

MINUTES  
of  
TSCC MEETING  
Held  
May 3, 2005  
Aberdeen, MD  
Four Points Sheraton Hotel

The meeting was called to order by Chairman Scott Brierley at 0840 hours.

Members and Alternates present:

Dan Bonham	Member
Scott Brierley	Member
Dan Dawson	Member
David Grebe	Member
Sheila Horan	Member
Sid Jones	Alternate
George Manz	Member
James Yates	Member

**ATTENDANCE AND DETERMINATION OF QUORUM**

David Grebe

Not a quorum (10 of 16 required)

**REVIEW AND APPROVE AGENDA**

Scott Brierley

**OFFICER REPORTS**

Chair

Scott Brierley

Vice Chair

James Yates

Secretary-Treasurer

David Grebe

The minutes of the Fall meeting held October 18<sup>th</sup>, 2004 at the Town and Country Hotel in San Diego were reviewed and approved without correction.

The Financial Report showed expenses of only the TSCC web site hosting were incurred since the past meeting.

Action Item Review

Scott Brierley

## COMMITTEE REPORTS

### Nominating Committee

Lee Eccles (not present)

Discussed possible Government candidates to replace Cliff Aggen. Dan suggests we plan the Spring meeting to coincide with RCC meeting to make it easy on travel budgets.

Action: Jim and Sid to call Gene Law and Phil Macias and ask them to be on the nominating committee. They could concentrate on finding a Government type.

Action: Lee to continue to find nominees for vacancies and get help on the nominating committee. George Manz volunteered to help.

### Radio Frequency

Scott Brierley

IRIG 118 pink sheets were reviewed. Filtered QPSK testing. New section being added to the 118. Scott detailed many of the technical findings. One finding was that with mismatched load, it referenced other sections in an unclear manner. Noted: This test method also can be applied to all the variants of F-QPSK.

### Data Multiplex

Ed Snyder (not present)

No report.

### Networking and Protocols

Dan Dawson

No review actions, but industry working to extend Chapter 10 to allow operation with XML to address holes in Chapter 10. Also touched on TMATS possible work to support XML but task not clear where that comes from.

Sid expressed concern about recording network acquisition data sources and perhaps Chapter 10 belongs in Part I, not this new Part II. He suggests that IP would be a more universal type. Acquisition, Recording, Data Forward – these are the goals to move and deliver data, so do we really want to continue to attempt to develop “special-standards” on the ranges? Jim asked if any system level work is being done. Because the Chapter 10 Mux format is basically an “80’s mentality” to solve the problem of commodities, it will get vendor-specific implementation and still not inter-operate, yet be compliant. It allows a promise of keeping/putting the legacy data types to be mixed, transferred, recorded in a “standard format”. Sid suggests contacting Tim Chalfont & Fil Macias with TG concerns around this issue. Sid also asks for more feedback by vendors/industry to TG’s so that specs are reflective of design-parameters as well as performance based. Can ranges and vendors work for INET to come about to get away from the Chapter 10 mandate? Ranges also have the problem of OT follow on so can’t afford the prime contractors to do their own implementation. Dan suggests the Networks Part II efforts be done at an Object level and let the industry differentiate on implementations. But, the ranges could again be stuck with many different hardware sets that are inoperable.

Dan Bonham commented that his operational guys attended a meeting and got a brief that Chapter 10 was the way to go but the decision was to stay with Teac as it served the project needs at hand.

Discussions moved to JPEG 2000 standard ... seems an industry standard adopted. Many feel this is the way to go. Scott verified, Boeing launcher use wavelet but with proprietary hardware. It worked great, but no upgrade path and incompatible with newer viewers.

**Transducers**

Lee Eccles (not present)

No report.

**Coding / Data Compression**

Sheila Horan

Sheila has more contacts in industry and suggests TSCC web site could contain the compression information she's compiling. She's noticed that these are IRIG compression specs ... too many issues per flight and launch, especially throughput delay: users may want that last piece of data before an "event occurred" so can't wait for processing to complete and there's video compression! Dan pointed out that compression can reduce network throughput delay by reducing the amount of data. CCSDS has compression specs for interplanetary mission.

**Recorder / Reproducer**

David Grebe

No docs to review but David Grebe received a report from Joe Lloyd (NAVAIR) as follows: "The R&R Committee has completed TG-78 (Updates to Ch 10 Recording Standard). This should be released when IRIG 106-05 is published in the next several months. We have also completed an Omnibus Funded project giving users and industry a validation tool to check recordings as to their compliance with the Ch 10 standard. The committee is continuing to develop a solid state ground recording standard."

**Old Business**

TSCC Session Papers for ITC 2005

Erwin Straehley

TSCC Session – 1<sup>st</sup> successful (2003), 2<sup>nd</sup> (2004) only had 1-TSCC member's paper. For 2005, no papers and no paper session and the Tech Chairman has not been contacted. Jim's suggestion: a panel discussion in 2006 to discuss state of TM vs. communication and network commercial standards. Perhaps send out query to industry and report the results as well.

Action: inform all TSCC members & alternates of this suggestion and bring ideas to Fall meeting.

Q: Should TSCC send a questionnaire or distribute it @ ITC registration that might allow the responses to be grouped per Academic, Vendor and Government. Good sampling of the community. Questions like: Usefulness of standards, new standards needed in what areas or not needed. Jim will coordinate this. The resulting data and topics uncovered will feed a panel discussion at 2006 ITC. Perhaps it would be good to conduct this survey on line via the TSCC web site.

Sid to ask IFT if TSCC can access e-mail list of ITC 04 for the survey.

TSCC Award for Larry Rauch

Merv MacMedan (not present)

Larry Rauch award ideas: IFT asked for more details of selection process and pointed out cash prizes is inappropriate. For now, this subject is deferred until the Fall meeting when members are more familiar with Larry and the IFT are present.

## **New Business**

Need volunteer to update TSCC web site Scott Brierley  
(issues – formatting of phone / e-mail vs. names) – Terry S. would like to relinquish this responsibility. Discussed possibility of re-hosting as a Yahoo group, as it provides more functions. General consensus that keeping the domain name is important. Web site survey eventually. Perhaps as TSCC's role expands, there will be more need for features, but for immediate time frame, just need to keep up with it. Ed Snyder and Dan Dawson volunteered. Ed will volunteer for now and at the Fall meeting we will review goals of an improved web site. E-mail all TSCC members to come to Fall meeting with ideas what it should encompass. (review DOC's links, links to standards, ...)

Dave Grebe to update and send to everyone a TSCC distribution list.

There as a discussion about the combination of lack of quorum and only meeting twice a year does not allow actions to be taken as quickly as needed, especially if it involves an upcoming ITC.

Question: Can we have virtual meetings and then have votes via e-mail? Then we can get things accomplished between meetings. Sheila pointed out we may lose the ability for discussion.

Joint TSCC/RCC-TG Meeting Sid Jones  
Joint Meeting Discussion: Sid Jones presented the case for this. RCC collects folks from many ranges for information exchange and specification development. However, command briefs and tour security, etc, issues prohibit vendor attendance. On a controlled, task by task basis, have been able to invite vendor participation. To avoid appearance of vendor favoritism, the idea is that RCC will ask TSCC to attend and so can interact as a whole vs. on a task basis. Perhaps as an invitation for TSCC to interact with RCC.

Dan motioned we take a poll of members in favor of attending August RCC meeting @ PAX River.

Joint Booth ITSC & TSCC @ ITC Scott Brierley  
There's been a request for a Joint Booth with ICTS – needs to be staffed (not empty) – purpose of booth: Perhaps survey voting  
Problems: TSCC members typically have no time to be in the booth, no new agenda for TSCC, so what to promote? Perhaps in future.  
Actions: Scott: invite IFT for agenda items and discuss TSCC role in future.

**Tuesday, 4 May 2005**

Tour of Aberdeen

Meeting Adjourned