



WEDNESDAY, October 1, 2008

Afternoon InfoMercial Sessions

(3 sessions will run simultaneously)

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| INFOMERCIALS | |
| 2:00 PM | |
| (45-minute sessions) | |
| Room 106 | Nortel "Nortel Ethernet Fiber Access FTTH WDM PON Solution" |
| Room 107 | Conklin-Intracom "IPTV – A New Generation of On Screen Services" |
| Room 109 | OFS "The 40-Year PON (Passive Optical Network)" |

2:00 PM Nortel Ethernet Fiber Access FTTH WDM PON Solution

Presenter: [Alysha Godin](#) Nortel

Fiber based access is becoming a hot topic in the industry in order to overcome the limitations of the copper network. This is true for the residential domain (where copper cannot deliver a HDTV based service, for example) and business services which require fiber access based on a packet paradigm for lower cost and better performance.

Other access technologies, such as GPON, attempt to provide a fiber solution but have clear intrinsic issues (scalability, shared uplink capacity, traffic asymmetry, need to link engineer etc...). WDM PON technology, now introduced by Nortel, totally changes the industry landscape and resolves all the above issues in order to provide a truly scalable, future proof infrastructure for residential, business and wireless backhaul services. Many industry analysts and carriers agree that the access network will evolve to a WDM PON technology because of its advantages.

This presentation will cover the basics of WDM PON technology as well as the Nortel products and network offer.

2:00 PM IPTV – A New Generation of On Screen Services

Presenter: [David Hunt](#) Conklin-Intracom

Examining the current state of available IPTV Technology and services as well as what's on the horizon.

2:00 PM

The 40-Year PON (Passive Optical Network)

Presenter: [Guy Swindell](#)..... OFS

It is a common and reasonable expectation that an outside plant infrastructure deployed today should remain viable for the next 30 to 40 years. In days gone by, longevity was achieved in the last-mile if the infrastructure remained mechanically sound enough to support POTS. In the world of IP, it is only achieved if the infrastructure remains both mechanically sound and capable of supporting an exponentially increasing demand for bandwidth.

Even the most conservative bandwidth projections indicate that today's G-PON and E-PON technologies will need to be replaced long before the outside plant has ended its lifecycle. This presentation looks at some of the potential next-generation PON technologies, and examines the impact of those technologies on the last-mile infrastructure. Specifications and design options will be proposed to help insure the maximum life-span for today's investment.

Target Audience: Outside plant designers with a basic understanding of fiber optics and PON.

Learning Objectives:

1. Understand the basic elements in a PON outside plant infrastructure.
2. Understand generally held assumptions about future bandwidth use, and the limitations of current generation PON electronics.
3. Understand the basic specifications in the outside plant elements that can impact upgrade potential.
4. Understand some of the economic trade-offs in outside plant design, and the relevance or irrelevance of those trade-offs relative to the upgrade potential of the outside plant.