

Start: 7.15

1. Welcome/Introductions

2. Approval of the OFC 2017 minutes. The draft minutes are available online, please review before the meeting: <http://ontc.committees.comsoc.org/meetings/>

Minutes approved

3. Conference and Journal updates and reports

Conferences

- ICC 2017
 - ONS Chairs: Grzegorz Danilewicz, George Rouskas
 - Statistics:
100 submissions: 54 networks, 46 systems
39 accepted: 25 networks, 14 systems
 - Access Sys and Nets Chair: Steven Hranilovic
 - Green Comm. Sys & Nets Co-Chair: Cicek Cavdar

 - Best paper award
 - Zhe Chen, Harald Haas, “Physical Layer Security for Optical Attocell Networks”
 - Runner-up
 - Juzi Zhao, Anisha Joseph, Vinod Vokkarane, “Sequential and Parallel Scheduling of Dynamic Bandwidth-Intensive Scientific Workflows in Elastic Optical Networks”

- ONDM 2017
 - General Chair: Tibor Cinkler
 - TPC Chairs: Jacek Rak, Marco Ruffini, Hiroaki Harai
 - Program
 - 17/35 regular papers
 - 13 invited papers
 - Report: Numbers of submitted papers going down maybe due to discontinuity to European projects

- ONDM 2018: Dublin (Trinity College) (<https://ondm2018.scss.tcd.ie/>)
- Globecom 2017 (Singapore) ONS Chairs: Gangxiang (Steven) Shen (nominated by ONTC), Paolo Monti (nominated by TAOS)
- ICC 2018 (Kansas City) ONS Chairs: Nasir Ghani (ONTC), Tarek El-Bawab (TAOS)
- Globecom 2019 (Abu Dhabi) ONS Chairs: Zuqing Zhu (ONTC), Hakki Cankaya (TAOS)
- ICC 2019 (Shanghai) ONS Chairs: nominations submitted
- ICTON 2017, July 2-6, 2017, Girona, Spain
- OSA Advanced Photonics Congress, New Orleans, July 24-27, 2017
 - Photonic Networks and Devices
 - Photonics in Switching

- ICEVLC 2018 : 2nd International Conference and Exhibition on Visible Light Communications 2018 (<http://vlca.net/conference/icevlc2018/>), March 16, 2018, Yokohama, Japan
- WS-11: 7th IEEE GLOBECOM Workshop on Optical Wireless Communications (OWC'17) (<http://globecom2017.ieee-globecom.org/workshop/ws-11-7th-ieee-globecom-workshop-optical-wireless-communications-owc%E2%80%9917>)
 - Co-chairs: Jean Armstrong, Steve Hranilovic, Takaya Yamazato
- IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS 2017), 17-20 December 2017 – C. V. Raman College of Engineering, Bhubaneswar, Odisha, India (<http://ants2017.ieee-comsoc-ants.org/>)

Journals

- Elsevier Optical Switching and Networking (OSN) 2016 Fabio Neri Best Paper Award
 - A. Bononi, P. Serena, A. Morea, G. Picchi, “Regeneration Savings in Flexible Optical Networks with a New Load-Aware Reach Maximization.” Vol. 19, pp. 123-134
 - M. Imran, M. Collier, P. Landais, K. Katrinis, “Performance Evaluation of Hybrid Optical Switch Architecture for Data Center Networks.” Vol. 21, pp. 1-15
- OSN Special Issue
 - “Special Issue on Transport SDN at the Dawn of the 5G Era” (<https://www.journals.elsevier.com/optical-switching-and-networking/call-for-papers/special-issue-on-transport-sdn-at-the-dawn-of-the-5g-era>)
 - Guest Editors: Prof. Guido Maier (guido.maier@polimi.it); Politecnico di Milano, Milan, Italy, Prof. Martin Reisslein (reisslein@asu.edu), Arizona State University, Tempe, Arizona, USA
- New JOCN Editor in Chief: Prof. Jane Simmons,
 - For the remainder of 2017, co-EiC with Pat Iannone. Starting in January 2018, sole EiC for JOCN.
- New journal (reported by Nelson F.): IEEE Communications Letters spin-off (Networks Letters) (it will be finalized in 2018, maybe)

4. Presentation by Prof. Nicola Sambo

Title: The ORCHESTRA project and related impacts

Abstract: An overview of the EU H2020 ORCHESTRA project is provided highlighting optimization and OAM procedures. Data, control, and management planes are presented, as well as project impacts on the market.

Call for nominations for ONTC secretary

ONTC Awards

ONS Chairs for future GC/ICC Conference

Distinguished Lecturers: deadline Sep. 30, 2017

IEEE Fellows: ONTC endorsement (deadline March 1)

Vincent C.: no optics person in the committee -> no optics fellow -> vice chair (non voting member) in the fellow committee -> hopefully some two additional voting members in the committee

5. Discussion on emerging technologies and research directions

- Current topic list
 - SDN and NFV
 - Spatial Division Multiplexing
 - Optical Network Architectures for
 - Backhaul
 - Fog Computing and Networking
 - Data Centers
 - Machine Learning/ Analytics for Optical Networks
 - Security in Optical Domain/Quantum Cryptography
 - Optics in 5G
 - Space Optics
 - Beam Forming
 - Transport and Optical Technologies for MIMO
 - Technoeconomics (e.g., Small Cell Placement)
 - Open Standards
 - Routing & Switching Hardware
 - Coherent Transmission

Vincent C.: NSF decided to develop funding for optical wireless communications: July 13-14, 2017. In National academy of Science white paper "National Protection in space and defence" -> Optical communications in space and defense -> unclassified report available

6. Other business

- Call for nominations for ONTC secretary (to be elected @ Globecom 2017, Dec- 4-8, Singapore)
- ONTC Awards
- ONS Chairs for future GC/ICC Conference
- Distinguished Lecturers: deadline Sep. 30, 2017
- IEEE Fellows: ONTC endorsement (deadline March 1)
 - Vincent C.: issue of not having an optics member in the committee

Nelson F.: In Brasil Brazilian Society of Photonics and Optics (maybe it will be sister society of IEEE)

Vincent C.: record profit at OFC 1.1 Million USD (15000 people at OFC 2017)

End: 8.20

Attendance list

| ICC 2017, Paris, France | | | |
|--------------------------------|------------------|--------------------------------------|----------------------------------------------|
| ONTC Attendance List | | | |
| First Name | Last Name | Email | Affiliation |
| George | Rouskas | rouskas@ncsu.edu | North Carolina State University |
| Luca | Valcarenghi | l.valcarenghi@sssup.it | Scuola Superiore Sant'Anna, Pisa |
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| Ahmed | Kamal | kamal@iastate.edu | Iowa State University |
| Jaafar | Elmirghani | J.m.h.elmirghani@leeds.ac.uk | University of Leeds |
| Naoaki | Yamanaka | Yamanaka@ics.keio.ac.jp | Keio univ, Japan |
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| Koji | Kamakura | Kama@cs.it-chiba.ac.jp | Chiba Institute of Technology, Japan |
| Takaya | Yamazato | Yamazato@nagoya-u.jp | Nagoya University |
| Nicola | Sambo | N.sambo@sssup.it | Scuola Superiore Sant'Anna |
| Vinod | Vokkarane | Vinod_Vokkarane@uml.edu | University of Massachusetts Lowell |
| Suresh | Subramaniam | Suresh@gwu.edu | George Washington University |
| Guoliang | Xue | Xue@asu.edu | Arizona State University |
| Vincent | Chan | Chan@mit.edu | MIT |
| Pascal | Lorenz | Lorenz@ieee.org | University of Haute Alsace |
| Nirwan | Ansari | nirwan.ansari@njit.edu | New Jersey Institute of Technology |

| | | | |
|----------|---------------|-----------------------------------|-------------------------------------------------|
| Maite | Brandt-Pearce | Mb-p@virginia.edu | University of Virginia |
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| Massimo | Tornatore | Massimo.tornatore@polimi.it | Politecnico di Milano |
| Wojciech | Kabacinski | Wojciech.Kabacinski@put.poznan.pl | Poznan University of Technology, Poland |
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| Federico | Tonini | F.tonini@unibo.it | University of Bologna, Italy |
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| Tarek | El-Bawab | Telbawab@ieee.org | Jackson State University |
| Nelson | Fonseca | Nfonseca@ic.unicamp.br | State University of Campinas |
| Evrin | Gule | Egule1@gsu.edu | Georgia State University |