



International Conference on Chalcogenides and Applied Photonics (ICCAP 2026)
30-31st July, 2026, Indian Institute of Science, Bengaluru

Day 1: 30th July, 2026

	Program Schedule	Time
	Inaugural Session <i>Venue: Faculty Hall, IISc</i>	9.00 – 10.30 am
	High Tea	10.30 – 11.00 am
	Technical Session I <i>Venue: Faculty Hall, IISc</i> <i>Chair: Prof Balaji Srinivasan</i>	
KT-01	<i>Changing the Phase of Photonics: Toward Scalable, Programmable Optical Systems</i> Prof. Juejun Hu , MIT, USA	11.00 – 11.40 am
IT-01	<i>Integration of Phase Change Materials Programmable Photonic Integrated Circuits</i> by Prof. S. K. Selvaraja , CeNSE, IISc	11.40 – 12.05 pm
IT-02	<i>Field deployable fiber optic heavy metal ion sensors down to ppb levels</i> Prof. V. V. Ragavendra Sai , IIT Madras	12.05 – 12.30 pm
IT-03	<i>Giant piezo shear drives electronic instabilities and phase transitions in layered ferroelectric In₂Se₃</i> Dr. Pavan Nukala , CeNSE, IISc	12.30 – 12.55 pm
	Lunch	1.00 – 2.30 pm
	Technical Session-II <i>Venue: SVN Auditorium, IAP, IISc</i> <i>Chair: Prof. Ritesh Agarwal</i>	
IT-04	<i>Sb₂S₃ reprogrammable photonics: Bonding, Optical Contrast, Challenges, and Opportunities</i> by Prof. Robert E Simpson , University of Birmingham, UK	2.30 – 2.55 pm
IT-05	<i>Sensing the World Around us - Multi-Parameter Distributed Fiber Sensors Using Telecom-Grade Optical Fibers</i> by Prof. Balaji Srinivasan , IIT Madras	2.55 – 3.20 pm
OT-01	<i>Ultra-fast Threshold switching dynamics in Ge₁₅Te_{85-x}Si_x devices for Neuromorphic computing Applications</i> by Y. Rajeswari , IIT Madras	3.20 – 3.30 pm
OT-02	<i>Chalcogenide and Tellurite Glasses for NIR and MIR Photonics, Sensing, and Light Conversion</i> , S. K. Jakka , University of Aveiro, Portugal	3.30 – 3.40 pm
OT-03	<i>Positive Correlation Energy and Valence Alternation Pairs in Chalcogenide Glass</i> by Deepak Marwal , University of Delhi, Delhi	3.40 – 3.50 pm
OT-04	<i>Resonance Frequency-Dependent Biomechanical Assessment of Bone Fracture Healing Progression Using Fiber Bragg Grating Sensor</i> by Archana , CGCRI, Kolkata	3.50 – 4.00 pm
OT-05	<i>Promotional</i> , GE Office, IIT Madras	4.00 – 4.10 pm
	Technical Session-III <i>Venue: IAP Terrace, IISc</i> <i>Tea and Poster</i>	4.10 – 5.30 pm
	Felicitation/Banquet Dinner	6.30 pm onwards

Day 2: 31st July, 2026

	Program Schedule	Time
	Technical Session-IV Venue: SVN Auditorium, IAP, IISc Chair: Prof. Shankar Kumar Selvaraja	
KT-02	Novel optoelectronics in twisted electronic and photonic crystals – a sangam of electronic and photonic length scales Prof. Ritesh Agarwal , University of Pennsylvania, USA	9.00 - 9.40 am
IT-06	Rapid trace gas sensing using wavelength modulated near-IR and mid-IR tunable semiconductor lasers by Prof. Arup Lal Chakraborty – IIT Gandhi Nagar	9.40 – 10.05 am
IT-07	Electro-thermal analysis of device geometry dependence on the amorphous cap size in phase change memory devices Dr. Shivendra Kumar Pandey , NIT, Silchar, Assam	10.05 – 10.30 am
IT-08	Controlling Light by Engineered Nanostructures by Dr. Tapajyoti Das Gupta , IAP, IISc	10.30 – 10.55 am
	Tea Break	10.55 – 11.15 am
	Technical Session-V Venue: SVN Auditorium, IAP, IISc Chair: Prof. A. Srinivasan	
IT-09	Optical Properties of Chalcogenide Phase-Change Thin Films: Disorder, Thickness, and Interface Effects by Prof. Andriy Lotnyk , Leibniz Institute of Surface Engineering (IOM), Leipzig, Germany	11.15 – 11.40 am
IT-10	Interface- and Morphology-driven Spectroscopic Response of CVD-grown 2D Layered Transition Metal Dichalcogenides Prof. Manu Jaiswal , IIT Madras	11.40 – 12.05 pm
IT-11	High-purity Ge-Se-Te chalcogenide glasses for broadband 2-17 μm Infrared Optics Dr. K. Ramesh , Department of Physics, IISc	12.05 – 12.30 pm
OT-06	Microwave-Assisted Coating of Vanadium pentoxide (V_2O_5) on Etched Fiber Bragg Grating Sensors for Wide-Range Temperature Sensing by Dr. S. Sridhar , VIT, Vellore	12.30 – 12.40 pm
OT-07	Influence of Annealing Temperature on the Structural and Optical Characteristics of GeSeTeSb Films by Anila Thomas , CUST, Cochin	12.40 – 12.50 pm
OT-08	Wafer scale Fabrication of periodic Silicon Nanopillar-Based 2D Photonic crystal through Nano-Imprint lithographic by G. K. Sneha , Reva University, Bengaluru	12.50 – 1.00 pm
	Lunch Break	1.00 – 2.00 pm

	Program Schedule	Time
	Technical Session-VI Venue: SVN Auditorium, IAP, IISc Chair: Prof. Robert E Simpson	
IT-12	<i>Adaptive Dielectric Thin Film Transistors by Prof. Sanjiv Sambandan, IAP, IISc</i>	2.00 – 2.25 pm
IT-13	<i>Sn-Engineered GeTe Chalcogenides: From Tuneable Phase Transitions to Memory and Photodetection Technologies by Dr. Vinod E. Madhavan – NIT Calicut</i>	2.25 – 2.50 pm
IT-14	<i>Chalcogenide Glasses for Advanced Infrared Imaging and Sensing by Dr. Anupama Yadav, University of Delhi, Delhi</i>	2.50 – 3.15 pm
OT-09	<i>Composition-Dependent Crystallization Behaviour and Suitability of $\text{Ge}_x\text{Te}_{1-x}$ for OTS Selector and Memory Applications by Dr. K. D. Shukla</i>	3.15 – 3.25 pm
OT-10	<i>Chalcogenides-coated Optical Fiber Bragg Grating Device for Photodetection and Optical Modulation Applications by Koushik IIT Madras</i>	3.25 – 3.35 pm
OT-11	<i>Fiber Bragg Grating based Micro-EDM Discharge Detection with Hall-Effect validation by Arjita Das</i>	3.35 – 3.45 pm
OT-12	<i>Investigations on Lead-Free Perovskite embedded in Tellurite Glasses for Photonic Applications by D. Eswari, VIT, Chennai</i>	3.45 – 3.55 pm
	Tea Break	3.55 – 4.20 pm
	Valedictory	4.20 – 5.00 pm

KT- Keynote Talk; **IT-** Invited Talk; **OT-** Oral Talk