



**IEEE Electromagnetic Compatibility Society  
Technical Advisory Committee**

**Meeting 1 Draft Minutes**

Monday, 9 July 2007

Convention Center, Rm 323A, Honolulu, Hawaii  
*0700 to 0900 (2 hours)*

**Original Agenda**

- |    |  |                    |
|----|--|--------------------|
| 1. | (5 min) Call to Order, Introductions/Opening Remarks | Scully             |
| 2. | (5 min) Consent Agenda Motions                       | Scully             |
|    | 2.1. Approve 2007 Agenda                             |                    |
|    | 2.2. Approve 2006 Minutes                            |                    |
| 3. | (30 min) Future of TC3                               | Scully             |
| 4. | (20 min) TC11 Nanotechnology Creation                | Chris Hollaway/All |
| 5. | (10 min) NARTE Activity                              | Brian Lawrence     |
| 6. | (10 min) Co-Sponsorship Status/Discussions           | (Wallen?)/All      |
| 7. | (40 - 60 min) 2008 Symposium Involvement             | Williams/All       |
| 8. | Adjourn  |                    |

**Topic #1 Call to Order, Introductions/Opening Remarks**

The meeting was called to order at 7:10am by Bob Scully. Everyone Present introduced themselves

Attendees:

Bob Scully  
Bruce Archambeault  
Arto Chubukjian  
Kimball Williams  
John Norgard  
Doug Kramer  
Jim Nadolny  
Bill Strauss  
Dave Southworth  
Frank Sabath

Barry Wallen  
Graham Kilshaw  
M. Sabrina Sarto  
Bill Radasky  
Chris Holloway  
M. D'Amore  
Tom Fagan  
Richard Georgerian  
Jun Fan

## Topic #2 Consent Agenda Motions

Approval of 2006 meeting minutes was delayed until the second TAC meeting because some members had not received the email with the minutes. The meeting agenda was approved.

## Topic #3 Future of TC3

Bill Strauss gave a summary of TC3 (EM Environments)

- TC3 is struggling for officers
- they have consistent membership
- the number of papers and paper reviewers is about the same
- they have provided session chairs
- proposal to merge TC3 and TC6 (Spectrum Management) failed in 2005
- number of papers and members about the same as many other TCs
- Topics that might have fallen into TC3 have been absorbed into other TCs
  - Lightning → TC5 (high power EM)
  - Ultra Wideband → TC7 (non-sinusoidal fields)
  - SAR → TC8 (EM product safety)
- Options?
  - Dissolve
  - Re-align
    - Before dissolving, Bill recommends an internal TAC and external TAC review of each TC's mission
- Recommendations:
  - Keep status quo
  - Pursue new membership
  - Look for new projects
    - Airport/Aircraft environment
    - Subterranean
    - biological effects (non-safety)
- Bob Scully can help get NASA individuals to become active
- Bill Radasky commented:
  - Customers are needed
  - Maybe other TCs are customers
  - possibly the SAE
- Don Cramer commented that Detroit 2008 will be a good place for the SAE push
- Bill Strauss commented that members are there for paper review
  - John Archer is TC secretary
  - Craig Simmons may volunteer in a year or so
  - Bill Strauss is mostly alone at the moment for TC 3 leadership
- Bob Scully commented that he would report to the BoD that Bill Strauss has a plan to move forward
- Bill Strauss expects ~20 attendees at the Tc3 meeting
  - expects to have a vice chair by end of 2007
- Bill Radasky suggested a tutorial to show the status for this area
  - Bill Strauss agreed this was possible and he will try and organize a presentation on each environment
- Bob Scully noted that environments are important and TC3 should not be disbanded but change is needed
- Dave Southworth suggested shipboard and under water environments. He will do some recruiting

- Chris Holloway commented that he had some names to help with membership
- Bob Scully asked Bill Strauss to report back to the TAC during the TAC meeting.

#### **Topic #4 TC11 Nanotechnology Creation**

--Chris Holloway stated:

- two years ago they were asked wait to create TC11 to gauge interest.
  - Sabrina Sarto made a presentation to the TAC and stated that nanotechnology has moved from basic research to applied research
    - Recent activities
      - 2004 workshop in EMC Europe
      - 2005 EMCS workshop
      - 2007 EMCS workshop
    - This technology needs:
      - understand the basics
      - develop simulation tools
      - develop test technologies
    - She explained why nanotechnology does not fit into other TCs
    - She commented that other groups are moving fast in this area and the EMCS is being left behind
    - She commented we need to bridge the gap
    - examples of carbon nanotube structures
      - SI, PI,
      - radiated emissions
      - shielding
    - need multiscale modeling
      - EM testing at nano-scale
      - Multi-scale EMC design
- Chris proposed that he and Sabrina will serve as co-chairs for TC11 on Nanotechnology
- John Norgard moved the create TC11, Kimball Williams seconded
- Bill Radasky expressed his support
- Sabrina commented that other international societies are doing things that are not technically correct
- Prof D'Amore commented that he suggested forming TC11 five years ago. EMCS is very late in this area. Nano-technology is #2 in Europe for research money, and that a revolution is going on in this area.

The motion passed unanimously

#### **Item #5 NARTE Activity**

- Kimball Williams reported that NARTE is now INARTE (for international)
  - they plan to diversify tests away from US and Mil Std only and focus on other standards
  - he requested more questions to help with this new focus
- Richard Georgerian asked if there would be a new title for the new test questions
- Kimball stated that the divergence of questions was for applications and not theory
- Questions for review were passed to the various TC chairs, and they were asked to have them reviewed and back to the NARTE booth by the end of the week.

- A suggestions was made to distribute the questions by pdf file over the internet.
- Kimball responded that they were concerned about questions being posted on the internet
- Bill Strauss reported that originally people had to sign for questions
  - hard to keep people on task because of other commitments
- Tom Fagan commented that NARTE already sells the book with all the questions
- Kimball responded that those are old questions that have been ‘retired’, but they are similar to the newer ones
- Kimball mentioned that he can set up a meeting in Detroit (2008), and in the past, NARTE provided al the references.
- Tom Fagan asked if the questions for world-wide would be in english, and Kimball responded ‘yes’
- Kimball will report on Thursday about the scope and number of questions
- Bill Strauss commented that he had a sheet with all the codes for the questions and he would provide a copy to Bob Scully

### **Item #7 2008 Symposium Involvement**

- Kimball commented that the TCs can send requests to his committee
- Bob Scully pledged that the TAC would provide whatever help is needed. He also stated that the TAC officers are ready to help the Technical Program Chair, even as co-chairs, if desired. Kimball expressed appreciation and promised to pass the comments to Mark Steffka
- Bill Strauss expressed concern about the number of simultaneous tracks for technical papers in 2007, and questioned the plans for 2008
  - Bill also expressed concern about “poster papers” vs. “Interactive format” vs “Close Format”, stating he feels the interactive format title to be better, and without stigma
  - Bob Scully stated that the “poster” session is better understood in Asia
- Kimball reported the plan for 2008 is four tracks and poster sessions. (total of 192 papers)
- Bill Strauss suggested using the Wednesday pm session only for poster sessions and have parallel poster sessions. Kimball reported he would take this suggestion back to the committee
- Richard Georgerian asked if the number of tracks determined the number of papers to accept. And Kimball responded ‘yes’

### **Item #6 Co-Sponsorship Status/Discussions**

- Barry Wallen led the discussion
- Bob Scully reported that five out of seven requests were approved by TAC
- Barry Wallen suggested that equal weight from each TC might skew the results since one or another TC might know a lot about a given request (or very little about a topic area).
  - Barry suggested each TC provide comments back to the BoD to help the Board make the final decision.
- Bob Scully stressed that the TAC can only do technical review
- Bill Strauss commented that the BoD should make the political decisions before the request comes to TAC
- Barry Wallen explained that the Board needs input from TAC so they can make a more informed decision. If the Board counters the TAC recommendation, then the Board should send a note to TAC explaining the reason for their decision.

- Barry Wallen expressed a need to document things like the number of parallel sessions for the VP Conferences.
- Bob Scully requested a rough draft of the process. Barry replied there was some documentation, and it is more than TAC needs, but less than the overall Society needs.
- Barry Wallen explained the process:
  - Request for technical co-sponsorship should go through Graham Kilshaw
  - Need to finalize the requirements and post them on the web site
  - the Conference must provide three no-cost registrations
- Bob Scully, Don Herriman, and Bill Crossant will draft the document, and the draft will be sent to all TC chairs.

The meeting was adjourned at 9:10am