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## Topic: SMPTE ST 2059 Operation, Interoperability and Applications

**Date:** Tuesday, April 12, 2016

**Time:** 7:00 pm (*Pizza & Pop Dinner is provided at 6:30pm*)

**Location:** Rogers Communications Centre - Ryerson University  
Room RCC-204 - Eaton Lecture Theatre, 80 Gould Street

**Arranged By:** Jordan Sweigman & Tony Meerakker

**Sponsor:** Microsemi Corporation

### Precision Time Protocol (PTP) operation

**Speaker: Peter Meyer, System Architect Manager, Microsemi**

The broadcast industry is migrating towards an all-IP environment. One critical aspect needing to enable the transition is the accurate distribution of synchronization to all WAN and studio/LAN scenarios over Ethernet/IP. SMPTE has recently standardized ST-2059-2, the Professional Broadcast Applications profile, based on IEEE1588 standard. This presentation will introduce the basics of Precise Time Protocol (PTP) operation, the greenfield and brownfield deployment scenarios, the details of the SMPTE profile, generic equipment design and the challenges of deploying the technology (such as QoS and the impact of packet jitter).

### SMPTE ST2059 Interoperability and Applications

**Speaker: Leigh Whitcomb, Associate Architect, Imagine Communications**

**Speaker: Paul Briscoe, Consultant**

Paul Briscoe and Leigh Whitcomb are co-authors of SMPTE ST 2059. To assist the industry with deployment of 2059 equipment, SMPTE is running a series of interop testing events. These events are developed to uncover and resolve issues with the standards and incompatibility between various vendors. These events are also looking into items such as compatibility between the SMPTE 2059-2 profile and AES67 profile. The goal of the interops is to ensure a smooth and easy deployment of 2059 equipment. 2059 and PTP are a key technology for applications such as legacy genlock, AES67, TR03 (essence over IP) and TR04 (A/V alignment over IP).

The presenters will provide an overview of synchronization methods in use today and how they can be fully replaced using ST 2059 in addition to examining how ST 2059 accommodates network-based media infrastructures including operation of AES67 and TR-03. The scope of the industry interop testing will be presented including an update on current progress and status of this work.

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The SMPTE Board of Managers will meet in RCC-102 starting at 4:45 PM.

***Pizza & Pop Dinner is provided at 6:30pm, there is no break between presentations***

