IEEE 802 LAN/MAN Standards Committee Plenary Session
March 2011 Tutorials
Monday March 14, 2011

Tutorial #1

Date: Monday, March 14, 2011
Time: 6:00 – 7:30 pm
Location: TBA
Title: <u>What is Personal Space Communications (PSC)?</u>
Sponsored by: WG 802.15 Chair Robert Heile

Presenter(s) Name:	Affiliation:	Email Address:
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<u>Abstract:</u>

Personal Space Communications (PSC): A first step for a new communication paradigm.

In general, personal space is defined as a physical and virtual space which a person regards as psychologically the person's. In the case of PSC, the personal space is defined as a physical space where devices are controlled by or for the person. Personal Space Communication is connectivity between the individual and the devices and among devices associated with this individual in the personal space for exchange of information and management of the environment.

To connect diverse heterogeneous and ubiquitous personal devices with no technical commonalities for a personally tailored environment and entertainment management, it is beneficial to create a unified solution with one technology, rather than combining multiple technologies into a combo chip. There are standards that could serve parts of the needs of PSC, but no single communications standard supports combinations of all features uniquely optimized for this type of connectivity, namely: dynamic link rate scaling, peer-to-peer group communication, high precision ranging, QoS (reliability and latency), low power consumption, fast association and synchronization, security, and coverage extension.

This tutorial describes the application and more particularly the desired communications standard needed to support it.

Tutorial # 2

Date: Monday March 14, 2011

Time: 7:30 – 9:00 pm

Location: TBA

Title: TBA

Sponsored by: WG 802.11 Chair Bruce Kraemer

Presenter(s) Name:	Affiliation:	Email Address:
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Abstract:

The primary motivation for this tutorial is to Inform the industry on the contents and capabilities of the MESH amendment and the experiences gained in creating it. With 802.11s nearing completion, there are numerous requests for some form of tutorial material regarding what the amendment now contains. Additionally, other WGs may be starting up mesh activities, and they may benefit from our experience in exploring various mesh options.

Tutorial # 3

Date: Monday March 14, 2011

Time: 9:00-10:30 pm

Location: TBA

Title: IEEE 802.16 in IMT-Advanced

Sponsored by: WG 802.16 Chair Roger Marks

Presenter(s) Name:	Affiliation:	Email Address:
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Abstract:

In November 2006, a tutorial entitled "IEEE 802.16 and IMT-Advanced" introduced the IEEE 802 community to plans within the ITU to develop new mobile radio interface recommendations for international mobile telecommunications (IMT) under the moniker "IMT-Advanced." It also described plans for a new IEEE 802.16m project to develop a suitable proposal. Since that time, the IEEE 802.16m standard has been developed, and its new "WirelessMAN-Advanced" radio interface has been accepted as one of two to be included in IMT-Advanced. This tutorial reviews the activities to create IMT-Advanced and summarizes its current status. It also describes the key features of WirelessMAN-Advanced and the results of its intense evaluation.