dresden.
  - Attendees are hoping that they can participate in the Dresden symposium via WebEx
  - DoD E3 and Spectrum Management Symposium – perhaps have at the EMC Symposium either in 2016 (Ottawa) or 2017 (DC)
  - Meet via telecom monthly – pick time and day – choices were the first Tuesday of the month or every other Thursday
  - The TAC wants an iNarte volunteer from each TC. Karen volunteered.
  - Tom mentioned that the NTIA, Fred Moorefield and Mark Johnson are supporting a spectrum engineering certification test and will help with the questions
  - Larry mentioned that Frank Sanders (NTIA) created a YouTube video on Spectrum Engineering
  - Randy proposed a link to the video via the RF café for Education and Student Activities (ESAC)
  - Someone mentioned having a special session in Dresden and involve the NATO spectrum people
  - List of TC6 members who were authors and co-authors in 2014: Larry Cohen, Sarah Seguin, Bill Cordhill, Bob Johnk, Randy Jost, and John Stine
  - Another one of Larry's papers (co-author) was accepted for the IEEE proceedings for 2015, "Radar Spectrum Engineering and Management: Technical and Regulatory Issues"
  - John will also have a paper published in 2015 in the IEEE Journal on Selected Areas of Communication, "Enabling Spectrum Sharing via Spectrum Consumption Models"
  - Janet O'Neil would like to see some more Spectrum Engineering articles in the EMC magazine
  - Randy suggested we on education material, adding portions of the tutorial to our web page or the education page, or even make a primer on spectrum management
  - How are we inserting TC6 into other venues?
    - Darren contributes to various other conferences and makes presentations
    - John is very involved in IEEE Standard 1900.5.2 – Method for Spectrum Consumption Modeling
    - Larry is chair of the IEEE Std. 377 review and is involved in many spectrum issues at radar and microwave symposia
    - Sarah is the vice co-chair of SC6 Unmanned Aircraft Systems EMC
    - Sarah is vice chair of the ESAC and Randy is responsible for the student Experiments Manual
    - Tom attends the ANSI C63.7 Wireless Co-Existence meetings
- The TC6 report and matrix were generated for the Friday TAC meeting.

5.0 The meeting was adjourned at 9a.m.