

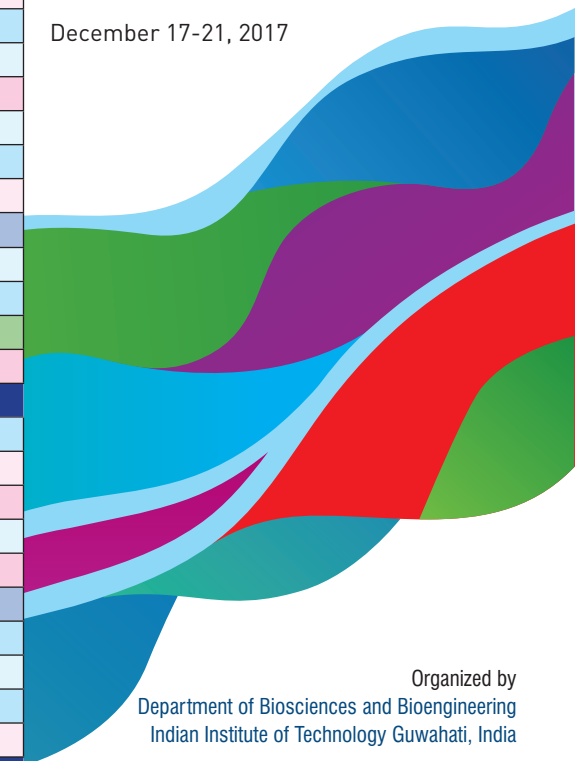
Day 0: 16th December 2017		Venue: Lecture Hall 2
	Primer on optics and spectroscopy [Teachers: SM and GK]	
10:00 am to 1:30pm:	Optics refresher theory (1 hr by SM) + Lab component (2 hr; telescope building)	
11:00 to 11:30 am	TEA BREAK:	
1:30 pm to 3:00 pm	LUNCH:	
3:00 pm to 8:30 pm:	Spectroscopy theory (1 hr by SM and 1 hr by GK) + Lab component (3 hr; Fluorimeter and Imager)	
5:00 to 5:30 pm	TEA BREAK	
8:30 pm to 9:30 pm:	DINNER	
Day 1: 17th December 2017		HORIBA OPTICAL SCHOOL
8:15 am to 09:15 am:	FCS component [Teachers: SM and TW]	Venue: Lecture Hall 2
09:30 to 10:15 am	INAUGURATION by Prof. Gautam Biswas, Director, IIT Guwahati	Venue: BH Mini Auditorium
10:15 to 11:00 am:	HIGH TEA	
11:00 am to 1:00: pm:	FCS component continued [Teachers: SM and TW]	
	Theory part 3 hrs divided by two teachers	
1.00 pm to 2:00 pm:	LUNCH	
2:00 pm to 5:00 pm:	Ultrafast/TCSPC Component [Teachers: AD, SS, TS and GK]	
	Theory part for 3 hours shared by all teachers	
5:00 to 5:30 pm	TEA BREAK:	
5:30 pm to 6:00 pm:	HORIBA PRESENTATION	
	Speaker: Mr. Cary Joseph Davies, Global Fluorescence Product Line Manager, HORIBA Instruments Inc., USA	
	Title of talk: New Application and Latest Development in Fluorescence Spectroscopy	
6:00 pm to 9:00 pm:	Parallel Lab component A: FCS/TCSPC/TIRF/RAMAN with Tutorials	
9:00 pm to 10:00 pm:	DINNER	
Day 2: 18th December 2017		
8:15 am to 1:00 pm:	Raman component [Teachers: JD, CN, AR] Theory	Venue: BH Mini Auditorium
10:15 to 10:45 am	TEA BREAK	
1.00 pm to 2:00 pm:	LUNCH	
2:00 pm to 5:30 pm:	Microscopy Component [Teachers: SM, TS and BJ] Theory	
3:30 to 4:00 pm	TEA BREAK:	
5:30 pm to 6:00 pm:	HORIBA PRESENTATION	
	Speaker: Dr. Eric Teboul, Deputy General Manager and Vice President, HORIBA Instruments Inc., USA	
	Title: Instrument in Science and Technology	
6:00 pm to 9:00 pm:	Parallel Lab component B: FCS/TCSPC/TIRF/RAMAN with Tutorials	
9:00 pm to 10:00 pm:	DINNER	
Day 3: 19th December 2017		
8:15 am to 11:15 am	Parallel Lab component C: TCSPC/FCS/TIRF/Raman with Tutorials	
11.15 am to 11.45 am	TEA	
11:45 am	HORIBA Presentation	Venue: BH Mini Auditorium
	Speaker: Dr. Ramdane BENFERHAT, Director-Marketing, Innovation & Strategy, HORIBA France SAS, France	
	Title: Raman Spectroscopy from its discovery to today's challenges	
12:15 pm to 12:30 pm	Presentation by DSS	
12:30 pm to 12:45 pm	Presentation by Leica Speaker: Madhukar Chaudhari	
	Title: Latest advanced Imaging technologies by Leica	
1.00 pm to 2:00 pm:	LUNCH	



FLUORESCENCE SOCIETY

National Workshop on Fluorescence and Raman Spectroscopy

December 17-21, 2017



Organized by
Department of Biosciences and Bioengineering
Indian Institute of Technology Guwahati, India

Co-Organized by
Tata Institute of Fundamental Research, Mumbai
& FLUORESCENCE SOCIETY

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Research Conference Sessions Begin				
2:00 pm to 6:00 pm:		Fluorescence Spectroscopy <i>Session Chair : Prof. G. Krishnamoorthy</i>	Venue: BH Mini Auditorium	
2:00 pm	Subi J George	Supramolecular Approach for Ambient Triplet Harvesting		Talk 1
2:30 pm	Shivprasad Patil	Rheology of Nanoconfined Water using Fluorescence Correlation Spectroscopy		Talk 2
3:00 pm	Sivaprasad Mitra	Time-Resolved Studies on ESIPT Systems: Targeted Manipulation of Multiple Emissive States		Talk 3
3:30 pm	Govindarajan Krishnamoorthy	Excited State Proton Transfer Induced Charge Transfer and Proton Transfer		Talk 4
4:00—4:30 pm	TEA BREAK			
4:30 pm	Chandrabhas N.	Pressure induced topological transitions		Talk 5
5:00 pm	P. Ramamurthy	Acridinedione-a latent finger print marker and the most sensitive organic fluorogenic probe for Fluoride ion		Talk 6
5:30 pm	Ravindra Venkatramani	A New Spectral Window for Proteins Based on Optical Charge Transfer Transitions Arising from Charged Amino Acids		Talk 7
6:00 pm	Sukhendu Nath	Ultrafast Molecular Rotor (Umr) Based Amyloid Sensors		Talk 8
6:30 pm:	All delegates board the BUS to reach Dinner venue			
7:00 pm to 10:00 pm:	FCS2017 Conference Dinner and Horiba Product Launch			
Day 4: 20th December 2017			Venue: BH Mini Auditorium	
8:15 am to 12:45 pm:		Fluorescence (Chemistry, Materials) <i>Session Chair: Prof. Thorsten Wohland</i>		
8:15 am	Ron Naaman	Chiral molecules as nano-spintronics devices		Talk 9
8:45 am	A S Achal Kumar	Tuning the self-assembly and photophysical properties of heterocyclic derivatives and their application in OLEDs		Talk 10
9:15 am	Subhadip Ghosh	Molecular Recognitions in a Dendrimer Assembly		Talk 11
9:45 am	Prasun K Mandal	Carbon Dot Photoluminescence: Why, Where and How?		Talk 12
10:15—10:45 am	TEA BREAK			
10:45 am	Ruchi Anand	Motional Dynamics in Protein-DNA Complexes		Talk 13
11:15am	Moloy Sarkar	Differences in the Behavior of Dicationic and Monocationic Ionic Liquids as Revealed by Time Resolved-Fluorescence, Electron Paramagnetic Resonance (EPR), NMR, and Fluorescence Correlation Spectroscopy (FCS) Study		Talk 14
11:45 pm	Kalyanasis Sahu	Site-selective Probing of Reverse Micelles Using Excited State Proton Transfer		Talk 15
12:15 pm	Jagadish Sankaran	Deconstructing the factors that modulate the mobility of molecules in microcolonies of <i>Pseudomonas aeruginosa</i> biofilms using SPIM FCS		OP 1
12:30 pm	Jessy Marium	Fluorescent nucleotide analogues to probe polar arrest by Fob1 in replication fork barrier sequence		OP 2
12:45 pm to 1:45 pm:	LUNCH			
1:45 pm to 4:30 pm:		POSTERS	Venue: Room 1205, Core 1, Acad. Complex	
4:30 pm to 9:00 pm:		Raman and Fluorescence <i>Session Chair: Prof. Jaydeep Basu</i>	Venue: BH Mini Auditorium	
4:30 pm	Ishan Barman	Detecting early stages of cancer metastasis with Raman spectroscopy		Talk 16
5:00 pm	Nakul C Maiti	Understanding Protein Oligomer Structure by Raman Spectroscopy		Talk 17
5:30 pm	Mahesh Hariharan	Strategies to Reduce the Rate of Charge Recombination		Talk 18
6:00 pm	Jyotishman Dasgupta	Ultrafast bridge planarization in donor- π -acceptor copolymers drives intramolecular charge transfer		Talk 19
6:30—7:00 pm	TEA BREAK			
7:00 pm	Thorsten Wohland	Extension of the Diffusion Law in Imaging Fluorescence Correlation Spectroscopy to Multi-Component Cases		Talk 20
7:30 pm	Trevor Smith	Fluorescence anisotropy imaging of polymeric and bio-materials		Talk 21
8:00 pm	Anindya Datta	Physical and chemical methods for engineering the fluorescence of a Schiff base		Talk 22
8:30 pm	Edamana Prasad	Lighted Self-Assemblies		Talk 23
9:00 pm to 10:00 pm:	DINNER			
Day 5: 21st December 2017			Venue: BH Mini Auditorium	
8:15 am to 12:45 pm:		Cell Biology and Membranes <i>Session Chair: Prof. Trevor Smith</i>		
8:15 am	Sudipta Maiti	Towards the Structure of Amyloid- β Oligomers in the Membrane		Talk 24
8:45 am	Sobhan Sen	New Insight into Probe-Location Dependent Polarity, Energy Transfer and Hydration Dynamics at Lipid/Water Interfaces		Talk 25
9:15 am	Rahul Roy	Nanoscale assembly on biomembranes		Talk 26
9:45 am	Jaydeep Basu	Complex Nanoscale Lipid Dynamics in Model Biomembranes: Insights from STED-FCS		Talk 27
10:15—10:45 am	TEA BREAK			
10:45 am	Senthil Arumugam	Dynamic organization of the earliest endosomes - a Lattice light-sheet study		Talk 28
11:15 am	Arindam Chowdhury	An Approach to Estimate Spatial Distribution of Analyte within Cells using Spatially-resolved Fluorescence Spectroscopy		Talk 29
11:45 am	Balaji Jayaprakash	Identification of neuronal and synaptic correlates of memory through in vivo microscopy		Talk 30
12:15 pm	Samir K. Maji	Altered site-specific dynamics of soluble and membrane bound α -Synuclein by its familial mutations		Talk 31
12:45 pm to 1:30 pm	LUNCH			
1:30 pm to 4:30 pm		POSTERS	Venue: Room 1205, Core 1, Acad. Complex	
4:30 pm to 9:00 pm:		Protein Fluorescence <i>Session Chair: Prof. Sudipta Maiti</i>	Venue: BH Mini Auditorium	
4:30 pm	G. Krishnamoorthy	Beyond two-state protein folding: Site-specific time-resolved FRET		Talk 32
5:00 pm	Ankona Datta	Fluorescent Probes for Imaging Essential Biomolecules		Talk 33
5:30 pm	Tushar Kanti Mukherjee	Insights into the Unusual Intrinsic Blue Fluorescence from Human Serum Albumin		Talk 34
6:00 pm	E Siva S Iyer	Photoselective Femtochemistry of microbial retinal proteins		Talk 35
6:30—7:00 pm	TEA BREAK			
7:00 pm	Rama Reddy Goluguri	Microsecond sub-domain motions and folding of mouse prionprotein		OP 3
7:15 pm	Amrendra Kumar	Label-free approach for detection of protein aggregation		OP 4
7:30 pm	Best Poster prizes, Certificate distribution, CLOSING REMARKS			
9:00 pm:	DINNER			