

# THE LEADER IN OSP EDUCATION

"What lies behind us, and what lies before us, are tiny matters compared to what lies within us."

-Ralph Waldo Emerson

**T**here are times when you may look around and feel you have little control over your career path. On the flip side, you also have to be honest with yourself. When you take action to become absolutely the best in your particular areas of expertise, you WILL feel more empowered.

The OSP team is here to help you do just that. We've created over 25+ highly-niche seminars that you can attend for FREE at OSP EXPO 2010. Check out the topics that cover areas from FTTx to Wireless Backhaul. And after you soak up every last piece of knowledge you can, you will realize something. That which lies within you is pretty darned powerful.

Regular Seminars, presented on Wednesday, October 13 and Thursday, October 14, are FREE to anyone attending OSP EXPO.

**Register for your seminars of choice at [www.ospmag.com/expo](http://www.ospmag.com/expo).**

If you have already registered for OSP EXPO you can easily add the seminars of your choice by clicking on the attendee registration button at [www.ospmag.com/expo](http://www.ospmag.com/expo). Once at the registration site, choose the link that reads:

*Click here to access our Attendee Resource Center.*

*Check your registration status or edit your record online.*

# osp expo<sup>®</sup>

THE BROADBAND DEPLOYMENT MARKETPLACE™

**Y**ou deal with mixed network architectures in the network today: copper, fiber, mobile backhaul. That's why OSP EXPO offers high-quality, in-depth education on topics that are relevant to make the network work!

Seminars are approved to award Continuing Education Credits (CEC) from both BICSI and the Electronics Technicians Association Int'l (ETA-I); and COC points from the Board of Certified Safety Professionals (BCSP).

**For complete information about seminars and how to earn CEC points visit [www.ospmag.com/expo/seminars](http://www.ospmag.com/expo/seminars).**

**ALL-YOU-CAN-EAT ACCREDITATIONS**



## Seminar Tracks for OSP EXPO 2010

- TRACK 1.** Construction / Engineering and Design for the Future
- TRACK 2.** FTTx: Everything Fiber -- Greenfield and Brownfield Solutions
- TRACK 3.** Green Technologies / Power / Network Sustainability
- TRACK 4.** IPTV / VoD / Ethernet in The First Mile / In-Home Networking
- TRACK 5.** Troubleshooting / Testing / Network Management
- TRACK 6.** Wireless Backhaul / Fixed Mobile Convergence in the OSP

For the complete seminar schedule and details visit [www.ospmag.com/expo/seminars](http://www.ospmag.com/expo/seminars).

# REGULAR SEMINARS

Wednesday, October 13 | 7:30 a.m. – 8:45 a.m.



## AT&T's Patented DSL INT for IPTV Applications

Presented by: Russ Gundrum, AT&T

TRACK 1

Come learn what Russ couldn't share in his August 2007 full-day seminar at OSP Expo in San Jose, CA on "The Lost Art (and Science) of AC Interference Mitigation!" He talked about the subject of AC interference and ways to mitigate it, including the use of the Induction Neutralizing Transformer (INT). He will continue his discussion with the latest results that he has achieved during the year.



## Future Proofing Your FTTH Network

Presented by: Ben Humphrey, Finley Engineering

TRACK 1

This seminar provides valuable insight into the factors to consider when embarking on a FTTH design and build. Learn how to prepare your network for the next 20 years.



## Building "Ultra" OSP--Challenges and the Opportunities

Presented by: Kermit L. Ross, Millennium Marketing

TRACK 1

The seminar will examine the three key challenges: capacity, reliability, and security facing 21st Century OSP designers and the imperatives and opportunities of getting it right.



## Up and Over and Around the MDU: Fiber-Wired or Fiber-Ready?

Presented by: Michael Gronovius, Ericsson

TRACK 2

Come learn how property owners, service providers, and residents alike gain great efficiencies from transforming the MDU into an intelligent building.



## The Powerful Case for Ni-CD Batteries

Presented by: Antoine Brenier, Saft America

TRACK 3

This seminar presents a detailed evaluation of field data gathered by independent testing companies from Ni-Cd batteries operating for over 10 years in real-life installations across various geographic temperature zones, including applications where they have been subjected to worst-case operating conditions.



## GIS: It Delivers More Than You Think!

Presented by: Tommy Siniard, 3-GIS

TRACK 5

We will identify the business drivers for a telecom company to use an enterprise solution and discuss examples of how other companies have reaped benefits from extending their GIS technology across multiple departments.



## Service Creation of Heterogeneous Networks to Support 3G/4G

Presented by: John Eberhart, Accedian Networks

TRACK 6

We will discuss how ethernet service creation and the implications for supporting wireless networks and the speed in which to deploy as carriers attempt to provision in a rapidly changing environment.



## Trials, Tribulations, and Successes of Wireless Backhaul

Presented by: Dominic Imbrogno, Charles Industries

TRACK 6

Providing wireless backhaul in an efficient and cost-effective manner has proven to be difficult and not without challenges. Many carriers are discovering, however, the answers and strategies to delivering cost-effective backhaul.

Wednesday, October 13 | 11:00 a.m. – 12:15 p.m.



## Digging Into Micro Trenching for Future FTTx Networks

Presented by: Gary Stahlbrand, TeraSpan Networks

TRACK 1

Come join a discussion about micro trenching methods, equipment, and applications.



## Comparison of DSL (FTTN) and FTTP Technologies

Presented by: Ernie Gallo, Telcordia

TRACK 2

Attendees will have a better understanding of the operation and customer benefits of each technology. In comparing DSL vs. FTTP: the Choice Is Yours to select the technology you want to provide, but as important to what customers are willing to buy. We'll look at both technologies from a service provider and customer experience lens.



## A Roadmap for Tier 1 Telecom Carrier Fuel Cell Installation

Presented by: Joe Blanchard, ReliOn

TRACK 3

This presentation provides a roadmap for the fuel cell installation process, including discussions about site selection procedures, permitting hurdles, fueling solutions, and installation methodology.

Wednesday, October 13 | 1:00 p.m. – 2:15 p.m.



## TALK BACK With Don McCarty

Presented by: Don McCarty, McCarty Products

TRACK 4

Have your OSP questions answered by Don, and other solutions shared by seminar attendees, in an energetic, highly popular, and thought-provoking Q&A session.



## DSL/IPTV/FTTN Testing Takes Your Network to the Next Level

Presented by: Paul Siglinger, Greenlee/A Textron Company

TRACK 5

Discuss a step TDR, where it can be used, its application with finding DSL impairments, and a live demonstration of the application.



## Leveraging xDSL and GPON for LTE Backhaul, and Why LTE Will Not Obsolete xDSL and GPON

Presented by: Ed Harstead, Alcatel-Lucent

TRACK 6

This seminar will discuss how converged packet-based broadband access solutions are uniquely positioned for rapid and cost-effective relief of the last mile bottleneck in 3G/LTE mobile backhaul, and will be instrumental for fixed-mobile convergence.



## How Packet Optical Networks Plays as a Key Component for Fixed Mobile Convergence

Presented by: John Sauer, Tellabs

TRACK 6

This presentation discusses the benefits of a hybrid router and a packet optical solution. It explains how packet optical networks support Carrier Ethernet services affecting the OSP, including mobile backhaul.

Thursday, October 14 | 7:30 a.m. – 8:45 a.m.



### **Building the Case for Enhanced OSP Network Design and Operations**

Presented by: Scott Casey, GE Smallworld

**TRACK 1**

Learn how to use a proven and structured approach to ROI-centric business case development to deliver enhanced engineering, design, and operations capabilities to your company.



### **Access Network Design Changes Enable Additional Plug-n-Play Savings**

Presented by: David Braga, Tyco Electronics

**TRACK 1**

Attend this seminar to hear how minor design modifications of the FTTH access network architecture can reap additional financial benefits from plug-n-play terminal and drop product solutions.



### **ADC and Verizon Deliver Green Solutions and Savings to Customers**

Presented by: Bryan Kennedy, ADC

**TRACK 3**

Verizon Business recently partnered with ADC to deploy Optical LAN Solutions (OLS) for its customers, delivering fiber from the data center to the end-user's desktop, which provides full Gigabit Ethernet service while cutting costs and energy usage.



### **Reaching the Customer Prem: What You Need to Know**

Presented by: Wade Ziegeldorf, P.E., CHR Solutions Inc

**TRACK 4**

This presentation focuses on the deployment of FTTH/IP Video at the customer premises.



### **MDU Cost-Effective Solutions That Work!**

Presented by: John George, OFS

**TRACK 4**

This seminar will touch on various options for PON and point-to-point indoor fiber cabling systems in MDU buildings and garden style residential units. We will objectively analyze for material cost, installation cost, total installed cost, reliability, and application performance over the lifetime of the system. It will also include a tutorial on bend-insensitive fibers and their applications.



### **In-Home Service Management -- Solving the Key Customer Problem**

Presented by: Jean Schmitt, JDSU

**TRACK 4**

This seminar discusses a vendor-agnostic system based approach to ensuring the quality of experience for multi-play services at the same time as reducing field dispatch expenses.



### **The Advantages of Wireless Mesh Systems for OSP Environments**

Presented by: Bo Larson, Firetide

**TRACK 6**

This session will cover how the use of a wireless mesh networking system can be utilized by OSP organizations to effectively provide high bandwidth, high reliability and low latency wireless communications in harsh RF environments.



### **3G/4G Mobile Backhaul Upgrades for a Fraction of the Cost**

Presented by: Hossam Salib, Positron Access Solutions

**TRACK 6**

This seminar will talk about high bandwidth demands for mobility applications, economics related to the bandwidth delivery and additional revenue generated. We will also discuss MIMO on DMT technology -- wireless origins, how it works, and the benefits.

Thursday, October 14 | 11:00 a.m. – 12:15 p.m.



### **OpEx Savings With FTTH Rollout? It's in Your Future**

Presented by: Scott Combs, Mapcom Systems

**TRACK 2**

In this discussion, we review how telecommunications providers are using better information to make decisions on deploying fiber service from a centralized operations system.



### **The Terabit Future for Access Networks**

Presented by: Eric Presworsky, Zhone Technologies

**TRACK 2**

In this seminar, we will discuss how demand trends are accelerating the shift to a new technology generation in last-mile networks.



### **Greening the Power Behind Your Network -- Today**

Presented by: Larry Reeder, Telect Inc

**TRACK 3**

This presentation will cover technologies for enclosure-based outdoor power systems that significantly increase operating efficiencies, reduce power consumption and heat generation, and provide active, intelligent control of OSP sites.

Thursday, October 14 | 1:00 p.m. – 2:15 p.m.



### **Bringing DSL Services to Rural Communities**

Presented by: Stephen Cumming, Bell Aliant

**TRACK 4**

Stephen will share some interesting techniques and approaches for carriers to deliver DSL-based high-speed Internet services to rural areas.



### **Damage Investigation**

Presented by: Ron Peterson, GeoSpatial Corporation

**TRACK 5**

This seminar focuses on the required elements of a successful damage investigation.



### **Wireless LTE Deployment: How Its Changing Cell Site Energy and Infrastructure Design Are Moving Forward**

Presented by: Paul Misar, Emerson Network Power

**TRACK 6**

This seminar will examine the overall evolution of the wireless network to today's current standard for DC power, reserve power, and outside plant configuration with an analysis of the overall infrastructure and deployment costs.



### **Strategic Considerations in Building a Middle Mile Network**

Presented by: Duval Yeager, Redline Communications Inc

**TRACK 6**

This session will address the technology attributes required for successful middle mile solutions using sub-6 GHz and e-Band wireless solutions.