

TIA TR-42 Liaison to IEEE 802.3

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**Vice Chair, TIA TR-42 Telecommunications
Cabling Systems Engineering Committee**

**Vice Chair, TIA TR-42.7 Copper Cabling
Subcommittee**


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San Francisco, CA


Introduction to TIA

- **Telecommunications Industry Association**
- **www.tiaonline.org**
- **TR-42: Defines mechanical and transmission requirements for copper twisted-pair, optical fiber, and coaxial cabling and components**

Agenda and Meeting Overview

- **June 13 – 17 in Quebec City, CAN**
- **Review TR-42 sub-committee activities**
 - **10 sub-committees met**
- **Update on project development**
-  **This symbol highlights key points of interest**

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling):**
 - **ANSI/TIA-568-C.1-2, “General Updates” approved for publication**
 - **New project: ANSI/TIA-942-A, “Telecommunications Infrastructure Standard for Data Centers” circulating for industry ballot**
 -  – **New project: ANSI/TIA-568-C.0-2, “General Updates” circulating for default ballot**

TR-42 Activities

- **TR-42.2 (Residential Infrastructure):**
 - **New project: ANSI/TIA-570-C, “Residential Telecommunications Infrastructure” circulating for industry ballot**
- **TR-42.3 (Pathways and Spaces):**
 - **New project: ANSI/TIA-569-C, “Commercial Building Standard for Telecommunications Pathways and Spaces” circulating for default ballot**

TR-42 Activities

- **TR-42.3 (Pathways and Spaces), cont.:**
 - **ANSI/TIA-568-C.1-1, “Commercial Building Telecommunications Cabling Standard, Addendum 1 Pathway and Spaces” approved pending publication of ‘569-C**
- **TR-42.4 (Outside Plant):**
 - **No active projects**
 - **Group in “hibernation”**

TR-42 Activities

- **TR-42.5 (Terms and Symbols):**
 - **Definitions, acronyms, units of measure, and symbols maintained in a working document**
- **TR-42.6 (Infrastructure Administration):**
 - **New project: ANSI/TIA-606-B, “Administration Standard for Commercial Telecommunications Infrastructure” circulating for industry ballot**


TR-42 Activities

- **TR-42.7 (Copper Cabling):**
 - **New project: TIA-1183, “Test Fixtures for Balunless Measurements of Balanced Components and Systems” circulating for industry ballot**
 - **New project: TSB-1197, “Mode Conversion Parameters for Balanced Twisted-Pair Cabling” under development**

TR-42 Activities

- **TR-42.7 (Copper Cabling), cont.:**
 -  – **New project: ANSI/TIA-568-C.2-1 “Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100Ω Next Generation Cabling” under development**

TR-42 Activities


- **TR-42.7 (Copper Cabling), cont.:**
 -  – **Four “100Ω Next Generation Cabling” Task Groups established**
 - 1. Cable TG**
 - 2. Connector TG**
 - 3. Applications Space TG**
 - 4. Capacity Task TG**

**Contact the Chair of TR-42.7
(sterling.vaden@occfiber.com) for
participation information**

TR-42 Activities

- **TR-42.9 (Industrial Infrastructure):**
 - **New project: ANSI/TIA-1005-A, “Telecommunications Infrastructure Standard for Industrial Premises” circulating for default ballot**

TR-42 Activities

- **TR-42.11 (Optical Fiber Systems):**
 -  – **ANSI/TIA-568-C.3-1, “Optical Fiber Cabling Components Standard – Addendum 1, Addition of OM4 Cabled Optical Fiber and 24-fiber array connectors” approved for publication**
 - **OM3 and OM4 loss budgets under study**
 - **Encircled flux test methodology under study**

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables):**
 - **New project: TIA-455-7/FOTP-7, “Numerical Aperture” circulating for committee ballot**
 - **New project: TIA-455-28/FOTP-28, “Dynamic Tension” circulating for committee ballot**
 - **New project: TIA-455-80/FOTP-80, “Patch Cord Wavelength” under development**
 - **Task group formed to study bend-insensitive multimode fiber**



TR-42 Activities

- **TR-42.13 (Passive Optical Devices and Components):**
 - **Subcommittee did not meet**
 - **40 published Standards to be reaffirmed (refer to contribution: TR42-2011-06-093)**
 - **New project: TIA-455-34A, “Interconnection Device Insertion Loss Test” under development**

TR-42 Activities

- **TR-42.13 (Passive Optical Devices and Components), cont.:**
 - **TSB-140, “Additional Guidelines for Field-Testing Length, Loss and Polarity of Optical Fiber Cabling Systems” to be withdrawn**
 - **Return loss calibration under study**
 - **Power meter linearity under study**
 - **New multimode launch conditions (TIA-455-34/FOTP-34) under study**

TR-42 Activities

- **TR-42.16 (Grounding and Bonding):**
 - **ANSI/TIA-607-B “Telecommunications Grounding (Earthing) and Bonding for Customer Premises” approved for publication**

Upcoming TIA Meetings

TR-42 Plenary Meetings

October 3 - 7, 2011

San Antonio, TX

www.tiaonline.org

Thank you

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