

**JULY 2013 IEEE 802 PLENARY SESSION
TUTORIAL SCHEDULE**

ALL SECTIONS OCCUR MONDAY JULY 15, 2013

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

SECTION #1 **6:00 to 7:30 PM**

TITLE OF TUTORIAL: White Rabbit - Ethernet-based solution for sub-ns synchronization and deterministic, reliable data delivery

NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:

Presenter(s) Name:	Affiliation:	Email Address:
Maciej Lipinski	CERN / Warsaw University of Technology	maciej.lipinski@cern.ch

ABSTRACT: (a brief paragraph describing content of the presentation)

White Rabbit is a project that aims to create an Ethernet-based network with low-latency, highly reliable, deterministic data delivery and network-wide, transparent, high-accuracy timing distribution. The White Rabbit Network is based on existing standards (IEEE 802.1, 802.3, IEEE 1588) and enables sub-nanosecond synchronization of thousands of devices spanning over several kilometers. Conceived as a next-generation control and timing system for Particle Accelerators such as those at CERN, it is rapidly finding new scientific and commercial applications. Its components, developed as open hardware and software designs, are being commercialized and becoming available off-the-shelf. An ongoing effort attempts to include a White Rabbit extension to IEEE1588 into the standard.

This tutorial provides insight into time and data distribution in the White Rabbit Network and explains its application as a control and timing system for CERN's accelerators. Information about the project can be found at: www.ohwr.org/projects/white-rabbit.

SECTION #2 **7:30 to 9:00 PM**

TITLE OF TUTORIAL: Interspersing Express Traffic 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
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Norm Finn	Cisco	nfinn@CISCO.COM
Dan Sexton	GE	sextonda@GE.COM

ABSTRACT: (a brief paragraph describing content of the presentation)

There is a need for support of time sensitive traffic in a converged traffic environment in IEEE 802.3 networks that supports interspersed express traffic and the traditional normal traffic. This would help address the requirements in markets such as industrial and automotive control networking, where control data is time-sensitive and often requires minimum latency. This tutorial will examine the needs of time sensitive traffic in IEEE 802.3 networks, the support for interspersed express traffic and the ordinary traffic, and will provide background for the PAR proposed by the IEEE 802.3 Distinguished Minimum Latency Traffic (DMLT) Study Group.

SECTION #3**9:00 to 10:30 PM****TITLE OF TUTORIAL: IEEE-SA IoT Effort Overview and FAQs****NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Presenter(s) Name:	Affiliation:	Email Address:
Wael William Diab	Broadcom	wdiab@broadcom.com

ABSTRACT: (a brief paragraph describing content of the presentation)

1. Intent of this tutorial is to present an overview of the IoT effort in the IEEE-SA. A sample agenda can include:
 - a. Overview of IEEE-SA IoT Activity, including
 - a. History
 - i. BoG ad-hoc in 2012
 - ii. BoG assignment and scope to current group
 - b. Goals
 - c. Participation (getting involved)
 - i. Including: everyone invited to participate. No entity requirement. No IEEE / IEEE-SA membership requirement. Open to all.
 - b. Review of Communications to 802
 - a. Letter regarding relevant standards from March.
 - b. Letter regarding participation in verticals from May.