

INTERNATIONAL FOUNDATION FOR TELEMETERING Spring 2011 TSCC Meeting Vandenberg AFB

> March 2, 2011 Marriott Hotel Santa Ynez Valley

Agenda						
1700 Call to Order	Nicolo					
1715 Attendance and determination of Quorum	Grebe					
1725 Review and Approve Agenda	Nicolo					
1730 Officer Reports						
Chair	Nicolo					
Secretary-Treasurer Approval and review of last Minute	Grebe S					
Financial Status						
Action Item Review	Nicolo					



1800 Committee Reports

Nominating Committee	Horan
New nominations/follow-up on mer	nbers
Changes since Last meeting	
Radio Frequency	Brierley
Data Multiplex	Fleury
Networking and Protocols	TBD
Transducers	Eccles
Coding/Data Compression	Horan
Recorder / Reproducer	Klein
ETSC Report	Mayer
19:20 Break	

19:30 Old BusinessNicoloFall Meeting 2010:How did joint session go?Best Paper AwardImage: Session content of the session conten



20:00 New Business All iNet Fall special Session at the ITC 2011 (C-Band, Bit Sync Standards...) Best Paper Award 21:00 Adjourn All



INTERNATIONAL FOUNDATION FOR TELEMETERING Call to Order

and Attendance

March 2, 2011 Marriott Hotel Santa Ynez Valley

Members and Alternates

Members		Alternate		
	Last	First	Last	First
	Bender	Mark		
	Brierley	Scott	McNatt	William
	Eccles	Lee	Grant	Robert
	Klein	Wayne		
	Horan	Sheila	Marcellin	Michael
	Kazz	Greg	Greenberg	Edward
	Klein	Lorin	Buckley	Mark
	Corry	Diarmuid		
	Macias	Filiberto	Balizan	Ernesto
	Mayer	Gerhard	Freaud	Gilles
	Nicolo	Steve	Carlson	John
	Moodie	Myron	Abbott	Ben
	Skelley	Dan	Malatesta	William
	Weaver	Charles		
	Fleury	Brad	Trepa	Rob
	Telles	Teresa		
	Rymer	Bill		
	MacMedan	Merv		
	Straehley	Erwin		

Attendance & Quorum Determination

Meeting called to order at 17:00					
Attendees were					
Mark Bender (m)					
Scott Brierley (m)					
Lee Eccles(m)					
Brad Fleury (m)					
Edward Greenberg (a for G. Katz)					
Sheila Horan (m)					
Greg Kazz (m)					
Lorin Klein(m)					
Wayne Klein (a for D. Grebe)					
Filiberto Macias (m)					
Myron Moodie (m)					
Steve Nicolo (m)					
Chuck Weaver (m) Legend:					
Teresa Telles (RCC TG-Chair) (m) Is a member					
(a) Is an alternate					
A quorum of members was present. (*) Invited Guest/past member					



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Chairman's Report

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Significant Activity

- No standards reviews since ITC
- Best telemetry standards paper was awarded at ITC 2010
- Web Master Resigned
- Two meetings of the TSCC were held 2010
 - (Spring) April 20 in Newport News/Hampton VA.
 - (Fall) October 25th in San Diego in conjunction with ITC

Significant Activity

Special Session was held at ITC 2010 (Joint TSCC/RCC)

- TSCC Portion (iNet Standards Implementation-3 different views)
 - Three TSCC members presented information about their connection with and application of Draft iNET standards.
 - TSCC volunteers: Lorin Klein, Lee Eccles, and Dan Skelley. James Yates moderated the session
 - This session has been created to stimulate dissemination of information and discussion about future telemetry standards.
- RCC Portion
 - Presented RCC Reports

Current TSCC Focus Areas

New Telemetry Standards – iNET Membership recruiting Web Site : New Web Master Fall meeting will be at Bally's in Las Vegas, NV Oct 24-27 – date of meeting not set; may coordinate with CCSDS and ITC. Best paper Award

Open Actions

- All members need to look at and comment on iNET standards
- Need to look at Fall special Session what do we want to do?
- Diversity of membership to replace James
- Alternates needed for Macias, Weaver, Fluery, Bender
- Vice-Chair needed



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Secretary-Treasurer Report

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Treasurer Report for the Period 10/22/10 thru 2/24/11

INCOME	
 Funding Received, IFT 	\$0.00
EXPENDITURES	
Web Hosting	\$ 0.00
Net Increase (Decrease) in Cash	\$ 0.00
 Beginning Cash Balance 	\$ 1,445.22
Ending Cash Balance	\$1,445.22



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TSCC Spring 2011 Committee Reports

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)



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TSCC Spring 2011 Nominating Sub-Committee Report

> March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Membership

Sheila Horan – NMSU/ODU
Scott Brierley - United Launch Alliance
Chuck Weaver - Dynetics, Inc.

Sub-Committee Focus

- The nominating sub-committee shall propose TSCC members and officers for approval by the membership.
- Prospective TSCC members and officers can be nominated by the TSCC membership or by a nominating subcommittee.
- All nominations must be approved by a membership vote.

TSCC Membership Rules

- Adequate representation shall always exist from the diverse groups constituting the telemetry community
- Representatives of government and commercial entities shall each constitute a minimum of onethird of the regular TSCC Membership
- The remaining one-third may include, but is not limited to those in commercial, governmental, and academic organizations
- Membership by representatives of non-US entities shall not exceed 25% of the total regular membership

TSCC Group Definitions

- Government entities are defined to include agencies of the United States Government, foreign governments, and not-for-profit organizations under contract to them
- Commercial entities are defined as manufacturers or vendors of equipment, software, or systems, for-profit companies that use telemetry equipment, and suppliers of telemetry-related services, such as consulting, on a for-profit basis.

TSCC Membership Terms

TSCC Membership Terms are for five years

- Terms are staggered so that the terms of 20% (rounded to the nearest integer) of the regular membership end each year
- Members may be re-nominated for additional terms by the nominating sub-committee.
- Greg Kazz's term expired Fall 2010 we decided to postpone the vote until the spring. Greg has indicated that he would like to continue, and we recommend that his term be extended for another 5 years.
 - This Fall 2011 Brierley, and Skelley will have reached the end of their terms. Nominating committee will ascertain if they are willing to serve and we will vote at the fall meeting.

TSCC Makeup

The TSCC currently consists of

- 2 academic organization members
- 6 government entity members
- 8 commercial entity members
- Members from commercial entities belong in two different groups:
 - Telemetry equipment suppliers
 - Telemetry equipment users

TSCC Membership

*as of October 2010

- Academia
 - Sheila Horan, PhD
 - Gerhard Mayer
- Government
 - Loren Klein
 - Greg J. Kazz
 - Filiberto Macias
 - Dan Skelley
 - Myron Moodie
 - Mark Bender

- Industry
 - Scott Brierley
 - Lee Eccles
 - *David Grebe
 - Diarmuid Corry
 - Steve Nicolo
 - *James A. Yates
 - Brad Fleury
 - Chuck Weaver
- Ex-Officios
 - Robert Givens
 - Bill Rymer
- Members Emeritus
 - Merv MacMedan
 - Erwin (Terry) Straehley

TSCC Membership The Aerospace Corporation United Launch Alliance ACRA Control, Inc. Boeing Commercial Airplane Co. Edge Consulting Apogee Labs, Inc. New Mexico State University

TSCC Membership

- NASA- Jet Propulsion Laboratory
 USAF
- White Sands Missile Range
- GVM-Consulting/AIRBUS
- Southwest Research Institute
- GDP Space Systems
- NAVAIR
- Dynetics, Inc.

Two Open Membership Slots

- With the resignation of David Grebe and James Yates There are two open membership slots in the TSCC
- Nominating committee Recommends that Wayne Klein be voted in as a full member to replace David.
- Nominating Committee also recommends that Wayne Klein take over as Secretary/Treasurer

New Membership

Possible new members

- One new member needed wireless/satellite area?
- Currently searching for nominees
- Voting on Alternates:
 - Bob Dison alt for Chuck Weaver
 - Rob Trepa alt for Brad Fleury
 - Hyong Yi alt for Diarmuid Corry
 - Chris Braun alt for Fil Macias

TSCC Chair

- TSCC Chair Term expired after the 2010 Fall meeting
 - Officers shall serve for a two year term of office
 - The term of office shall begin at the start of the TSCC Year in even calendar years
 - Traditionally the Vice-Chair succeeds to the Chair's position to fulfill a two year term as Chair
 - The Secretary-Treasurer may be re-elected

Steve Nicolo has taken over as Chair of the TSCC

- Vice-Chair seat is still open
- All Committee Chairs are currently filled

Open Actions

Nominating Committee Motions and Action Items:

- One open membership slot
- One Vice-Chair position open.
- One alternate position open Mark Bender



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"TSCC Spring 2011 RF Subcommittee Reports"

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Membership

Scott Brierley

- Mark Bender
- Mark Dapore
- Brad Fleury
- Lloyd Lautzenhiser
- Eugene Law
- Warren Martin
- Bill McNatt
- Rich Siegal

Subcommittee Focus

 RF Subcommittee reviews standards dealing with the Radio Frequency (RF) telemetry link

Current standards

- RCC IRIG-106
- RCC IRIG-118
- RCC RF Handbook
- CCSDS-401
- CCSDS-411
- SGLS
- STDN
- 1451.5

Significant Activity No standards reviewed since the Fall meeting



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TSCC Spring 2011 Data Multiplex Subcommittee

Brad Fleury March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Membership

Brad Fleury – New Data Multiplex committee chair.

Alternate – Rob Trepa, Director Edge Consulting and Sales

Sometimes both of us will attend, but at least one will attend.

Membership

Membership – Current list

Bob Downing (NEW) Howard Eckstien (TBD) Alain Hackstaff (TBD) Bill Rymer Jack Sheldon (NEW) Dave Sniffin Erwin Straehley Duane Wheaton Chuck Weaver

I am in the process of adding new members

Membership - Continued

I am in the process of inviting members

 still in the process of figuring out how
 much work this will require

Amergint (Mark McMillen, or member of his team)

 L-3 Communications – James Yates, Kevin Ireland (or member of the L-3 team)

Measurement specialties – Danny Uehara

Sub-Committee Focus

Current standards

- IRIG-106
 - Part 1: Telemetry Standards
 - Chapter 3: FM Data Standards
 - Chapter 4: PCM Data Standards
 - Chapter 8: Bus Data Formatting Standards
 - Chapter 9: TMATS
 - Part 2: Telemetry Networks
 - Chapter 4: Packet Telemetry Standards
- RCC IRIG-118: Test Methods
- RCC IRIG-119: Telemetry App's Handbook

- TMATS Handbook Significant amount of work has gone into the handbook over the last year.
- TMATS XML Schema
- Chapter 10 recorder standards as it relates to TMATS
- Best Source Selection (BSS) Standards

Continued pushing need for standard for BSS. RCC to start discussions in March 2011

Open Actions

- Action Finalize subcommittee members and get agreement to participate
- Support RCC ongoing efforts on future TMATS Handbook releases
- Support RCC ongoing effort to keep TMATS IRIG 106 Chapter 9 and XML Scheme Current
- Explore possible related INET activities

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 Networking & Protocol Subcommittee Report

> March 2, 2011 <u>Santa Ynez Valley Marriott</u> <u>Buellton, California</u>

James Yates left the TSCC. We are working on getting new chair for this subcommittee.

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 Transducer Committee Report

March 2, 2011 Santa Ynez Valley Marriott Buellton, California

Membership

Lee Eccles, Chair – Boeing Test & Evaluation

No list maintained

Subcommittee Focus

Transducer Standards
 Current Standards
 IEEE 1451 Family

IEEE 1451.2

- Point to Point Digital Transducer Standard
 - UART Interface Standard
 - SPI Interface Standard

 This revised standard is approaching the balloting stage
 The Ballot invitations have been released.

Significant Activity EEE 1451.4 TEDS associated with an analog Transducer This standard is being revised The balloting closed March 1 The committee needs to review the ballots to decide whether to change it or submit it to IEEE for approval & Publication

TELEMETERING STANDARDS COORDINATION COMMITTEE



INTERNATIONAL FOUNDATION FOR TELEMETERING TSCC Spring 2011 Coding and Data Compression Sub-committee Report

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Membership

Sheila Horan, Chair - NMSU

- Michael Marcellin, Alternate Univ. of Arizona
- Chuck Creusere NMSU;
- Stephen Horan NMSU;
- Aaron Kiely JPL;
- Matt Klimesh JPL;
- M. MacMedan emeritus;

Membership - Continued

- George Nelson Delta Information System;
- Jimmie Perkins Raytheon;
- Khalid Sayood Univ. of Nebraska Lincoln;
- Pen-Shu Yeh NASA Goddard;
- Gary Thom Delta Information System;
- Steve Nicolo GDP Space Systems

Sub-Committee Focus

Data Compression and Coding
 Current standards – updates

CCSDS

 CCSDS 353.O-R-1 Symmetric Encryption reviews were due 2009

 CCDSD 131.0-P-1.2 TM Synchrous Channel coding – reviews due by 4/19/2011

- CCSDS MULTISPECRAL HYPERSPECTRAL DATA COMPRESSION WORKING GROUP (SLS-MHDC)
 - Preparing the promotion to Red Book and agency review of CCSDS 123
 "Lossless Multispectral & Hyperspectral Image Compression" this year
 - Will start looking at a possible lossy compression scheme

 CCSDS- SPACE LINK CODING & SYNCHRONIZATION WORKING GROUP - work in progress

Update TM channel coding Blue book with LDPC codes	Blue
Update TM channel coding	Green –
green book	Info. report
Revision of space link protocol – coding & sync sublayer	Blue
Produce Blue book for SCC Codes	Blue

 Significant Activity
 CCSDS- SPACE LINK CODING & SYNCHRONIZATION WORKING GROUP work in progress

Produce Blue book for	Blue
DVB-S2 codes	
TM Channel coding & applications profiles	Magenta – best current practice
Erasure correcting codes for Near-earth & Deep space com	Orange - Experimental specification

- iNet: Online files for System Management Standard, RF Network element Standard, iNet Com Link Standard, Test Article Standard, and Metadata Standard were reviewed. Sections relating to this committee are:
 - iNet Com Link Stnd section 4.5
 - RF Network Element Standard Section 11 on Encryption

Open Actions

Complete information table for website
Update membership
Review iNet documents
Request input from committee on CCDSD 131.0-P-1.2 TM Synchrous Channel coding

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 Recorder / Reproducer Committee Report

March 2, 2011 Marriott Hotel Santa YnezValley (Vandenberg)

Membership

Lorin Klein, Chairman Mark Buckley (JDA Systems, Concord, CA, USA) Alternate Chairman Balázs Bagó (Heim Systems GmbH, Bergisch) Gladbach, Germany) •Bob Baggerman (Georgia Tech Research Institute, Atlanta, GA, USA) •Tim Chalfant Tim Gatton(Wyle Laboratories, California, Maryland, USA) •Mike Lockhard(EMC Corp, Irvine, California, USA)

Subcommittee Focus

Data Recorders, Ground and Airborne

Standards in Place

• <u>IRIG 106-09-</u>-Range Commanders Council (RCC) Telemetry Standards

http://www.irig106.org/docs/106-09/

• <u>STANAG 4575</u>–North Atlantic Treaty Organization (NATO) Standard Agreement (STANAG) –NATO Advanced Data Storage Interface (NADSI) Allied Engineering Documentation Publication (AEDP)

http://www.nato.int/STRUCTUR/AC/224/standard/4575/4575.htm

• <u>ANSI INCITS 175-1999 (R2004)19mm</u> Type ID-1 Recorded Instrumentation Digital Cassette Tape Format (revision and redesignation of ANSI X3.175-1990 (R1995)

• <u>MIL-STD-2179</u>–Helical Digital Recording Format For 19-MM Magnetic Tape Cassette Recorders/Recorders

RCC Telemetry Group Recorder Reproducer Committee

•Completed Pink Sheet review of IRIG 106-11 and will be published during the summer of 2011.

STANAG 4575, AEDP-3, AEDP-6

RCC Document 118-10 Test Methods August 2010 Pink Sheet Summary

- Title Change: Document 118 Volume IV -TEST METHOD FOR DIGITAL RECORDER/REPODUCER SYSTEMS AND RECORDER MEMORY MODULES –Completely new document describing how to test digital recorders and RMMs.
- Specifies test methods for RCC Document 106-09 with subsequent releases trailing each release of 106 by 2 years
- Only the basic packet types covered by the METS-231 are included in this release
- Future interoperability workshop will produce a set of "Golden Files" for potential incorporation

Significant Activity RCC Document 106-11 Ch 9 Telemetry Attributes Transfer Standard (TMATS) August 2010 Pink Sheet Summary

Provided guidance on case sensitivity and blanks

- Added new group relationships involving the "R" (Recorder/Reproducer) Group
- Recorder/Reproducer (R) Group Attributes added:
 - Increased field size for Manufacturer and Model
 - User Defined Data Packets and Channel ID
 - Recording Events Channel ID
 - Event Data Processing Enabled
 - Event processing
 - •Recording Index Channel ID
 - •Input Stream De-randomization
- Added new TSPI/CTS data type

Significant Activity RCC Document 106-11 Ch 10 Pink Sheet August 2010 Pink Sheet Summary

The Committee is using a Change Request (CR) protocol to manage the activities under the -11 Update Release task.

- CR 11 Added note clarifying bit settings with one channel (Section 10.6.5.2)
- CR 19 -Added new data type TSPI/CTS (Time-Space-Position Information and Combat Training System) data type (Section 10.6.16)
- CR 32 –Added and refined definitions of Reproduction and Reconstruction (Section 10.2 and 10.6)

Significant Activity RCC Document 106-11 Ch 10 Pink Sheet August 2010 Pink Sheet Summary (cont.)

- CR 33 -Changed "can not" to "shall not " in "Packets shall not contain only filler or shall not be idle or empty. All packets that are generated shall contain data." (Section 10.6.1.e.); included a note for duplicated text from STANAG 4575 variations, updated the Table of Contents, and corrected other minor errors
- CR 37 Updated Directory Block Format (Section 10.5.2.c)
- CR 38 -Removed the statement: "The TMATS file identifies the number of samples contained within each packet" (Section 10.6.5.2.b)

Significant Activity RCC Document 106-11 Ch 10 Pink Sheet August 2010 Pink Sheet Summary (cont.)

 CR 40 – Specifies the "Discrete Packet Channel Specific Data Word" length to be 32 bits (Section 10.6.6.2.a)
 CR 41 – Clarified PCM format and removed redundant language in Section 10.6.2.2 Significant Activity STANAG 4575 From 16 Sep 2010 Custodial Support Team Meeting Minutes

Current Status

- Latest version is Edition 3, 8 May 2009
- Defense IT Standards Registry (DISR)
 - AEDP-3 (Allied Engineering Documentation Publication) Advanced Data Storage Technology Memory Systems Sanitization Guide –No changes
 - AEDP-6 NATO Advanced Data Storage Interface (NADSI) Implementation Guide -Change 1 approved in Jan 2010

Significant Activity STANAG 4575 Technical Considerations

Technical Considerations

 Partitioning (segmenting) of RMM –CST issued an Action item to solicit recommended approaches to segmenting future RMMs including supporting download.

 Desire for a low cost alternate RMM physical interface; begin looking at next generation download interface (NADSI after Fibre-Channel; or, NADSI II)

Significant Activity STANAG 4575 Technical Considerations (cont)

RMM Power Issues –Need was highlighted to reevaluate current technology and trends. --expect call for recommendations from users and manufacturers
Given current issues with partitioning, physical interface, power, future STANAG 4575 activity will be HIGH.

Significant Activity Next STANAG CST Meeting

 Next STANAG 4575 Custodial Support Team (CST) meeting 30 March 2011, Dynetics, Inc. Corporate Headquarters, 1002 Explorer Blvd. NW, Huntsville, Alabama, USA.

Custodian, Ms Jennifer Hart (Jennifer.Hart@pentagon.af.mil)

•Tom Canniere, 610-992-8765, (Cell) 484-686-4820 Cannieret@saic.com

Open Actions

RCC publication of RCC Document 118-10 and IRIG 106-11 Summer of 2011

STANAG CST –30 March, 2011

Upcoming request for recommended approach for segmenting (partitioning) of RMM with "use case" and ground station implementation
Strong consideration for substantive update to 4575 in the near future.

"Heads-up" to the user and vendor communities!"

TELEMETERING STANDARDS COORDINATION COMMITTEE



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"TSCC Spring 2011 ETSC Report"

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Membership

Committee Chair Gerhard Mayer, Gilles Freaud (A) Subcommitee Chair SC-1: RF Spectrum & Frequ. M ´nt Jean-Claude Ghnassia, Jean Isnard (A) SC-2: Data Acquisiton & Processing Werner Lange, Christian Herbepin (A) SC-3: Data Recording & Storage Steve Lyons, Balasz Bagó (A) (A)...Alternate

Subcommittee Focus(1)

 SC-1 (RF Spectrum): Spectrum availability & efficient techniques, data integrity in the transmission channel

Current Standards

- IRIG 106-09, Chapter 2+Annex A&M
- IEEE 802.11n/15.3/15.4
- DVB-T & OFDM derived industry standards (ETSI EN300 744 V1.6.1)

Subcommittee Focus(2)

- SC-2 (Data Acq): Ensure acquisition and time tagging in high-rate data streams
- Current Standards
 - IEEE 1451
 - IEEE 1588
 - IEEE 802.11.n/15.1/3/4
 - IRIG 106-09, Chapter 3
 - IRIG 218-07 (TMoIP)

Subcommittee Focus(3)

SC-3 (Data Recording): Info collection & dissemination on recording system and techniques

Current Standards
 IRIG 106-09, Chapter 10
 XidML 3.0

Significant Activity

ETSC open meeting at the ETC 2010

Reviewing RF classical modulation standards, comparison with OFDMbased techniques

Review and comments on IRIG 106-Ch.10

Open Actions

"WRC`07" C-band for AMT, RF standards

- IEEE 802.n and UWB as a basic standard for wireless intra-aircraft RDA-networking
- Track emerging standards Cognitive Radio Systems, IEEE 801.15&22, IEEE1900
- New Subcommittee on iNet (SC.4), call for officers & nomination
- ETTC 2011: ETSC Open Meeting
 (Venue: Toulouse Centre de Congrès 16 June, 2011)

ETTC 2011, Toulouse, 16 June 2011, 11 am Preliminary Agenda

- Committee Reports: *ETSC, RCC TG, TSCC, CCSDS*

 Round Table Discussion:
 Standardization of future measurement systems, configuration file format & interfaces

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 Old Business

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

Old Business

- Review/vote on support letters and alternates.
- Joint session TSCC/RCC ITC
- 2010 ITC Special Session
- 2010 Best Standards Paper Award

Old Business

- Best Telemetry Standards Award was presented at ITC 2010: IHAL and WEB Service Interfaces to Vendor Configuration Engines
- Two meetings of the TSCC were held 2010
 - (Spring) April 20 in Newport News/Hampton VA.
 - (Fall) October 25th in San Diego in conjunction with ITC

Old Business

- Special Session was held at ITC 2010 (Joint TSCC/RCC)
 - TSCC Portion iNet Standards Forum iNet Standards Implementation- (Views from 3 different TSCC members on the application of the Draft Specifications)
 - Dan Skelley: prospective from a TSCC member of iNET
 - Lee Eccles: discussed a like system in use (Boeing)
 - Lorin Klein: Eglin's perspective on iNET
 - This session was created to stimulate dissemination of information and discussion about future telemetry standards.

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 New Business

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)

New Business

- New Telemetry Standards iNET
- Membership recruiting (1 Additional Member)
- Fall meeting will be at ITC Bally's in Las Vegas, NV Oct 24-27 – 8:00 AM to Noon on Monday
- TSCC Web Master Retired. Must re-host TSCC Site and get new Web Master
- Best ITC Standards Based Paper Award
- Presentation at EETC in France

New Business

- Proposed Special TSCC Session at ITC 2011
 - C-Band Open Forum
 - Presentations
 - Antenna's
 - Receivers
 - Transmitter
 - Physics of C-Band
 - What the working group is doing?
 - Open Forum
 - Q & A Session
 - Open discussion with the panel

TELEMETERING STANDARDS COORDINATION COMMITTEE



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TSCC Spring 2011 Adjourn

March 2, 2011 Marriott Hotel Santa Ynez Valley (Vandenberg)