

**MARCH 2015 IEEE 802 PLENARY SESSION
TUTORIAL SCHEDULE**

ALL SECTIONS OCCUR MONDAY MARCH 8, 2015

Please check the current schedule (<http://802world.org/attendee>) for room information.

SECTION #1 **6:30 to 8:00 PM**

TITLE OF TUTORIAL: **Real-time Ethernet on IEEE 802.3 Networks**

NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:

Presenter(s) Name:	Affiliation:	Email Address:
Ludwig Winkel	Siemens	Ludwig.Winkel@Siemens.com
Michael J.Teener	Broadcom	mike@JOHASTEENER.COM
Albert Tretter	Siemens	albert.tretter@siemens.com
Stephan Kehrer	Hirschmann (Belden)	Stephan.Kehrer@belden.com
Christian Boiger	HDU	christian.boiger@hdu-deggendorf.de
Pat Thaler	Broadcom	pthaler@broadcom.com
Norm Finn	Cisco	nfinn@CISCO.COM
David Brandt	Rockwell Automation	ddbrandt@ra.rockwell.com
Helge Zinner	Bosch	

ABSTRACT:

There have been multiple networks based on propriety technology or specialized standards developed to support carrying highly time sensitive traffic for applications such industrial automation and automotive control. Some of these are modified Ethernet networks. The efforts in IEEE 802.1 Time Sensitive Networking and P802.3br Interspersing Express Traffic provide an example of bringing together the requirements of those applications to provide a standard network that can support traffic requiring deterministic delivery time for real-time communication along with traditional traffic. This tutorial will cover the fundamentals of the projects and how they work together to fulfill the requirements of the various verticals.

SECTION #2 **8:00 to 9:30 PM**

TITLE OF TUTORIAL: **Introduction to P802.3bn EPON Protocol over Coax (EPoC)**

NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:

Presenter(s) Name:	Affiliation:	Email Address:
Mark Laubach	Broadcom	Laubach@broadcom.com
Duane Remein	Huawei	Duane.Remein@huawei.com
OTHERS		

ABSTRACT:

This is the second in a two part P802.3bn EPoC overview. Topics include OFDM channels, OFDM/OFDMA framing, 1D to 2D upstream mapping, and downstream and upstream electrical requirements for operating on cable operator coax networks.

SECTION #3**9:30 to 11:00 PM****TITLE OF TUTORIAL: IEEE802.15.7r1 – Expanding User Experiences****NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Presenter(s) Name:	Affiliation:	Email Address:
Richard Roberts	Intel Corporation	richard.d.roberts@intel.com
Zhengyuan (Daniel) Xu	University of Science and Technology of China	xuzy@ustc.edu.cn
Harald Burchardt	PureLiFi Ltd.	harald.burchardt@purelifi.com
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Yeong Ming Jang	Kookmin University	yjang@kookmin.ac.kr
Stefan Mangold	Disney Research	stefan.mangold@disneyresearch.com

ABSTRACT:

This presentation is about the use of light wavelengths for communications and presents the new use cases that will be enabled by adding additional PHY/MAC features as a revision to the IEEE802.15.7 VLC standard (Visible Light Communications – to be expanded to include IR and UV). Featured are uses cases (i.e. PHY enhancements) that enable using the existing camera image sensor as a receiver (Optical Camera Communications) and use cases that enable data rates ~10x higher than the existing 15.7 VLC standard (approaching 1 Gbps) using dedicated optical detectors.