

# PROCEEDINGS OF SPIE

## ***Broadband Access Communication Technologies V***

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Raj Jain  
Katsutoshi Tsukamoto**  
*Editors*

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# Contents

- vii *Conference Committee*
- ix *Introduction*
- xi *Higher-order modulation formats for spectral-efficient high-speed metro systems (Plenary Paper) [7959-01]*  
*R. Freund, M. Nölle, M. Seimetz, J. Hilt, J. Fischer, R. Ludwig, C. Schubert, H.-G. Bach, K.-O. Velthaus, M. Schell, Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut (Germany)*
- xix *Advances in coherent detection algorithms (Plenary Paper) [7960-01]*  
*J. C. Rasmussen, T. Hoshida, T. Tanimura, H. Nakashima, S. Oda, Fujitsu Labs. Ltd. (Japan); Z. Tao, L. Li, Fujitsu R&D Ctr. (China)*

---

## OPTICAL COMMUNICATIONS PLENARY SESSION

---

- 7958 02 **Photonic devices for next-generation broadband fiber access networks (Plenary Paper) [7958-01]**  
L. G. Kazovsky, S.-H. Yen, S.-W. Wong, Stanford Univ. (United States)

---

## COMPONENT TECHNOLOGIES FOR ACCESS, METRO AND COHERENT COMMUNICATIONS: JOINT SESSION WITH CONFERENCES 7959 AND 7960

---

- 7958 03 **Micro-resonator devices and optical broadband access application (Invited Paper) [7958-02]**  
A. E. Willner, L. Zhang, J.-Y. Yang, The Univ. of Southern California (United States)
- 7958 04 **Inherent RF linearized bandwidth broadening capability of an ultra-linear optical modulator [7958-03]**  
B. B. Dingel, Nasfine Photonics Inc. (United States); A. Prescod, The City College of CUNY (United States) and Corning Inc. (United States); N. Madamopoulos, The City College of CUNY (United States)

---

## NEXT GENERATION TECHNOLOGIES

---

- 7958 05 **Recent progress in coherent optical communication technologies (Invited Paper) [7958-04]**  
A. Sano, NTT Corp. (Japan)
- 7958 06 **From Stokes measurements to PDF post-processing [7958-05]**  
J.-J. Max, Avensys Inc. (Canada); S. O'Reilly, ITF Labs. (Canada)

---

**ADVANCED PON FOR ACCESS AND METRO: JOINT SESSION WITH CONFERENCE 7959**

---

- 7958 08 **Advances in fiber access networks development: efficient resource allocation and cost effective protection (Invited Paper)** [7958-07]  
J. Chen, L. Wosinska, Royal Institute of Technology KTH (Sweden)
- 7958 09 **Crosstalk analysis of an extended reach hybrid tree-ring PON architecture** [7958-08]  
S. Peiris, N. Madamopoulos, The City College of CUNY (United States); D. Richards, N. Antoniadis, The College of Staten Island, CUNY (United States)
- 7958 0A **A novel hybrid three-band transport system based on a DFB LD with multi-wavelength output characteristic (Invited Paper)** [7958-09]  
H.-H. Lu, P.-C. Peng, H.-C. Peng, C.-Y. Li, H.-S. Su, National Taipei Univ. of Technology (Taiwan)
- 7958 0B **Unified cost effective next-generation passive optical network and IEEE 802.16m network architecture** [7958-10]  
S. Hussain, S. R. Zaidi, H. Erkan, The City College of CUNY (United States); A. Sana, Bronx Community College of CUNY (United States)

---

**CATV AND ROF**

---

- 7958 0C **Convergence of broadcasting and communications utilizing CATV network (Invited Paper)** [7958-11]  
K. Kumamoto, H. Hoshino, K. Yasukawa, Osaka Institute of Technology (Japan); T. Higashino, K. Tsukamoto, S. Komaki, Osaka Univ. (Japan); K. Inagaki, National Institute of Information and Communications Technology (Japan)
- 7958 0D **Performance analysis of IM/DD radio-on-fiber link for transmitting multicarrier RF signals** [7958-12]  
T. Higashino, S. Okumura, K. Tsukamoto, S. Komaki, Osaka Univ. (Japan); K. Kumamoto, K. Yasukawa, Osaka Institute of Technology (Japan); K. Inagaki, National Institute of Information and Communications Technology (Japan)
- 7958 0E **Modulation of relaxation oscillation frequency of a DFB laser by using direct detection** [7958-13]  
A. Baylón-Fuentes, P. Hernández-Nava, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); A. García-Juárez, Univ. de Sonora (Mexico); I. E. Zaldívar-Huerta, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); J. Rodríguez-Asomoza, Univ. de las Américas Puebla (Mexico); G. Aguayo-Rodríguez, Instituto Nacional de Astrofísica, Óptica y Electrónica (Mexico); R. Gómez-Colín, Univ. de Sonora (Mexico)
- 7958 0F **Development of broadband optical frequency resource over 8.4-THz in 1.0-um waveband for photonic transport systems** [7958-14]  
N. Yamamoto, National Institute of Information and Communications Technology (Japan); Y. Omigawa, Y. Kinoshita, Aoyama Gakuin Univ. (Japan); A. Kannno, K. Akahane, T. Kawanishi, National Institute of Information and Communications Technology (Japan); H. Sotobayashi, Aoyama Gakuin Univ. (Japan)

- 7958 0G **Computer modeling and design analysis of a bit rate discrimination circuit based dual-rate burst mode receiver** [7958-19]  
S. Kota, J. Patel, E. Ghillino, RSoft Design Group, Inc. (United States); D. Richards, The College of Staten Island, CUNY (United States)

---

**OPTICAL NETWORKS: JOINT SESSION WITH CONFERENCES 7959 AND 7960**

---

- 7958 0H **Ultra-wide tuning range of reconfigurable optical add-drop multiplexer using photorefractive polymer** [7958-15]  
Y. Wakayama, A. Okamoto, A. Tomita, Hokkaido Univ. (Japan); K. Sato, Hokkai-Gakuen Univ. (Japan)

---

**OPTICAL WIRELESS ACCESS**

---

- 7958 0I **Broadband ubiquitous femto-cell network with MIMO distributed antenna system over WDM-PON (Invited Paper)** [7958-16]  
K. Iwatsuki, T. Tashiro, K. Hara, T. Taniguchi, J. Kani, N. Yoshimoto, NTT Corp. (Japan); K. Miyamoto, T. Nishiumi, T. Higashino, K. Tsukamoto, S. Komaki, Osaka Univ. (Japan)
- 7958 0J **All-optical demultiplexer based on dynamic multiple holograms for optical MIMO processing and mode division multiplexing** [7958-17]  
T. Oda, A. Okamoto, D. Soma, A. Tomita, Y. Wakayama, Hokkaido Univ. (Japan)
- 7958 0K **Optical wireless networked-systems: applications to aircrafts (Invited Paper)** [7958-18]  
M. Kavehrad, J. Fadlullah, The Pennsylvania State Univ. (United States)

---

**POSTER SESSION**

---

- 7958 0L **Next generation wireless technology WiMAX and its integration with EPON** [7958-20]  
S. R. Zaidi, S. Hussain, H. Erkan, The City College of CUNY (United States); A. Sana, Bronx Community College of CUNY (United States); A. Carranza, New York City College of Technology of CUNY (United States)
- 7958 0M **Techno-economic feasibility studies for solar powered passive optical network** [7958-21]  
K. Ennsner, S. Mangeni, S. Taccheo, Swansea Univ. (United Kingdom); S. Aleksic, Vienna Univ. of Technology (Austria)

*Author Index*



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Component Technologies for Access, Metro and Coherent  
Communications: Joint Session with Conferences 7959 and 7960  
**Guifang Li**, CREOL, The College of Optics and Photonics, University of  
Central Florida (United States)  
**Werner Weiershausen**, Deutsche Telekom AG (Germany)

Next Generation Technologies  
**Katsutoshi Tsukamoto**, Osaka University (Japan)  
**Raj Jain**, Washington University in St. Louis (United States)

Advanced PON for Access and Metro: Joint Session with Conference  
7959  
**Raj Jain**, Washington University in St. Louis (United States)  
**Benjamin Dingel**, Nasfine Photonics, Inc. (United States)

CATV and RoF  
**Katsutoshi Tsukamoto**, Osaka University (Japan)  
**Benjamin Dingel**, Nasfine Photonics, Inc. (United States)

Optical Networks: Joint Session with Conferences 7959 and 7960  
**Werner Weiershausen**, Deutsche Telekom AG (Germany)

Optical Wireless Access  
**Katsutoshi Tsukamoto**, Osaka University (Japan)  
**Benjamin Dingel**, Nasfine Photonics, Inc. (United States)



## Introduction

It is our pleasure to welcome all of you in Photonics West 2011 conference on Broadband Access Communication Technologies V. The purpose of this conference is to promote discussions and disseminations of design, development, and performance of various types of broadband access communication technologies.

This year the three optical-communication related conferences, namely; (i) Broadband Access Communication Technologies V, (ii) Optical Metro Networks and Short-Haul Systems III, and (iii) Coherent Optical Communication: Components, Subsystems, and Systems, decided to have integrated programs with multiple joint sessions between them to assemble well-known invited speakers and solicit high quality technical papers coming from Asia, Europe, and North America. These excellent joint sessions are made possible through the cooperation and leadership of all conference chairs involved.

For one, the joint sessions between Broadband Access Communication Technologies V and Optical Metro Networks and Short-Haul Systems III offer comprehensive coverage of various technical aspects of broadband access from the last-mile to short-haul system to metro-wide networks. On the other hand, the joint sessions with Coherent Optical Communication: Components, Subsystems, and Systems introduce the latest developments and advance technologies in optical coherent communication as they slowly penetrate broadband access field. These efforts have resulted in a very strong technical program representing the state of the art in the field.

The Broadband Access Communication conference continues to provide discussions and disseminations for platform technologies such as optical fiber-based, radio-over-fiber-based, photonics-based, copper-based, satellite-based, mobile wireless-based and power-line communications. We have invited a number of well-known speakers to present the current and future trends of these broadband access technologies as well as the economics of pricing in access.

Finally, we acknowledge and appreciate the speakers and authors of all the contributed and invited papers, the technical program committee members, and SPIE staff for all their valuable efforts. The success of this conference is strongly due them.

**Benjamin Dingel**  
**Raj Jain**  
**Katsutoshi Tsukamoto**

