

.....**Day One (3. October 2012)** .....

**Opening Session**

**Session: *Fiber Optics in Mobile Network*, Chair: Faruk Selmanovic**

- 1.1. *A Block Diagonalization for MIMO Femtocell Networks*  
Md. Hashem Ali Khan (Chonbuk National University, Korea); Moon Ho Lee (Chonbuk National University, Korea)
- 1.2. *Interference Alignment and Cancellation Over the LTE-A Based on Coordinated Multi-Point System*  
Md. Abdul Latif Sarker (Chonbuk National University, Korea); Moon Ho Lee (Chonbuk National University, Korea)
- 1.3. *Clock Recovery Where GPON Used as a Mobile Back-haul*  
Edvin Skaljo (BH Telecom Sarajevo, Bosnia and Herzegovina); Boris Nemsic (Delat Group, UAE); Aljo Mujčić (University of Tuzla, Bosnia and Herzegovina); Slobodan Babic (Ecole Polytechnique de Montreal, Canada)

**Invited talk:**

- 1.1. "Matching the Gateway to FTTH requirements" Kees de Waard, Business Development Director, GENEXIS

**Session: *Home networks and device*, Chair: TBD**

- 2.1. *Simplified Fiber-Wireless Distribution of HD Video in Passive and Active W-band Close Proximity Terminals*  
Alexander Lebedev (TU Denmark, Denmark); Roberto Rodes (Technical University of Denmark, Denmark); Xianbin Yu (Technical University of Denmark, Denmark); Juan Jose Vegas Olmos (Technical University of Denmark, Denmark); Idelfonso Tafur Monroy (Technical University of Denmark, Denmark); Soren Forchhammer (Technical University of Denmark, Denmark)
- 2.2. *The Effect of ISP Traffic Shaping on User-Perceived Performances in Broadband Access Networks*  
Kyeong Soo (Joseph) Kim (Swansea University, United Kingdom)
- 2.3. *Applying Routing Policy Differentiation for Diverse QoS Degrees in Multi-domain Optical Networks*  
Wajdi Halabi (Vrije Universiteit Brussel, Belgium)
- 2.4. *Network Implementation Trade-Offs in Existing Homes*  
Gerd Keiser (PhotonicsComm Solutions, USA)

.....**Day Two (4. October 2012)** .....

**Session: *Passive Optical Network, Part 1*, Chair: Gerd Keiser, (PhotonicsComm Solutions, USA)**

**3.1. *Feasibility of Centralized PON Monitoring Using PON-tuned OTDR***

Guilherme Temporão (Pontifical Catholic University of Rio de Janeiro, Brazil);  
Giancarlo V. de Faria (Pontifical Catholic University of Rio de Janeiro, Brazil);  
Patrik Urban (Ericsson AB, Sweden); Jean Pierre von der Weid (Pontifical  
Catholic University of Rio de Janeiro, Brazil)

**3.2. *Multi-Channel Deficit Round-Robin Scheduling for Hybrid TDM/WDM Optical Networks***

Mithileysh Sathiyarayanan (Swansea University, United Kingdom); Kyeong  
Soo (Joseph) Kim (Swansea University, United Kingdom)

**3.3. *New Generation Energy Efficient WDM-PON System Using Spectrum Slicing Technology***

Sandis Spolitis (Riga Technical University, Latvia); Vjaceslavs Bobrovs (Riga  
Technical University, Latvia); Ģirts Ivanovs (Riga Technical University, Latvia)

**Invited Talks:**

**1.2. *"Impact Goals of Research and Development Technology on the Business Strategy of NTT's FTTH Deployment"*, Dr. Hideaki Kimura , NTT Access Network Service Systems Laboratories**

**1.3. *„GPON Interoperability and beyond: Broadband Forum activities in supporting the expansion of Fiber Access“*, Alessandro Capurso and Regis Coat, Broadband forum**

**Session: *Passive Optical Network, Part 2*, Chair: Gerd Keiser, (PhotonicsComm Solutions, USA)**

**3.4. *Proposed Model of Mixed-WDM Systems Resulting From Development Trends in Optical Transport and Access Networks***

Aleksejs Udalcovs (Riga Technical University, Latvia); Vjaceslavs Bobrovs (Riga  
Technical University, Latvia)

**3.5. *A Hardware-based Preemptive Dynamic Bandwidth Allocation Mechanism for Real-time Applications in EPONs***

Wen-Kang Jia (National Chiao Tung University, Taiwan); Yuan-Rung Yang (National  
Chiao Tung University, Taiwan); Yaw-Chung Chen (National Chiao Tung University,  
Taiwan)

**Session: *New optical amplifiers and fiber*, Chair: TBD**

**4.1. *Hybrid Optical Amplifiers for Flexible Development in Long Reach Optical Access System***

Vjaceslavs Bobrovs (Riga Technical University, Latvia); Sergejs Olonkins (Riga Technical University, Latvia); Oskars Ozolins (Riga Technical University, Latvia); Jurgis Porins (Riga Technical University & Faculty of Electronic and Telecommunications, Latvia); Gunārs Lauks (Riga Technical University, Latvia)

4.2. *Flat-Gain DFRA Design Considering Pump-to-Pump FWM*

Sebastian Lara (Universidad Técnica Federico Santa María, Chile); Ricardo Olivares (Universidad Tecnica Federico Santa Maria, Chile); Bárbara Dumas (Optics Department, École Nationale Supérieure des Télécommunications de Bretagne & Universidad Técnica Federico Santa María, France)

4.3. *Link Control Protection in Cascades of Optical Hybrid Amplifiers (EDFA + DFRA)*

Bárbara Dumas (Optics Department, École Nationale Supérieure des Télécommunications de Bretagne & Universidad Técnica Federico Santa María, France); Sebastian Lara (Universidad Técnica Federico Santa María, Chile); Ricardo Olivares (Universidad Tecnica Federico Santa Maria, Chile)

4.4. *Determination of Liquid Crystal Filled Photonic Crystal Fiber Parameters and Nonlinear Effects in Supercontinuum Generation*

Jincy Johny (Hindustan University, Chennai, India); Sreenshrn Shashidharan (Hindustan University, Chennai, India)

***Closing Session***

## Wednesday, October 3

13:30 -13:40	<a href="#">Opening Session - FOAN2012</a>
13:40 – 15:00	<a href="#">Fiber Optics in Mobile Network</a>
15:30 – 16:00	[Invited Talk]: <a href="#">"Matching the Gateway to FTTH requirements" Kees de Waard, Business Development Director, GENEXIS</a>
16:00 -	<a href="#">Home networks and devices</a>
19:00	<a href="#">Banquet</a>

## Thursday, October 3

09:30	<a href="#">Passive Optical Network</a>
10:30	
11:00	[Invited Talk: Dr. Hideaki Kimura]: <a href="#">"Impact Goals of Research and Development Technology on the Business Strategy of NTT's FTTH Deployment"</a>
11:30	[Invited Talk: Alessandro Capurso and Regis Coat]: <a href="#">GPON Interoperability and beyond: Broadband Forum activities in supporting the expansion of Fiber Access</a>
12:00	<a href="#">Passive Optical Network</a>
12:30	<a href="#">Lunch</a>
13:30	<a href="#">Passive Optical Network, New optical amplifiers and fiber</a>
15:00 – 15:30	<a href="#">Coffee Break</a>
15:30	<a href="#">New optical amplifiers and fiber</a>
17:45	<a href="#">Closing session FOAN2012</a>
19:00	<a href="#">Bus City Tour</a>