



**Track Sessions**  
**Monday, September 28, 2009**  
**1:15 pm to 2:00 pm**

**T-501-G – Advanced Network Design, Construction and Management**

**T-501-G – Accelerated System-Wide FTTH Buildout for a Rural Telecommunications Cooperative – George Wyatt**, Palmetto Engineering & Consulting, LLC  
**Level:** General Audience

This session will address the buildout of a system wide FTTH network for a rural telephone cooperative. The accelerated nature of the process to achieve a three-year implementation will be discussed. Elements of the project such as design, staking, bidding, and construction assistance will be discussed in detail.

*A Clemson graduate, George holds a BS in electrical engineering and an MBA. A licensed professional engineer in seven states, George is a Principal of Palmetto Engineering & Consulting. PEC practices in the industrial power and telecommunications arenas. George has been practicing engineering for 27 years; 16 in telecom.*

**T-502-B – Building FTTH Revenues**

**T-502-B – Building FTTH Revenues Via the Set-top Box – Philip Lonigro**, Amino Communications  
**Level:** General Audience

Traditionally one of the major investments a service operator will make - the set-top box. Yet so much more can be achieved with this equipment. Interactivity, targeted advertising, DLNA, PVR. See how all this can be used and exploit the mega bandwidths of FTTH.

*Director East Region Sales and National Accounts for Amino Communications, the world leading IPTV entertainment solutions provider, Philip graduated with a BS in Electrical Engineering from the University of Texas. He has worked in Electronics, Computer and Telecommunications for the past 28 years in Development Engineering, Business Development and Sales.*

**T-503 – Portuguese Language Track**

**T-503 – Supervisão de redes ópticas passivas (PON) - uma experiência brasileira– Paulo José Pereira Curado**, CPqD Brasil  
**Level:** General

Neste trabalho serão apresentados os desafios e dificuldades para monitoração, localização de falhas e degradação de desempenho em redes ópticas passivas e a tecnologia utilizada para o desenvolvimento de um sistema de monitoração e supervisão destas redes, assim como a experiência brasileira na implantação de um sistema em utilização real.

*Curado é formado em Engenharia na Unicamp em 1985, pós-graduado em Sistemas de Qualidade na Unicamp (1991) e MBA em gestão empresarial na FVG (2002). Trabalha no CPqD desde 1986, exercendo atividades de pesquisa e desenvolvimento de Planta Externa para redes ópticas de entroncamento e assinantes. Atualmente é Gerente da área de Tecnologia de Planta Óptica.*

**T-504-I – New Technology**

**T-504-I – Optimizing PONs for 10 Gigabits – and Beyond – John George**, OFS  
**Level:** Intermediate

The next jump in passive optical network (PON) speeds will be to 10 Gbps, which has driven creation new 10 Gbps PON standards and systems. An analysis of the supportable reach and split ratio of ODNs using various performance levels of optical fiber and components will provide guidance toward cost optimizing the ODN for current and 10 Gigabit PON applications. ODN guidelines will be provided

to help designers of new FTTH networks, and owners of existing PON installations understand how to configure a PON ODN ready for 10 Gigabits – and beyond.

*John George has served with AT&T, Lucent Technologies and OFS for 25 years and directs the OFS technical marketing, systems, and applications engineering group. John has published and presented over 30 papers on fiber optics and FTTH and serves on the FTTH Council's board of directors and planning committee.*

#### **T-505-G – Success Stories**

**T-505-G – Lessons Learned after Building and Operating Two Municipal FTTH Systems – Raymond Buzzard**, Tullahoma Utilities Board

**Level:** General Audience

The author will compare and contrast the lessons learned after completing two municipal FTTH builds in differing local communities. The unique approaches used; the successes and obstacles encountered; unique technology and financial considerations; and differing operational and manpower theories; will be compared and contrasted. The bottom line of this talk will show how even with differing approaches, Municipal Broadband is still the best option for local communities wishing to secure a spot in the global market place.

*Manager of the Fiber Optics Department at Tullahoma Utilities, Tennessee which starting offering Triple Play services to the local community on February 1st. He was the architect and driving force behind the FTTH development in Dalton, Georgia, serving as the Vice President of Communications and Information Technology for ten years.*