

OFC Postdeadline Paper Abstracts

Session Title	Location	Time
Th4A • Postdeadline Session I	6C	16:30 – 18:15
Th4B • Postdeadline Session II	6D	16:30 – 18:15
Th4C • Postdeadline Session III	6E	16:30 – 18:15

OFC Postdeadline Paper Abstracts

Room 6C

16:30 -- 18:30

Th4A • Postdeadline Paper Session I

Presider: Daniel Kuchta; IBM TJ Watson Research Center, USA

Th4A.1 • 16:30

Isolator-free > 67-GHz bandwidth DFB+R laser with suppressed chirp, Yasuhiro Matsui¹, Richard Schatz², Di Che³, Ferdous Khan¹, Martin Kwakernaak¹, Tsurugi Sudo¹; *1II-VI Incorporated, USA; 2Applied Physics, Photonics, KTH Royal Inst. of Technology, Sweden; 3Nokia Bell Labs, USA*. We realized > 67 GHz bandwidth, a reflection tolerance up to 12.5 %, and a chirp parameter of 0.6 for a DFB laser integrated with a passive waveguide with 3% reflection coating, called DFB+R laser.

Th4A.2 • 16:45

A 112 Gb/s all-silicon micro-ring photodetector for datacom applications, Meer Nazmus Sakib¹, Peicheng Liao¹, Ranjeet Kumar¹, Duanni Huang¹, Guan-lin Su¹, Chaoxuan Ma¹, Haisheng Rong¹; *1Intel Labs- Photonics Research, USA*. We demonstrate an all-silicon micro-ring resonant photodetector with a responsivity of 0.23 A/W and dark current <100nA capable of detecting 112 Gb/s PAM-4 signal with an eye closure penalty of <1.0 dB.

Th4A.3 • 17:00

Net 212.5 Gbit/s Transmission in O-band With a SiP MZM, One Driver and Linear Equalization, Maxime Jacques¹, Zhenping Xing¹, Alireza Samani¹, Xueyang Li¹, Eslam El-Fiky¹, Samiul Alam¹, Olivier Carpentier¹, Ping-Chiek Koh², David Plant¹; *1McGill Univ., Canada; 2Lumentum, USA*. We present an O-band SiP MZM design enabling net transmission of 212.5 (200) Gbit/s over 2 (10) km using PAM-8 modulation and 20% SD-FEC, and net 200 Gbit/s back-to-back using PAM-6 and 6.7% HD-FEC.

Th4A.4 • 17:15

Silicon Photonics Coherent Optical Subassembly with EO and OE Bandwidths of Over 50 GHz, Shogo Yamanaka¹, Yuichiro Ikuma¹, Toshihiro Itoh¹, Yuriko Kawamura¹, Kiyofumi Kikuchi¹, Yu Kurata¹, Makoto Jizodo¹, Teruo Jyo², Shunichi Soma¹, Masayuki Takahashi¹, Ken Tsuzuki¹, Munehiko Nagatani², Yusuke Nasu¹, Asuka Matsushita³, Takashi Yamada¹; *1NTT Device Innovation Center, Japan; 2NTT Device Technology Laboratories, Japan; 3NTT Network Innovation Laboratories, Japan*. We present a silicon photonics coherent optical subassembly, which has electro-optic/ optic-electro bandwidths of 54 GHz/52 GHz for a transmitter/receiver. We also demonstrate up to 96 Gbaud polarization multiplexed 16QAM signal generation and detection.

Th4A.5 • 17:30

SiPhotonics/GaAs 28-GHz Transceiver for mmWave-over-Fiber Laser-Less Active Antenna Units, Laurens Bogaert¹, Joris Van Kerrebrouck¹, Haolin Li¹, Igor Lima de Paula¹, Kasper Van Gasse¹, Sam Lemey¹, Hendrik Rogier¹, Piet Demeester¹, Gunther Roelkens¹, Johan Bauwelinck¹, Guy Torfs¹; *1Ghent Univ., Dep. INTEC, Belgium*. We demonstrate a 28 GHz radio-over-fiber system with laser-less, low-cost active antenna units using silicon photonics and a GaAs driver and LNA. 7-Gb/s downlink and uplink throughput was achieved over 2km SSMF and 5m wireless.

Th4A.6 • 17:45

An 8x8 silicon photonic switch module with nanosecond-scale reconfigurability, Nicolas Dupuis¹, Jonathan E. Proesel¹, Nicolas Boyer², Herschel Ainspan¹, Christian W. Baks¹, Fuad Doany¹, Elaine Cyr², Benjamin Lee¹; *1IBM TJ Watson Research Center, USA; 2IBM Canada, Canada*. We demonstrate a fully-packaged digitally programmable 8x8 strictly nonblocking electrooptic silicon photonics switch module. We measured fiber-to-fiber loss between 7.5 and 10.5 dB, crosstalk <-30 dB, and reconfiguration time <10 ns.

Th4A.7 • 18:00

Full-Speed Testing of Silicon Photonic Electro-Optic Modulators from Picowatt-level Scattered Light, Xiaoxi Wang¹, Boris A. Korzh², Matthew Shaw², Shayan Mookherjee¹; *1Univ. of California San Diego, USA; 2Jet Propulsion Laboratory, USA*. We demonstrate a technique for measuring the full-speed performance of integrated modulators from ultraweak surface-coupled and scattered light. This can enable rapid characterization of unpackaged, high-speed wafer-scale integrated photonics without test ports or special fabrication.

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Room 6D

16:30 -- 18:30

Th4B • Postdeadline Paper Session II

President: William Shieh; Univ. of Melbourne, Australia

Th4B.1 • 16:30

Broadband Bismuth-Doped Fiber Amplifier With a Record 115-nm Bandwidth in the O and E Bands, Yu Wang¹, Naresh Thipparapu¹, David Richardson¹, Jayanta Sahu¹; ¹*Optoelectronics Research Center, UK*. We report a bismuth-doped fiber amplifier providing >20dB gain from 1345nm-1460nm with 31dB maximum gain and 4.8dB NF at 1420nm for a -23dBm signal. The gain coefficient and temperature-dependent-gain coefficient are 0.042dB/mW and -0.015dB/oC, respectively.

Th4B.2 • 16:45

First Demonstration of Automated Updates of Disaggregate Blades in Multi-Domain/Layer Optical Path Network, Kiyo Ishii¹, Sugang Xu², Noboru Yoshikane³, Atsuko Takefusa⁴, Shigeyuki Yanagimachi⁵, Takeshi Hoshida⁶, Kohei Shiimoto⁷, Tomohiro Kudoh⁸, Takehiro Tsuritani³, Yoshinari Awaji², Shu Namiki¹; ¹*National Inst. of Advanced Industrial Science and Technology, Japan*; ²*National Inst. of Information and Communications Technology, Japan*; ³*KDDI Research, Japan*; ⁴*National Inst. of Informatics, Japan*; ⁵*NEC Corporation, Japan*; ⁶*Fujitsu Limited, Japan*; ⁷*Tokyo City Univ., Japan*; ⁸*The Univ. of Tokyo, Japan*. Updating an OpenROADM node and subsequent re-routing were automated using a mathematical component-based model, triggered by the addition of node components. This process required only five minutes on an orchestrated testbed using SINET5 and a field optical network.

Th4B.3 • 17:00

First Demonstration of Hollow-Core-Fiber Cable for Low Latency Data Transmission, Benyuan Zhu¹, Brian J. Mangan¹, Tristan Kremp¹, Gabe Puc¹, Vitaly Mikhailov¹, Kyle Dube², Yuriy Dulashko¹, Merari Cortes¹, Yue Liang³, Ken Marceau², B Violette², D Cartounis², Ralph Lago², Brian Savran², Daryl Inniss¹, David DiGiovanni¹; ¹*OFS Laboratories, USA*; ²*OFS Fitel LLC, USA*; ³*OFS Fitel LLC, USA*. We present the first field-deployable hollow-core-fiber (HCF) cable and successfully demonstrate an error-free transmission of direct-detection 10Gb/s DWDM signals over a 3.1km cascaded HCF cable link, enabling 31% latency reduction compared to solid-core-fiber cable.

Th4B.4 • 17:15

Hollow Core NANF with 0.28 dB/km Attenuation in the C and L Bands, Gregory T. Jasion¹, Thomas Bradley¹, Kerriane Harrington¹, Hesham Sakr¹, Yong Chen^{1,2}, Eric Numkam Fokoua¹, Ian Davidson¹, Austin Taranta¹, John Hayes¹, David Richardson¹, Francesco Poletti¹; ¹*Optoelectronics Research Centre, Univ. of Southampton, UK*; ²*Lumenity Ltd, UK*. We report

an effectively single-moded, 1.7km long hollow core Nested Antiresonant Nodeless Fiber (NANF) with record-low 0.28dB/km loss from 1510 to 1600nm, which further reduces the loss gap with standard all-glass single mode fibers.

Th4B.5 • 17:30

Transmission of 61 C-band Channels with L-band Interferers over Record 618km of Hollow-Core-Fiber, Antonino Nespola², Stefano Straullu², Thomas Bradley³, Kerriane Harrington³, Hesham Sakr³, Gregory T. Jasion³, Eric Numkam Fokoua³, Yongmin Jung³, Yong Chen³, John Hayes³, Fabrizio Forghieri⁴, David Richardson³, Francesco Poletti³, Gabriella Bosco¹, Pierluigi Poggiolini¹; ¹*Politecnico di Torino, Italy*; ²*Links Foundation, Italy*; ³*Optoelectronics Research Centre, Univ. of Southampton, UK*; ⁴*CISCO Photonics, Italy*. We recirculated 61 PM-QPSK C-band channels @32GBaud, with simultaneous L-band loading, through 7.72km of hollow-core NANF with <1dB/km loss. We reached 772km for the mid-channel, and 618km for all channels at average GMI 3.44 bits/symbol.

Th4B.6 • 17:45

Gain and Temporal Equalizer for Multi-Mode Systems, Mikael Mazur¹, Nicolas K. Fontaine¹, Yuanhang Zhang², Haoshuo Chen¹, Kwangwoong Kim¹, Riccardo Veronese³, Luca Palmieri³, Pierre Sillard⁴, Roland Ryf¹, David Neilson¹; ¹*Nokia Bell Labs, USA*; ²*CREOL, The Univ. of Central Florida, USA*; ³*Department of Information Engineering, Univ. of Padova, Italy*; ⁴*Prysmian Group, France*. We present a device enabling individual spectro-temporal control of 15 spatial modes. Realizing independent control over both polarizations on each mode, flexible attenuation and +/-20 ps of tunable delay over bandwidths exceeding 100 nm is enabled.

Th4B.7 • 18:00

Optical Broadcasting and Steering by Demultiplexing Incoherent Spatial Modes, Haoshuo Chen¹, Nicolas K. Fontaine¹, Yuanhang Zhang^{1,2}, Mikael Mazur¹, Juan Carlos Alvarado Zacarias^{1,2}, Roland Ryf¹, David Neilson¹, Guifang Li², Rodrigo Amezcua Correa², Joel Carpenter³; ¹*Nokia Bell Labs, USA*; ²*CREOL, Univ. of Central Florida, USA*; ³*The Univ. of Queensland, Australia*. We realize optical broadcasting and reconfigurable beam steering by demultiplexing incoherent spatial modes. We demonstrate point-to-multipoint optical wireless communications using multimode VCSEL and multi-plane light conversion.

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Room 6E

16:30 -- 18:30

Th4C • Postdeadline Paper Session III

Presider: Robert Doverspike; Network Evolution Strategies LLC, USA

Th4C.1 • 16:30

Net 321.24-Gb/s IMDD Transmission Based on a >100-GHz Bandwidth Directly-Modulated Laser, Nikolaos Panteleimon Diamantopoulos¹, Hiroshi Yamazaki^{1,2}, Suguru Yamaoka¹, Munehiko Nagatani^{1,2}, Hidetaka Nishi¹, Hiromasa Tanobe³, Ryo Nakao¹, Takuro Fujii¹, Koji Takeda¹, Takaaki Kakitsuka^{1,4}, Hitoshi Wakita¹, Minoru Ida¹, Hideyuki Nosaka^{1,2}, Fumio Koyama⁵, Yutaka Miyamoto², Shinji Matsuo¹; *1NTT Device Technology Labs, Japan; 2NTT Network Innovation Labs, Japan; 3NTT Device Innovation Center, Japan; 4Waseda Univ., Japan; 5Tokyo Inst. of Technology, Japan*. Record DML-based 325-Gb/s (BTB) and 321.24-Gb/s (2-km SSF) transmissions are demonstrated based on a >100-GHz bandwidth membrane DML-on-SiC, by utilizing a digitally-preprocessed analog multiplexer and adaptive entropy-loaded DMT modulation, surpassing our previous record by ~34%.

Th4C.2 • 16:45

1.52 Tb/s single carrier transmission supported by a 128 GSa/s SiGe DAC, Fred Buchali¹, Vahid Aref¹, Mathieu Chagnon¹, Karsten Schuh¹, Horst Hettrich², Anna Bielik², Lars Altenhain², Markus Guntermann², Rolf Schmid², Michael Moeller²; *1Nokia Bell Labs, Germany; 2Micram Microelectronics GmbH, Germany*. We report on a new 128 GSa/s SiGe digital to analog converter supporting data generation at 128 GBaud. We demonstrate successful transmission at 1.55 Tb/s net rate in back to back and 1.52 Tb/s after 80 km of SMF.

Th4C.3 • 17:00

Real-Time Demonstration of 600-Gb/s DP-64QAM Self-Homodyne Coherent Bi-Direction Transmission with Un-Cooled DFB Laser, Tao Gui¹, Xuefeng Wang², Ming Tang², Yi Yu¹, Yanzhao Lu¹, Liangchuan Li¹; *1Huawei Technologies, China; 2WNLO & School of Optical and Electronic Information, Huazhong Univ. of Science and Technology, China*. We report first successful real-time self-homodyne coherent bi-direction transmission demonstration with 600-Gb/s DP-64QAM under un-cooled ~7-MHz linewidth DFB laser. A novel coherent receiver is proposed to achieve automatic stabilization against polarization fluctuations of received LO.

Th4C.4 • 17:15

400Gb/s Real-time Transmission Supporting CPRI and eCPRI Traffic for Hybrid LTE-5G Networks, Son T. Le¹, Tomislav Drenski², Andrew Hills², Malcom King², Kwangwoong Kim¹, Yasuhiro Matsui³, Theodore Sizer¹; *1Nokia Bell Labs, USA; 2Socionext Europe GmbH, UK; 3Finisar, USA*. We present the first CMOS ASIC to support either 4x25Gb/s eCPRI or 4x24.33Gb/s CPRI-10 traffic per optical wavelength and demonstrate 200Gb/s and 400Gb/s

transmissions in O and C bands over 20km for hybrid LTE-5G fronthaul networks

Th4C.5 • 17:30

172 Tb/s C+L Band Transmission over 2040 km Strongly Coupled 3-Core Fiber, Georg Rademacher², Ruben S. Luis², Ben J. Puttnam², Roland Ryf¹, Sjoerd P. van der Heide^{2,3}, Tobias A. Eriksson², Nicolas K. Fontaine¹, Haoshuo Chen¹, Rene-Jean Essiambre¹, Yoshinari Awaji², Hideaki Furukawa², Naoya Wada²; ¹*Nokia Bell Labs, USA*; ²*National Inst. of Information and Communications Technology, Japan*; ³*Inst. for Photonic Integration, Eindhoven Univ. of Technology, Netherlands*. Coupled-core multi-core fiber transmission is demonstrated across 359 C- and L-band channels with low spatial-mode-dispersion. A net-data-rate of 172 Tb/s over 2040 km is achieved, doubling the record data-rate-distance-product for standard cladding diameter SDM fibers.

Th4C.6 • 17:45

Demonstration of photonic neural network for fiber nonlinearity compensation in long-haul transmission systems, Chaoran Huang¹, Shinsuke Fujisawa², Thomas Ferreira de Lima¹, Alexander Tait¹, Eric Blow¹, Yue Tian², Simon Bilodeau¹, Aashu Jha¹, Fatih Yaman¹, Hussam G. Batshon², Hsuan-tung Peng¹, Bhavin J. Shastri¹, Ting Wang¹, Paul Prucnal¹; ¹*Princeton Univ., USA*; ²*NEC Laboratories America Inc., USA*. We demonstrate the experimental implementation of photonic neural network for fiber nonlinearity compensation over a 10,080 km trans-pacific transmission link. Q-factor improvement of 0.51 dB is achieved with only 0.06 dB lower than numerical simulations.

Th4C.7 • 18:00

Wideband Inline-amplified WDM Transmission Using PPLN-based OPA with Over-10-THz Bandwidth, Takayuki Kobayashi¹, Shimpei Shimizu¹, Masanori Nakamura¹, Takeshi Umeki^{2,1}, Takushi Kazama², Ryoichi Kasahara², Fukutaro Hamaoka¹, Munehiko Nagatani^{2,1}, Hiroshi Yamazaki^{2,1}, Takayuki Mizuno¹, Hideyuki Nosaka^{2,1}, Yutaka Miyamoto¹; ¹*NTT Network Innovation Laboratories, Japan*; ²*NTT Device Technology Laboratories, Japan*. We demonstrate the first inline-amplified transmission with PPLN-based polarization-independent OPA offering 5.125-THz amplification bandwidth and ≥ 15 -dB gain using 800-Gb/s PDM PS-36QAM signals. Results indicate the OPA potentially extends the WDM

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