

Visit Report: IEEE Photonic Society 'DL' program May – June 2018

This summer (May 11 – June 22, 2018), Prof. Ghanshyam Singh, 'Distinguished Lecturer' awardee from IEEE Photonics Society for term 2017-18, a Senior Member of IEEE and Professor of Department of Electronics and Communication Engineering from Malaviya National Institute of Technology Jaipur (India) visited 12 Universities located in Italy, France, Spain, Portugal and USA. 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. Dr. Singh lectures were based on latest trends in the field of Integrated Photonics. 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 Integrated Photonics and relevant thrust areas.

Apart from recent trends in these areas, the topics that Dr. Singh covered were mainly related to the fabrication and performance issues of integrated optical devices based on Silicon and III-IV group composite semiconductor platforms. He also explained working principles for many optical devices e.g. switches, couplers, splitters, etc. and techniques to analyze their performance parameters. Principle motive of direct interactions with PhD scholars and students from visited Universities/IEEE chapters was to encourage them to work in one of these most sought after research areas so as to contribute for betterment of integrated photonics. At the end of the presentations, He welcomed queries from the attendees. Dr. Singh and faculty members of various IEEE PS Chapters also went into an informal discussion about the possibilities of collaborative research between Indian research labs and associated Universities. Opportunities for joint research projects and exchange of students between the universities and research groups were also explored.

List of the IEEE PS chapters/Universities visited during May – June 2018

S. No.	Date of 'DL'	IEEE Chapter/University Name
01	May 14, 2018	INO-CNR, Dipartimento di Fisica University of Pisa , Largo Pontecorvo 3 56127 Pisa, ITALY
02	May 15, 2018	IEEE Student Chapter, Politecnico di Torino , Corso Duca degli Abruzzi, 24, 10129 Torino, ITALY
03	May 16, 2018	IEEE Student Chapter & NECST Lab, Politecnico di Milano , Italy,
04	May 16, 2018	Integrated Photonics Lab Dept. of Electrical, Computer, and Biomedical Engineering, Università di Pavia , Via Ferrata, 5 A, I-27100 Pavia ITALY
05	May 18, 2018	IEEE French Chapter Photonic Society TELECOM ParisTech , Ecole Nationale Supérieure des Télécommunications, 46, rue Barrault 75634 Paris CEDEX 13, FRANCE
06	May 21, 2018	Dept. of Electronics Technology University Carlos III of Madrid , Escuela Politécnica Superior, Avd. de la Universidad, 30. 28911 Leganés (Madrid) SPAIN
07	May 22, 2018	IEEE ISCTE-IUL Student Branch, Instituto Universitário de Lisboa , Av. das Forças Armadas, 1649-026 Lisboa, PORTUGAL

- 08 May 24, 2018 IEEE Long island Chapter
Dept. of Electrical and Computer Engineering Technology,
Farmingdale State College – SUNY,
2350 Broadhollow Road, Farmingdale, NY 11735, USA
- 09 May 25, 2018 Linearizer Technology, Inc.
IEEE Chapter, TCNJ, New Jersey, USA
- 10 May 29, 2018 IEEE Photonics Society UCF, CREOL,
The College of Optics & Photonics
University of Central Florida,
4304 Scorpis St., Orlando FL 32816-2700, USA
- 11 May 31, 2018 IEEE Joint Chapter
The Institute of Optical Science,
Arizona State University, Phoenix, USA
- 12 June 08, 2018 IEEE Photonics Society at UCSB
University of California, Santa Barbara, California, USA

IEEE PS DL Details

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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 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 OSI 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.

Photo Gallery:



With members from University of Pisa, ITALY



With members from University of Torino, Turin (ITALY)



With members from University of Milano, Milan (ITALY)



With members from University Carlos III of Madrid, (SPAIN)



With members from University of Pavia, ITALY



With members from TELECOM ParisTech, Paris (FRANCE)



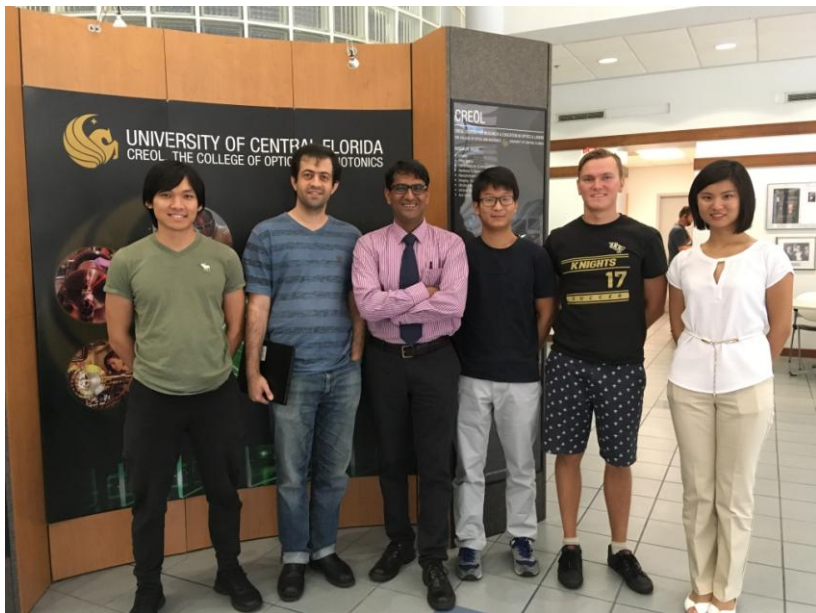
With members from Instituto Universitário de Lisboa (PORTUGAL)



With members from Farmingdale State College, Suny, New York (USA)



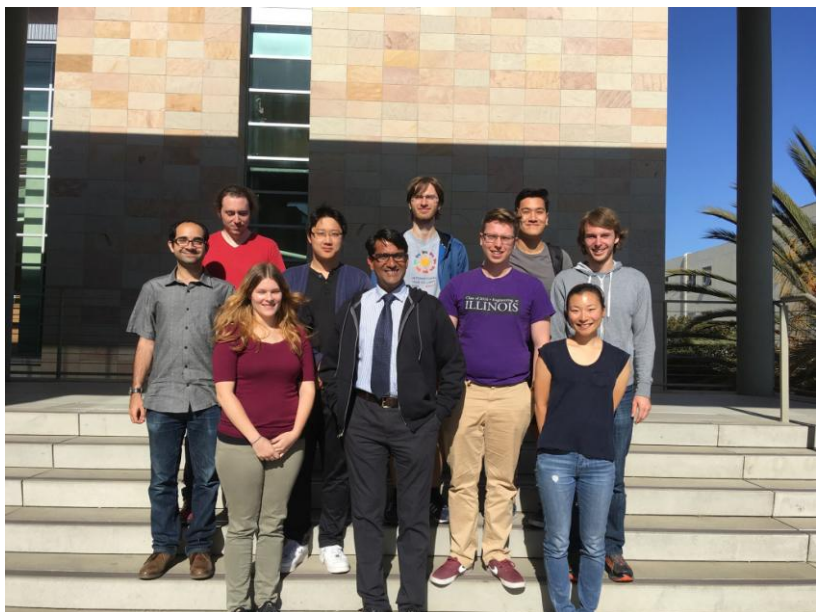
With members from Linearizer Tech. Inc. and IEEE TCNJ, New Jersey (USA)



With members from University of Central Florida, Florida (USA)



With members from Arizona State University, Phoenix (USA)



With members from University of California, Santa Barbara (USA)