



SCTE - The Society for Broadband Professionals -
has pleasure in announcing its

SPRING LECTURE MEETING

“SMOKE AND MIRRORS WITH GLASS!”

to be held on

WEDNESDAY 22 MARCH 2017

at

The Royal College of Surgeons of England (RCS)
Eleanor Davies-Colley Lecture Theatre (LT2)
35-43 Lincoln's Inn Fields
LONDON
WC2A 3PE

Registration at 9.30 am

"SMOKE AND MIRRORS WITH GLASS!"

9.30 am COFFEE AND REGISTRATION

10.00 am *President's Welcome and Society Update*

10.05 am *Chairman's Keynote Introduction and Overview*
Paul Smith FSCTE, Chairman, SCTE Lecture Committee

10.15 am *"Maintaining Control in an Unmanaged World"*

Dave Belt, Product Marketing Director

IRDETO

With the proliferation of OTT devices and services, traditional operators are increasingly being forced to run two distinct video delivery systems. A traditional plant-to-home system that has been their bread and butter now competes with an IP-based system which allows the customer to consume on any device anywhere.

Common trade knowledge says that the managed devices of the plant-to-home model are the only "secure" way to deliver content. Yet clearly we not only can, but are, delivering high-value content to unmanaged devices and with a superior user experience.

Dave Belt, former principal architect with Time Warner Cable and security architect at CableLabs, will provide an analysis of the security components inherent in both managed and unmanaged devices. Drawing on his experience in platform and device development, he will ultimately show that unmanaged does not equal uncontrolled.

11.00 am *"Super Agents and Autonomous Customers"*

Dr. Nicola Millard, Head of Customer Insight and Futures, Global Innovation Team

BT

As customers do more and more themselves, how do customer services organisations respond to the increasingly complex and emotive demands of customers who are disloyal, connected and social. Based on consumer and industry research around the world, this presentation will attempt to answer questions such as:

- *Will there be contact centres in the future?*
- *Do smartphones turn customers into monsters?*
- *Is loyalty dead?*
- *Do customers just want an easy life?*
- *How do customers use social media?*

11.45 am *"Everything You Need to Know about Raman Optical Amplification"*

Mike Harrop, Application Engineering & CTO Office

EXFO

With the rapidly increasing number of coherent network deployments, there is a vast roll-out of Raman amplifiers to enhance Optical Signal-to-Noise Ratio (OSNR) for the purpose of increasing transmission distance without opto-electronic regeneration, and preparing the network for future capacity upgrades using 8QAM and 16QAM.

Although it uses fibre that has already been installed, Raman deployment is not as simple as it may seem. Knowledge about the fibre infrastructure, fibre type and quality, and connector loss is required since fibre parameters can impact key system performance parameters such as signal gain, signal quality and DWDM system capacity and reach.

As part of the presentation, we will review:

- *What a Raman amplifier is and why the new hype around this technology.*
- *Factors optimising the gain: what they are and how to make the most of the fibre.*
- *Critical parameters to check and validate before deploying Raman amplification.*

12.30 pm Questions and Round Up

12.40 pm BREAK FOR LUNCH

2.00 pm

“OBI in RFoG Networks”

Michael McWilliams, Senior Product Manager

ARRIS

Optical Beat Interference is an optical phenomenon inherent to RFoG (RF over Glass) fibre-to-the-home access networks. When it occurs, the upstream optical transmission path performance is severely degraded. Understanding its underlying causes and effects is important to provide operators with options to minimise the impact upon future service and disruption to subscribers so that operators can maximise the potential of this advanced network.

During the presentation, ARRIS will address:

- *OBI and its cause;*
- *The impact upon services;*
- *How to recognise if OBI is an issue in an RFoG network;*
- *Options to eliminate it.*

2.45 pm

“Migration Towards D3.1 and Distributed Architectures: Lessons Learned from the Largest European DOCSIS 3.1 Network Upgrade”

Steven Soenens, Vice President, Product Marketing

SKYLINE COMMUNICATIONS

Cable networks are in the midst, or on the eve of, going through major transitions. New network technologies and architectures are being deployed to facilitate higher broadband speeds, reliable business services, converged broadband and video delivery over IP, OTT etc. Some cable operators take an evolutionary network upgrade approach into D3.1, while other operators are going through major forklift upgrades.

But with network transformation towards DOCSIS 3.1, also comes an operational transformation. There are various reasons. First, new architectures are complex to provision e.g. DOCSIS 3.1 has an awful lot of knobs to tune to make it run optimally on an existing or upgraded HFC plant. Second, migration into a distributed architecture changes many engineering, capacity management, field operations and customer service workflows. Third, DOCSIS 3.1 changes the way that services are delivered to the consumer (e.g. IPTV, OTT over broadband) and therefore also changes the way that service assurance systems need to work.

This session will include lessons learned from the largest D3.1 network upgrade in Europe: real use-cases and experiences of upgrading networks to DOCSIS 3.1 and distributed architectures, including pro-active network maintenance, operational framework integration and end-to-end service quality management.

3.30 pm

BREAK FOR TEA

3.50 pm

“Addressing the LTE-A/5G Challenges”

Luca Giacobino, Pre-Sales Engineer/Technical Sales

SIAE MICROELETTRONICA SPA

Luca Giacobino will outline a strategy for LTE-A and 5G showing, due to the continued rise in bandwidth requirements, the need for optical solutions nearer to the network edge and ultra-high capacity wireless links.

4.35 pm

“HFC Evolution to Distributed Access”

Juha Kangas, DAA Product Manager

TELESTE

HFC plants are moving towards Distributed CCAP Architectures, where the optical transmission will be implemented by using Ethernet technologies. The RF modulation and demodulation functionalities will be moved to the node location, thus enabling virtualisation of the CCAP core functions.

By preserving the DOCSIS OSS, Remote PHY will not radically change the existing operations, tools and systems. However, deploying Remote PHY does require some changes to the Telemetry and Legacy HFC Management implementations. In this presentation, the evolution to Remote PHY with specific consideration points will be explained.

5.20 pm

Questions

5.30 pm -

SCTE COCKTAIL PARTY

7.30 pm

The Royal College of Surgeons – The Surgeons Library

All attendees are very welcome to come along to the Cocktail Party in the original 19th Century RCS library which is steeped in history.

PROGRAMME CORRECT AT TIME OF GOING TO PRESS

BOOKING FORM

SCTE Members

As usual, there is no charge for Members to attend the Lecture Meeting - just turn up. There is, however, an optional luncheon (with wine) at the RCS at the heavily subsidised rate of £15.00 plus VAT per person (ie £18.00). If you wish to reserve your place for lunch, it is essential that this is booked beforehand and so please complete the form below and return it together with your cheque* made payable to the SCTE.

Alternatively, bookings can be made online via the SCTE website:-
http://www.thescte.eu/acatalog/lecture_meetings.html, by telephone to the SCTE office on +44 (0) 1923 815500 or by email to office@thescte.eu

If you wish to bring any non-Member guest(s), please see the non-Member charges below and return the form to the SCTE office together with a cheque* for the appropriate amount.

Non-SCTE Members

The charge for attendance at the day's Lecture Meeting is **£50.00 plus VAT (ie £60.00)**, plus an optional charge of **£15.00 plus VAT (ie £18.00)** for luncheon at the RCS. For those of you who may subsequently wish to join the Society, we are pleased to announce that £20.00 of this fee is redeemable against your first full year's membership subscription provided that you apply by the end of April 2017.

If you wish to reserve places for the Lecture Meeting and/or luncheon, then please complete the booking form below and return it together with your cheque* made payable to the SCTE. Payments can also be made online through the SCTE shop at http://www.thescte.eu/acatalog/lecture_meetings.html

*** Payments may also be made by credit card - please contact the SCTE office.**

Please complete and return to: SCTE
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Name
Address
.....
Daytime Tel No Mobile Tel No.....
Email Address.....

SCTE Member YES*/NO* If NO, please send membership details YES*/NO*
* Please delete as applicable

1 Please reserve place(s) at the Society's Spring Lecture Meeting on Wednesday 22 March 2017 in the names of the following person(s):

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Note: Non-Member charge for each attendee is **£50.00 plus VAT (ie £60.00)**.

2 Please reserve place(s) for the optional luncheon. Please note there is a charge of **£15.00 plus VAT (ie £18.00)** for each place booked.

I enclose a cheque for £ made payable to SCTE. All bookings will be confirmed.

Signed Date