Government of India
Ministry of Communications
Department of Telecommunications
Telecommunication Engineering Centre (TEC)

भारत दूरसंचार
INDIA TELECOM

Overview

Webinar on

"Advancements in Optical Fibre Technologies"

Date :12th December 2025 (Friday)

Time: 11:00 AM to 01:00 PM

Joining link:
https://cdotmeet.cdot.in/vmeet/rooms/fme-seo-zda-ote/join

About the webinar

The webinar aims to cover developments in the field of "Hollow Core Fibres" and "Multi-Core Fibres"

Webinar Schedule

Time	Session/Talk Title	Speaker
11:00 – 11:15 AM	Welcome & Setting of Contexts	Shri Vinod Kumar, DDG (Tx), TEC
	Inaugural Address	Shri Shubhendu Tiwari, Advisor (Technology) DoT
Technical Session		
11:15 – 12:00 PM	Hollow Core Optical Fibre Technology: Current Status and Future Perspectives + Q&A session	Shri Deepak Jain, Associate Professor, Optics and Photonics Centre, IIT Delhi
12:00 – 12:45 PM	Development, Application and Standardization progress of Space Division Multiplexing/ Multicore Fibres + Q&A session	Shri Sudipta Bhaumik, Head - Applications and Standards Engineering, Optical Networking Business, Sterlite Technologies Ltd. (STL)
Conclusion		
12:45 – 01:00 PM	Closing Remarks with vote of Thanks	Shri Vijay Dixit, Director (Tx), TEC

Speakers

Shri Deepak Jain is an Associate Professor at the Optics & Photonics Center, Indian Institute of Technology Delhi. Previously, he served as a faculty member in the Electrical Engineering Department at IIT Bombay. Earlier, he was a University Research Fellow at the University of Sydney and a Hans Christian Ørsted–Marie Curie Fellow at the Technical University of Denmark. He earned his Ph.D. from the Optoelectronics Research Centre, University of Southampton, UK.

His research focuses on optical fibers and semiconductor-based devices for AI, data centers, and high-performance computing. He founded Deeplase Technologies, a Delhi-based photonics company. He served as an Optica Ambassador (2020) and is a Senior Member of Optica and IEEE.

Shri Sudipta Bhaumik is designated as Head of Applications and Standards Engineering of Optical Networking Business at STL. He has been in the telecommunication field for over 27 years and engaged in research into quality, reliability, and application issues of optical fibre and cable. He is one of the architects of quality, process, and application engineering of STLs state-of-the-art optical fibre and cable manufacturing plants. He worked in various areas in optical fibre and cable manufacturing like Quality Assurance/Control, Reliability Engineering, Process Engineering, Management Systems, Business Development, pre-sales, Applications & Standards Engineering. He is an active expert member in telecom standard development organizations and is in various leadership positions of ITU-T and IEC. He serves as Vice Chair of ITU-T SG15 and WP2/15, one of the Liaison Rapporteurs/ officers of ITU-T SG15 and IEC TC86, and editor/ project leader of 9 international standards. He was conferred with the prestigious IEC 1906 award in 2022 from IEC TC 86. He is one of the Guinness World Record holders to achieve the most viewers of a telecommunication lesson live stream on a bespoke platform.

He has published over 40 technical papers and several patents. A frequent author of technical papers, he twice won the Urbain J.H. Malo Award for most meritorious research paper in Wire Association International (WAI) convention in Atlanta, USA. Sudipta holds a M.Tech degree in ceramic engineering from Indian Institute of Technology, Banaras Hindu University.