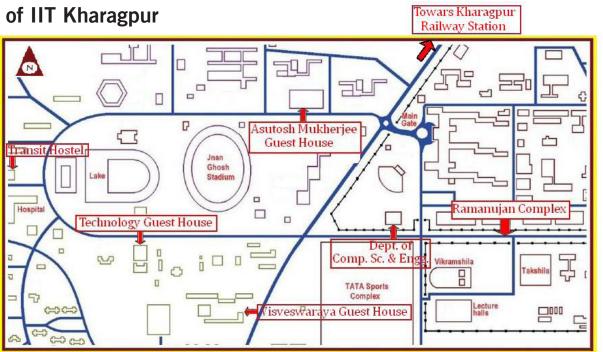
Day 4, Tuesday, December 6, 2022

Session-14	LASERS IN CHEMISTRY AND BIOLOGY	
9:30-10:00	Dr. Rashmi Shrivastava, RRCAT Indore Emerging Paradigms in Biophotonics for Diagnosis and Management of Diseases	IT-21
10:00-10:30	Prof. Sajan D. George, MAHE Manipal Nanoscale Surface Engineering: Applications in Biology and Chemistry	IT-22
10:30-11:00	Dr. Vinu Namboodiri, BARC Mumbai Superresolved microscopy using defocused orientation and position imaging (DOPI)	IT-23
11.00-11:15	Tea Break	
Session-15	LASER SPECTROSCOPY	
11:15-11:45	Dr. Asawari Rath, BARC Mumbai Insight into Selective photoionization of Lu-176 using RIMS	IT-24
11:45-12:15	Prof. Nilmoni Sarkar, IIT Kharagpur Understanding The Self-Assembly of Biological Building Block Molecules and Their Impact on Membranes	IT-25
Session-16	CONCLUDING SESSION	
12:15-13:15	Award Presentation and Concluding Ceremony	
13:15-14:00	Lunch	

Contact Details of Volunteers:

1.	Transport: Mr. Tara Singha,	Ph: 9800050985
2.	Accommodation: Mr. Shailab Singh Godra,	Ph: 7549017956
3.	Technical Sessions: Mr. Devarshi Chakrabarty,	Ph: 8017600170

Map of IIT Kharagpur



Sessions Schedule for NLS-31

Day 1, Saturday, December 3, 2022

Session-1	Inaugural Session	
9:30-10:00	Welcoming of Dignitaries and Guest of Honour	
10:00-10:30	Address by Chief Guest Dr. R. Chidambaram, Chairman (Honorary), School of Advanced Studies in Nuclear Science and Technology, BARC	
10:30-11:15	Keynote Address Dr. S.K. Sarkar, Former GD, Chemistry Group, BARC and RRF, DAE Chronicles of Chemical Dynamics	
11.15-12:00	Inauguration of Industrial Exhibition followed by High Tea	
Session-2	ADVANCED LASER TECHNOLOGIES AND APPLICATIONS	
12:00-12:30	Prof. V.R. Supradeepa, IISc Bangalore High Power Narrow-Linewidth Fiber Lasers for Directed Energy Applications	IT-01
12:30-13:00	Shri D.N. Sanyal, NPCIL Mumbai Laser based Technology Innovations for use in Nuclear Power Plants	IT-02
13:00-14:00	Lunch Break	
Session-3	POSTER SESSION I	
14:00-16:30	Poster Presentations	PP-1
16:30-16:45	Tea Break	
Session-4	LASER INSTRUMENTATION AND SENSORS	
16:45-17:15	Prof. Sunil Khijwania, IIT Guwahati All-Optical Smart Sensing for Structural Health Monitoring using FBG and Specialty Fiber	IT-03
17:15-17:45	Dr. N. Kawade, BARC Mumbai Dual Mach-Zehnder Interferometer based Optical Fiber Sensor for Perimeter Intrusion Detection System	IT-04
17:45-18.15	Prof. Rajan Jha, IIT Bhubaneswar Broadband LED based Modal Interferometer for potential Device Devlopment	IT-05
	Tea Break	
19.00- 20.00 Evening talk	Special Evening Talk-1 Prof. R.P. Singh, PRL Ahmedabad Free space quantum communication	SET-01
	BANQUET	'

Day 2, Sunday, December 4, 2022

Session-5	NANO-PHOTONICS	
9:30-10:00	Prof. Sajal Dhara, IIT Kharagpur Exploring exciton-photon interactions in 2D materials with twist and turn of light beam	IT-06
10:00-10:30	Prof. Y. Ramachandra Rao, Univ. of Hyderabad Optical nanofibers: a versatile platform for Nanophotonics and Quantum Optics	IT-07
10:30-11:00	Prof. Rajesh V. Nair, IIT Ropar Harnessing color centers in diamond for quantum technologies	IT-08
11.00-11:15	Tea Break	
Session-6	INDUSTRIAL AND DEFENCE APPLICATIONS OF LASERS	
11:15-11:45	Dr. C.P. Paul, RRCAT Indore LAM Activities at RRCAT	IT-09
11:45-12:15	Prof. Swarup Bag, IIT Guwahati A perspective on laser welding of metallic materials: Modelling and experiments	IT-10
12:15-12:45	Dr. Gaurav Singhal, CHESS Hyderabad High Power Laser Source Technology and Applications	IT-11
12:45-13:30	Lunch Break	
Session-7	POSTER SESSION II	
13:30-16:00	Poster Presentations	PP-2
16:00-16:15	Tea Break	
Session-8	ULTRAFAST LASERS AND APPLICATIONS	
16:15-16:45	Prof. Syamsundar De, IIT Kharagpur Classical and quantum noise of ultrafast light	IT-12
16:45-17:15	Dr. P.K. Mukhopadhyay, RRCAT Indore Generation of pulses in diverse temporal formats from modelocked all-normal dispersion fiber laser	IT-13
17:15-17.45	Prof. Jayeeta Bhattacharya, IIT Madras Carrier dynamics in semiconductors studied using ultrafast lasers	IT-14
17.45-18:00	Tea Break	
18.00- 19.00	ILA General Body Meeting	
	CULTURAL PROGRAM & DINNER	

Day 3, Monday, December 5, 2022

Session-9	INTERNATIONAL YEAR OF GLASS	
9:30-10:00	Dr. K. Annapurna, CGCRI Kolkata An endeavor towards indigenous technology development of large size Nd3+-doped phosphate glass rods and discs: A preferred gain medium in high energy-high power Lasers	IT-15
10:00-10:30	Shri Sudipta Bhaumik, Sterlite Tech. Ltd., Pune Glass Optical Fibre: Building blocks of digital connectivity	IT-16
10.30-11:00	Tea Break	
Session-10	PARALLEL SESSIONS	
10A	ELECTRONICS AND INSTRUMENTATION FOR LASERS	
11:00-11:30	Shri Rajesh Arya, RRCAT Indore Laser power supplies and controllers for laser based nuclear field applications	IT-17
11:30-12:00	Dr. Shubendu Ghosh, IUAC New Delhi Commissioning of a coherent tunable THz radiation source based on Free Electron Laser	IT-18
10B	NONLINEAR AND QUANTUM OPTICS	
11:00-11:30	Prof. Tarak Nath Dey, IIT Guwahati Optically sculpting atomic waveguide for vector beams	IT-19
11:30-12:00	Prof. Saptarishi Chaudhuri, RRI Bangalore Laser Cooled atomic mixture as quantum sensors	IT-20
Session-11	Industrial Session	
12:00-13:00	Industry Presentations	
13:00-13:30	Panel Discussion – Industry Academia Interactions	
13:30-14-30	Lunch Break	
Session-12	POSTER SESSION III	
14:30-16:30	Poster presentations	
16:30-16:45	Tea Break	
Session-13	Ph.D. Thesis Presentations	
16:45-19:15	Thesis presentations	
	DINNER	