

TIA TR-42 Liaison to IEEE 802.3

Valerie Maguire

Vice Chair, TIA TR-42

Vice Chair, TIA TR-42.7


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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

- **February 7 – 11 in San Diego, CA**
- **Review TR-42 sub-committee activities**
 - **11 sub-committees met**
- **Update on project development**
-  **This symbol highlight key points of interest**

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling):**
 - 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” under development
 - New project: ANSI/TIA-568-C.1-2, “General Updates” under development

TR-42 Activities

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

TR-42 Activities



- **TR-42.3 (Pathways and Spaces), cont.:**
 - **New project: ANSI/TIA-568-C.1-1, “Commercial Building Telecommunications Cabling Standard, Addendum 1 Pathway and Spaces” circulating for default ballot**
- **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 committee ballot**

TR-42 Activities


- **TR-42.7 (Copper Cabling):**

-  – **ANSI/TIA-568-C.4, “Broadband Coaxial Cabling and Components Standard” approved for publication**
-  – **TSB-190, “Guidelines on Shared Pathways and Shared Sheaths” approved for publication**
- **TSB-1197, “Mode Conversion Parameters for Balanced Twisted-Pair Cabling” under development**

TR-42 Activities

- **TR-42.7 (Copper Cabling), cont.:**
 - **New project: TIA-1183, “Test Fixtures for Balunless Measurements of Balanced Components and Systems” circulating for industry ballot**
 -  – **New project: ANSI/TIA-568-C.2-1 “Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100Ω Next Generation Cabling” initiated**

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 industry ballot**

TR-42 Activities

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

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables):**
 - **FOTP-122 , “Adoption of IEC 60793-1-48: Optical Fibres - Part 1-48: Measurement Methods and Test Procedures-Polarization Mode Dispersion” approved for publication**
 -  – **Task group formed to study bend-insensitive multimode fiber**

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables),
cont.:**
 - **New project: FOTP-244, “Expressed Tube Cycling” under development**
 - **New project: FOTP-7, “Numerical Aperture” under development**
 - **New project: FOTP-28, “Dynamic Tension” under development**
 - **New project: FOTP-80, “Patch Cord Wavelength” under development**

TR-42 Activities

- **TR-42.13 (Passive Optical Devices and Components):**
 - **Return loss calibration under study**
 - **Power meter linearity under study**
 - **New multimode launch conditions (FOTP-34) under study**
 - **Multiple new projects expected to be initiated in June**

TR-42 Activities

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

Upcoming TIA Meetings

TR-42 Plenary Meetings

June 13 - 17, 2011

Quebec City, Quebec, CAN (TBD)

www.tiaonline.org

Thank you

Contact Information:

Valerie Maguire

**The Siemon Company
101 Siemon Company Drive
Watertown, CT 06795**

phone: (602) 228-7943

valerie_maguire@siemon.com