

Program Schedule for National Laser Symposium – 25

Venue: Convention Centre Auditorium, Campus-6

December 20, 2016		Day-1
Session 1	Inaugural Session	
9:30 – 11:25	<i>Chief Guest Address: Dr. P. R. Vasudeva Rao</i> , Raja Ramanna Fellow, DAE, Former Director IGCAR <i>Keynote Address: Dr. B. N. Jagatap</i> , Director Chemistry Group, BARC Mumbai <i>Wanderings in the Garden of Laser Spectroscopy</i>	
11:25 – 12:00	<i>Inauguration of the ILA Industrial Exhibition by Dr. P. R. Vasudeva Rao and Dr. B. N. Jagatap</i> followed by High Tea	
Session 2	Lasers in Industry and Defence	
12:15 – 12:45	Prof. A. K. Nath , IIT Kharagpur, <i>Recent studies on laser material processing with fiber laser at Indian Institute of Technology Kharagpur</i>	IT-01
12:45 – 13:15	Shri H. B. Srivastava , LASTEC, Delhi, <i>Lasers in homeland security and defence</i>	IT-02
13:15 – 14:15	Lunch	
14:15 – 16:30	Poster Session - 1	PS-01
16:00 – 16:30	Tea/Coffee at Poster / Exhibition Venue	
Session 3	Laser Spectroscopy	
16:30 – 17:00	Prof. S. S. Prabhu , TIFR, Mumbai, <i>New investigations of Tera Hertz (THz) sources and detectors for spectroscopy applications</i>	IT-03
17:00 – 17:30	Prof. D. Goswami , IIT Kanpur, <i>Unraveling dynamics of complex systems: vibrating molecules, colloidal clusters and mixed liquids</i>	IT-04
17:30 – 18:00	Dr. Sukhendu Nath , BARC Mumbai, <i>Two dimensional infrared spectroscopy: Understanding the dynamics of complex chemical systems</i>	IT-05
18:00 – 18:15	Tea/Coffee at Poster / Exhibition Venue	
18:15 – 19:30	Indian Laser Association (ILA) General Body Meeting (Venue: Conference Hall 4 above Banquet Hall)	
19:30	Departure for Symposium Banquet	
20:00	Symposium Banquet	

December 21, 2016		Day-2
Session 4	Lasers and Applications	
09:30 – 10:00	Prof. B. Srinivasan , IIT Madras, Chennai, <i>Challenges to power scaling of high power CW fiber lasers and their mitigation strategies</i>	IT-06
10:00 – 10:30	Prof. Gabriele Ferrini , Universita' Cattolica del Sacro Cuore, Italy, <i>Ultrafast energy transfer at the nanoscale, time resolved spectroscopy and data mining</i>	IT-07
10:30 – 11:00	Dr. H. S. Rawat , RRCAT, Indore, <i>The development of a noble gas atom trap for studies with laser cooled atoms</i>	IT-08
11:00 – 11:25	Tea/Coffee at Poster / Exhibition Venue	
Session 5	Medical Applications	
11:25 – 11:55	Prof. C. Santhosh , Manipal University, Manipal, <i>A laser tweezers Raman spectroscopy study of induced stress in blood cells</i>	IT-09
11:55 – 12:25	Prof. Asima Pradhan , IIT, Kanpur, <i>Towards multimodal diagnostics of early cervical cancer</i>	IT-10
12:25 – 12:55	Dr. C. Murali Krishna , ACTREC, Mumbai, <i>Raman theranostics in cancers: Challenges and perspectives</i>	IT-11
12:55 – 14:00	Lunch	
14:00 – 16:15	Poster Session - 2	PS-02
15.45 – 16.15	Tea/Coffee at Poster / Exhibition Venue	
Session 6	Nonlinear Optics and Applications	
16:15 – 16:45	Prof. A. K. Rai , University of Allahabad, Allahabad, <i>Experimental set up for on-line study of impurities on plasma facing components of Aditya Tokamak using LIBS</i>	IT-12
16:45 – 17:15	Prof. P. Ramasamy , SSN College of Engineering, Chennai, <i>Optical imaging during unidirectional crystal growth and development of high quality nonlinear optical single crystals for device applications</i>	IT-13
17:15 – 17:45	Dr. G. Vijaya Prakash , IIT Delhi, <i>Linear and nonlinear optical studies of molecular level self-assembled systems</i>	IT-14
17:45 – 18:15	BRNS Presentation	
18:15 – 18:45	Tea/Coffee at Poster / Exhibition Venue	
Session 7	Industry Presentations Session	
18:45 – 19:45	Presentations	
20:00	Dinner at Symposium Venue	

December 22, 2016		Day-3
Session 8	Laser Technology	
09:30 – 10:00	Dr. G. K. Samanta , PRL, Ahmedabad, <i>Structured beam parametric sources and optical parametric oscillators</i>	IT-15
10:00 – 10:30	Dr. V. R. Supradeepa , IISc, Bangalore, <i>Raman Fiber Lasers</i>	IT-16
10:30 – 11:00	Dr. K. K. Pant , RRCAT Indore, <i>Free Electron Laser Activity at RRCAT</i>	IT-17
11:00 – 11:30	Dr. Vijay Dixit , RRCAT Indore, <i>Investigations on the complexities in active region of quantum well laser diode arrays</i>	IT-18
11:30 – 11:45	Tea/Coffee at Poster / Exhibition Venue	
Session 9	Thesis Presentations Session -1	
11:45 – 13:05	Ph.D. Thesis Presentations (20 min. each : 4 presentations)	TH-1-4
13:05 – 14:15	Lunch	
14:15 – 16:30	Poster Session - 3	PS-03
16:00 – 16:30	Tea/Coffee at Poster / Exhibition Venue	
Session 10	Thesis Presentations Session -2	
16:30 – 18:30	Ph.D. Thesis Presentations (20 min. each : 6 presentations)	TH-5-10
18:30 – 19:00	Tea/Coffee at Poster / Exhibition Venue	
19:00 – 20:00	Cultural Program	
20:00	Dinner at Symposium Venue	

December 23, 2016		Day-4
Session 11	Laser Spectroscopy	
09:30 – 10:00	Dr. B. R. Boruah , IIT Guwahati, <i>Wavefront sensing of light beams using an array of dynamic holograms</i>	IT-19
10:00 – 10:30	Dr. Sunita Kedia , BARC Mumbai, <i>Efficient energy transfer between donor-acceptor in photonic band gap environment</i>	IT-20
10:30 – 11:00	Dr. S. Pradhan , BARC, Mumbai, <i>Controlling atomic dynamics using coherent light and emerging technologies</i>	IT-21
11:00 – 11:30	Tea/Coffee at Poster / Exhibition Venue	
Session 12	Laser Material Processing	
11:30 – 12:00	Dr. C. P. Paul , RRCAT, Indore, <i>Laser additive manufacturing: A paradigm shift in engineering manufacturing</i>	IT-22
12:00 – 12:30	Dr. Pankaj Misra , RRCAT, Indore, <i>Pulsed laser deposition of ultra-thin films of metal oxides for logic and memory devices</i>	IT-23
12:40 - 13:15	Concluding Session and Prize Distribution	
13:15 – 14:15	Lunch	

Venue details:

1. All invited talks, industrial presentations, inaugural session and concluding session: Convention Centre Auditorium, Campus-6
2. Poster Sessions: Adjacent to Convention Centre Auditorium, Campus-6
3. ILA Industrial Exhibition: Adjacent to Convention Centre Auditorium, Campus-6
4. High Tea: Banquet Hall, Convention Centre, Campus-6
5. Lunch: Banquet Hall, Convention Centre, Campus-6