

**Workshop on Space Division Multiplexing and Distributed Fiber Optic Sensing**  
**Workshop Venue:** ESB-244, Seminar Hall, First floor, Electrical Science Block  
(ESB), IIT Madras

Session Overview		
Time slots	Talk/Event	Speaker
<b>Day 1 (28/01/2026)</b>		
8:30-9:20 AM	Registration	
<b>Session 1</b>		
9:20-9:30 AM	Welcome and Introduction	Prof. Deepa Venkitesh, IIT Madras
9:30-10:30 AM	Space Division Multiplexing (SDM) and Multicore Fiber (MCF) Technologies: Evolution, Standardization, and High-Performance Transmission	Mr. Sudipta Bhaumik, Sterlite Technology Limited
10:30-11:00 AM	Tea Break	
<b>Session 2</b>		
11:00-12:00 PM	All-Fiber Devices for FMF Technology and FSO-FC Converged Communication Systems	Prof. Nitin Bhatia, IIT Jodhpur
12:00-1:00 PM	SDM in AOC Testbed	Prof. Deepa Venkitesh, IIT Madras
01:00-2:30 PM	Lunch Break	
<b>Session 3</b>		
2:30-3:00 PM	Passive Components for Optical Networks	Mr. Manjunath Harsha, SFO
3:00-3:30 PM	Scaling MCF Technology for Real-world networks	Mr. Sobhan Babu Chundurur, IIT Madras
3:30 - 4:00 PM	Tea Break	
<b>Session 4</b>		
4:00-5:00 PM	Flash Presentation - PITCH	<b>P01-P12</b>
5:00 PM onwards	Lab Visit	AOC Testbed/Folium Sensing Lab

<b>Day 2 (29/01/2026)</b>		
<b>Session 1</b>		
9:00-10:00 AM	Distributed Optical Sensing of Strain and Temperature for Smart City Applications	Prof. Stephan Pachnicke, University of Kiel, Germany
10:00-10:30 AM	Tea Break	
<b>Session 2</b>		
10:30-11:15 AM	Just a Phase: Why $\phi$ -OTDR is the Future of Critical Infrastructure Sensing	Sai Patri, ADTRAN Germany
11:15-12:00 PM	Sensing the World Around Us with Nerves of Glass - Fundamentals and Opportunities for Distributed Fiber Sensors	Prof. Balaji Srinivasan, IIT Madras
12:00-12:45 PM	Distributed Fiber Optic Sensing: An Industry Perspective	Sanith S K, SFO
12:45-2:00 PM	Lunch Break	
<b>Session 3</b>		
2:00-2:45 PM	Fiber monitoring and sensing in PON – advancements and challenges	Sandip Das and Michael Straub, NOKIA Bell Lab, Germany
2:45-3:30 PM	Interferometry-Based Quasi-Distributed Fiber Optic Acoustic Sensing for Intrusion Detection	Mr. Pratik Atha, TVS FOSS

3:30-4:00 PM	Tea Break	
<b>Session 4</b>		
4:00-5:00 PM	Flash Presentation - PITCH	<b>P13-P24</b>
5:00 PM onwards	Lab Visit	AOC Testbed/Folium Sensing Lab
<b>Day 3 (30/01/2026)</b>		
<b>Session 1</b>		
9:00-10:00 AM	Distributed Fiber Optic Sensing (DFOS) Technology: Transforming Optical Fiber into a Real-Time Infrastructure Intelligence Platform	Meenakshi Singh, JMV LPS Ltd
10:00-10:45 AM	Proactive Monitoring of Critical Infrastructure with Distributed Acoustic Sensing and Supervised Machine Learning	Dr. Nagaraju Subramanyam, Sterlite Technology Limited
10:45-11:15 AM	Tea Break	
<b>Session 2</b>		
11:15-12:00 PM	Networking in Era of Space Division Multiplexing	Prof. Abhijit Mitra, IIT Delhi
12:00-1:00 PM	Advances in Optical Transmission Technology	Dr. Kumar Sivarajan, Tejas Networks
01:00-2:30 PM	Lunch Break	
<b>Session 3</b>		
2:30-3:15 PM	Distributed fiber optical sensing and communication	Laurenz Ebner, Fraunhofer HHI, Germany
3:15-4:15 PM	Flash Presentation - PITCH	<b>P25-P36</b>
4:15- 4:30 PM	Conclusion	

### List of Flash Presentation (P)

Day 1		Day 2		Day3	
P#	Presenter	P#	Presenter	P#	Presenter
<b>P01</b>	Nikhil Pradhan	<b>P13</b>	Kishore Kumar	<b>P25</b>	Siya Shahin P
<b>P02</b>	Mamta	<b>P14</b>	Elisa Prathibha Mathew	<b>P26</b>	Anjali Saleef
<b>P03</b>	Margarat M	<b>P15</b>	Surabhi Raj	<b>P27</b>	Prateek Shokeen
<b>P04</b>	Sandhana Mahalingam M	<b>P16</b>	Subbash P	<b>P28</b>	Pavithra S
<b>P05</b>	Nithya Priya	<b>P17</b>	Dr. S. Sugumaran	<b>P29</b>	B.S.V. Swati
<b>P06</b>	Kimaya Kerkar	<b>P18</b>	Dr. K. Ragini	<b>P30</b>	Shayna Kumari
<b>P07</b>	Nayana Madhu Deshpande	<b>P19</b>	Bhuvanewari M S	<b>P31</b>	Parvathy R Kartha
<b>P08</b>	Hanna KP	<b>P20</b>	Lenin B	<b>P32</b>	Naresh Choudhary
<b>P09</b>	Aswin Raj	<b>P21</b>	Alista Mariya Abraham	<b>P33</b>	Anulekha K A
<b>P10</b>	Vivek Sankar J	<b>P22</b>	Jaydeep Singh	<b>P34</b>	Bhuvanewari Krishna P
<b>P11</b>	Sreeraj R	<b>P23</b>	Dr. V. Anusooya	<b>P35</b>	Anna Ciciliya James
<b>P12</b>	Krishnamariselvi T	<b>P24</b>	Prabakaran Sukumar	<b>P36</b>	Aswathi P S