

## **Visit Report: IEEE Photonic Society DL program 2017-18**

Dr. Ghanshyam Singh, IEEE PS DL awardee for term 2017-18, a Senior Member of IEEE and Associate Professor from Department of Electronics and Communication Engineering) from Malaviya National Institute of Technology Jaipur (India) visited 07 IEEE PS Chapters from Poland, Italy, Australia and Malaysia till December 2017. During these visits, Dr. Singh delivered DL talks on Photonic Integrated Devices and Systems: Technology for next Generation Telecom Networks and attended other technical and informal sessions as well. Dr. Singh lecture was based on recent research trends in the field of Photonics Integrated Devices and Systems. The talk began with the evolution of photonic technologies over the years and about the research that is being carried out in the direction of achieving goals of Integrated Photonics.

Apart from recent trends in these areas, the topics that Dr. Singh covered were design and fabrication issues with all optical devices such as switches, couplers, splitters, etc. and their possible solutions. The reason behind discussing these numbers of topics were to encourage young students to work in one of these most sought after research areas and to motivate them to contribute for the progress of integrated photonics. At the end of the presentation, He welcomed queries from the attendees. After the presentation, Dr. Singh and faculty members of above mentioned IEEE PS Chapters went into an informal discussion about the possibilities of collaborative research between Indian and associated Universities with the visited IEEE PS Chapters. The outline of the discussion covered Joint research projects and exchange of students between the universities and research groups.

Details of the chapters visited by December 2017.

**(During October 22 – October 27, 2017).**

### **1. PS Poland Chapter**

Contact Person (Main host):

Jaroslav Turkiewicz, Chapter Chair since 2017,  
Warsaw University of Technology, Warsaw, Poland  
E-mail: jturkiew@tele.pw.edu.pl

### **2. PS Poland Chapter**

Contact Person (Main host):

Dominik Dorosz  
Associate Professor, AGH-University of Science and Technology, Krakow  
E-mail: dominik.dorosz@gmail.com

### **3. Italian Chapter of PhoS**

Contact Person (Main host):

Prof. Antonio d'Alessandro  
Vice-President, Italian Chapter of PhoS  
Department of Information Engineering, Electronics and Telecommunications Sapienza University of Rome Via Eudossiana, 18-00184 Roma Tel. +3906 44585459, Mob. +39320 4357201  
E-mail: antonio.dalessandro@uniroma1.it  
antonio.dalessandro@diet.uniroma1.it

(During December 11 – December 21, 2017).

**4. IEEE Joint Chapter of ESP, Perth (Australia)**

(ESP: Electron Devices Society, Solid State Circuit Society, Photonic Society)

**Contact Person (Main host):**

Prof Adam Osseiran, Chairperson of the ESP

School of Engineering - Edith Cowan University - 270 Joondalup Drive - Joondalup - WA 6027 - Australia

Tel: +61 8 6304 5752 | Mobile: +61 422 667 624 | Email: a.osseiran@ecu.edu.au

**5. ACT Section of the joint Photonics and EDS Chapter, Canberra(Australia)**

**Contact Person (Main host):**

Fouad Karouta, ACT Section Vice Chair and Chair of the joint Photonics and EDS Chapter

Research School of Physics and Engineering, L. Huxley Building (#56), Mills Road, Room 4.02

Australian National University, ACT 0200, Canberra, Australia

Email: fouad.karouta@anu.edu.au

**6. IEEE PS Chapter Malaysia**

**Contact Person (Main host):**

Dr. Syamsuri Yaakob, Chair of IEEE PS Chapter, Malaysia

Associate Professor, Dept. of Computer and Communication Systems Engineering, Faculty of Engineering,

Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, T: 03-8946 4474, F: 03-8656 7127

Email: syamsuri@upm.edu.my

**7. IEEE PS Chapter Malaysia**

**Contact Person (Main host):**

Dr. Jalil Bin Ali, Professor & Senior Member IEEE

Laser Center, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia

Email: jalilali@utm.my





Picture (01): With host, Jarosław Turkiewicz, Chapter Chair since 2017, Warsaw University of Technology, Warsaw, Poland



Picture (02): With host Prof. Dominik Dorosz and IEEE student members from AGH-University of Science and Technology, Krakow.



Picture (02): With host Prof. Antonio d'Alessandro, Vice-President, Italian Chapter of PhoS and student members from Italian Chapter of PhoS and Sapienza University of Rome



Picture (03): With host, Prof Adam Osseiran, Chairperson of the ESP, Perth from School of Engineering, Edith Cowan University, Joondalup (WA), Australia



Picture (04): IEEE PS Distinguished Lecture for members of IEEE Joint Chapter of ESP, Perth and students from University of Western Australia, Perth, Australia



Picture (05): With host, Fouad Karouta, ACT Section Vice Chair and Chair of the joint Photonics and EDS Chapter Canberra, Australia



Picture (06): IEEE PS Distinguished Lecture for members of ACT Section of the joint Photonics and EDS Chapter, Canberra and students from Australian National University Canberra, Australia



Picture (07): With host, Dr. Syamsuri Yaakob, Chair of IEEE PS Chapter, Malaysia



Picture (08): IEEE PS Distinguished Lecture for members of IEEE PS Chapter of Malaysia, and students from UNITEN Kaula Lumpur, Malaysia



Picture (09): IEEE PS Distinguished Lecture @ University of Technology Malaysia, Johar Bahru Campus, Malaysia



Picture (10): With host Dr. Jalil Bin Ali, Professor & Senior Member IEEE, members of IEEE PS Chapter of Malaysia, and students from Laser Center, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia

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## IEEE PS DL Details

### Dr. Ghanshyam Singh

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**A short professional bio:** Dr. Ghanshyam Singh received B. Tech. degree in Electronics and Communication Engineering from NIT Silchar (then REC Silchar), M. Tech. and PhD degrees in Electronics and Communication Engineering from Malaviya National Institute of Technology (MNIT) Jaipur. In early 1999, he joined the academic staff of MNIT Jaipur, where he is an Associate Professor with the Department of EC Engineering. He had worked as visiting research scholar/visiting professor in the area of Photonic Switching and Networks for various periods at the Department of Physics, Herriot Watt University, Edinburgh, UK (March 2009), the Institute of Photonics, University of Eastern Finland, Joensuu, Finland (January – June 2010) under the CIMO Fellowship (Govt. of Finland) and Department of EEE, Keio University, Hiyoshi Campus, Yokohama, Japan (October 2013). Dr. Singh has extensive teaching, research and sponsored R&D experience (for various funding agencies from India and abroad) on many aspects of Optical Communication and Photonics Engineering and has published/reported over 100 research papers/review articles in peer reviewed International journals/conferences. He had delivered expert talks on related research topics during various events held in India and abroad (including the Germany, Finland, Japan, Ukraine, Belarus and China). Dr. Singh is a senior member of OSA, IEEE and Fellow of DSA and IETE. He is also a life member of other professional societies including the SPIE, ISTE, IE (India), etc. Presently, Dr. Singh is engaged with joint research projects with partner researchers from Keio University (Japan), University of Vienna (Austria), Lviv National Polytechnique University, Lviv (Ukraine) and Cairo University (Egypt). His current research interest includes Micro and Nano-structured photonic devices, all optical circuits and networks and non-linear characteristics of photonic crystal fibers.