



# Society of Motion Picture and Television Engineers

## Detroit Section Meeting Notice

### December, 2010

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**DATE: Wednesday, December 8, 2010** (Note date & time)

**TIME: 6:00 PM refreshments - 6:30 PM program**

**LOCATION: Sirius XM**

27200 Haggerty Rd., Suite B5  
Farmington Hills, Mich. 48331

**SPEAKER: William M. Ashe**

Senior Engineer, Sirius XM Radio

**SUBJECT: Comparison of 4G Systems and How They Relate to  
the Automotive and Aerospace Industries**

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**Joint Meeting with IEEE Southeastern Michigan Chapter**

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**NOTE: SPACE LIMITED AND RSVP REQUIRED**

Due to limited seating capacity, there will be room for approximately ten SMPTE attendees. Reservations available on a first-in basis. Those wishing to attend **must RSVP** to Louis Johnson IV via e-mail: louisjohnsoniv@comcast.net by close of business Tuesday, Dec. 7. Thanks to Louis, a member of both SMPTE and IEEE, for his efforts in setting up this program.

This is a period of great change for the telecommunications industry. The rise of smartphones and tablets have pushed the current 3G networks to their maximum. This has prompted the major cell phone carriers to move their 4G systems from R&D to deployment. This presentation will give an overview of the two competitors for 4G. WiMAX (IEEE 802.16m) is one of the 4G systems. WiMAX is being deployed by Clearwire and Sprint. The other 4G system is Long Term Evolution (LTE) from the 3GPP consortium. LTE is being implemented by AT&T and Verizon with deployment scheduled to begin in 2011-2012. In addition to the physical layer itself, 4G systems radically change how the remainder of the network also functions. So this presentation will also give a brief overview of those aspects as well.

This talk will be at a rather high engineering level, and Mr. Ashe has as yet not included much on video applications. We plan to develop a future meeting program with him that will discuss 4G with a video and multimedia twist. This meeting does provide an opportunity for SMPTE and IEEE members to meet, network and socialize.

William Ashe received his BS in Physics from University of Michigan-Dearborn in 1991 and his MS from Texas A&M University - College Station in 1997. He developed optical, thermal, and RF testing methodologies for RF powered HID plasma lamps for rear projection monitors while at Compaq computers in Houston. Moving back home, he performed EMC testing at Chrysler, Eaton, and UL. He is now employed at Sirius XM Satellite Radio where he performs a wide array of RF testing on both automotive and consumer electronic products.

**No Managers' Dinner** this month.

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Non-members and guests welcome

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