

15 December 2017

Time (HHMM)	Hall A: LH325	Hall B: LH318	Hall C: LH316	Hall D: LH310
0900-0950	Plenary Talk 5 : Prof. Masataka Higashiwaki, NIICT, Tokyo, Japan			
1000-1030	3N17 Dr. Patrick Fay University of Notre Dame, USA	CG05 Prof. Siddha Pimpurkar Lehigh University, USA	VT10 Prof. Kerem Camsari Purdue University, USA	2D12 Prof. O N Srivastav ITBHU, Varanasi, India
1030-1100	3N18 Prof. Debdeep Jena Cornell, Ithaca, NY, USA	CG06 Dr. Zbigniew Galazka Leibniz Institute for Crystal Growth, Berlin, Germany	VT11 Dr. H S Jatana SCL, Chandigarh, India	2D13 Dr. Doron Naveh BIU University, Israel
1100-1120	Tea			
1120-1210	Plenary Talk 6 : Prof. Bob Karlicek, Rensselaer Polytechnic Institute, NY, USA			
1220-1250	CS06 Prof. Huiji Grace Xing Cornell, Ithaca, NY, USA	CG07 Dr. Arnab Bhattacharya TIFR, Homi Bhabha Road, Mumbai, India	FE09 Prof. Soumya Dutta IIT-Madras, Chennai, India	2D14 Dr. Berardi Sensale Rodriguez The University of Utah, UT, USA
1250-1320	C33&C34	CG08 Dr. Praveen Saxena Tech Next Pvt. Ltd., Lucknow, India	C35&C36	2D15 Prof. B R Mehta IIT-Delhi, New Delhi, India
1330-1430	Lunch			
1430-1500	3N19 Prof. Kenji Shiraishi Institute of Material Systems for Sustainability, Nagoya University, Nagoya, Japan	CG09 Dr. J Kumar Crystal Growth Center, Anna University, Chennai, India	PV06 Dr. Trilok Singh Toin University of Yokohama, Japan	2D16 Prof. Ananth Dodabalapur The University of Texas at Austin, USA
1500-1530	3N20 Prof. Siddharth Rajan The Ohio State University, USA	CG10 Prof. Anirban Bhattacharya University of Calcutta, Kolkata, India	PV07 Dr. Shaibal Sarkar IIT-Bombay, India	2D17 Prof. Subhashis Ghosh JNU, Delhi, India
1530-1600	C37&C38	C39&C40	PV08 Dr. H. Saha IEST-Kolkata, India	2D18 Prof. K. D. Mandal ITBHU, Varanasi, India
1600-1630	C41&C42	C43&C44	C45&C46	
1630-1830	Poster Session-III			
1830-1900	Discussion / Valedictory			

**Selected Contributory Oral Talks**

Program Slot	Name	Program Slot	Name
C01	Ms. Nisha Chugh	C24	Dr. Prabir Kanti Basu
C02	Ms. Manjari Garg	C25	Ms. Akanksha Rawat
C03	Mr. Vaibhav Pahwa	C26	Dr. Rajesh Kumar Bag
C04	Ms. Anjanashree M R	C27	Ms. Khushbu Mehta
C05	Dr. Kadir Abdul	C28	Mrs. Shaveta Rajial
C06	Dr. Puspashree Mishra	C29	Mr. Bhera Ram Tak
C07	Mr. Sandeep Kumar	C30	Mr. Abhishek Sharma
C08	Mr. Yogendra Yadav	C31	Mr. Anil Kumar
C09	Mrs. Navneet Kaur Saini	C32	Dr. Renuka Saxena
C10	Mrs. Neha Aggarwal	C33	Mr. Reet Chaudhuri
C11	Mr. Hemanjaneyulu Kuruva	C34	Mr. Chandan Sharma
C12	Ms. Shruti Subramanian	C35	Ms. Paramita Maiti
C13	Mr. Sankalp Kumar Singh	C36	Mr. Madhu Seetharaman S
C14	Ms. Mariyal R	C37	Mr. Dipankar Jana
C15	Dr. V Seena	C38	Dr. Sonalee Kapoor
C16	Dr. Deepak Kumar	C39	Mr. Sudeep Verma
C17	Dr. Ajay Singh	C40	Mr. Subodh Tyagi
C18	Ms. Kusum Sharma	C41	Mr. Akhilesh Pandey
C19	Ms. Bhumika Chaudhary	C42	Mr. Ayush Khandelwal
C20	Mr. Ashish Kulkarni	C43	Mr. Subhomoy Halder
C21	Mr. Pratay Poddar	C44	Mr. Amal Das
C22	Dr. Partha Pratim Das	C45	Dr. Rachna Manchanda
C23	Mr. Vikas Nandal	C46	Mr. Prashant Singh

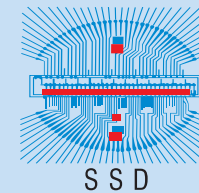
**Abbreviations**

3N	III-Nitride: Materials and Devices
CS	Compound Semiconductors
VT	VLSI Technology
OE	Optoelectronics
SN	Sensors
PV	Photovoltaics
CG	Crystal growth, Epitaxy and Characterization
2D	2D Materials and Organic Semiconductors
DS	Display Technologies
FE	Flexible Electronics
QC	Semiconductors for Quantum Computing

**Conference Secretariat:**

**Dr Rajesh K Sharma**  
Chairman, IWPSD-2017  
✉ chairman.iwpsd2017@gmail.com

**Dr D S Rawal**  
Secretary, IWPSD-2017  
✉ secretary.iwpsd2017@gmail.com



# XIX International Workshop on The Physics of Semiconductor Devices

# IWPSD 2017

December 12-15, 2017

IIT Delhi, Hauz Khas, New Delhi

## Technical Program

**Jointly Organized by**

**Solid State Physics Laboratory, Delhi**  
**Defence Research & Development Organisation**  
**and**  
**Indian Institute of Technology Delhi, New Delhi**

# TECHNICAL PROGRAM

# TECHNICAL PROGRAM

12 December 2017					
Time (HHMM) 0830-0930 Registration					
0930-1030 Inauguration					
1030-1100 Tea					
1100-1200 Key Note 1 : Prof. Lars Samuelson, Lund University, Sweden					
1200-1300 Key Note 2 : Prof. Krishna Saraswat, Stanford University, CA, USA					
1300-1400 Lunch					
Time (HHMM)	Hall A: LH325	Hall B: LH318	Hall C: LH316	Hall D: LH310	Hall E: LH308
1400-1430	3N01 Prof. Farid Medjdoub I.E.M.N. - CNRS, France	VT01 Prof. Oussama Moutanabbir Campus de l'Universite de Montreal, Canada	OE01 Prof. Samit K Ray S.N.Bose National Center for Basic Sciences, India	2D01 Prof. Bin Yu State University of New York, USA	QC01 Prof. Martin Brandt Technische Universitat Munchen, Garching, Germany
1430-1500	3N02 Prof. S. Ragahavan IISc Bangalore, India	VT02 Dr. Raymond J. E. Heuting University of Twente, Enschede, Neatherland	OE02 Prof. Sanjay Krishna The Ohio State University, USA	2D02 Dr. Ranjit Pati Michigan Technological University, USA	QC02 Dr. Dimitrie Culcer University of New South Wales, Australia
1500-1530	3N03 Prof. Digbijoy Nath IISc Bangalore, India	VT03 Prof. S. Ashok The Pennsylvania State University, USA	OE03 Dr. Asaf Albo Bar-Ilan University, Israel	2D03 Dr. Saptarshi Das The Pennsylvania State University, USA	QC03 Dr. Go Yusa Tohoku University, Japan
1530-1600	3N04 Prof. Chris G. Van de Walle University of California, SB, USA	VT04 Prof. Renuka P Jindal University of Louisiana, Lafayette, USA	OE04 Dr. Martin Zorn JENOEIK Diode Lab GmbH, Berlin, Germany	2D04 Dr. Ioannis (John) Kymissis Columbia University, NY, USA	QC04 Prof. Jagdish (Jay) Narayan North Carolina State University, USA
1600-1630 Tea					
1630-1730 SC Jain Memorial lecture Prof. Dr. Magnus Willander, Linköping University, Sweden					
1730-1930 Poster Session-I					
1930- Dinner					

13 December 2017					
Time (HHMM)	Hall A: LH325	Hall B: LH318	Hall C: LH316	Hall D: LH310	Hall E: LH308
0900-0950 Plenary Talk 1 : Prof. Roberto Fornari, Universita' di Parma, Italy					
1000-1030	3N05 Prof. Xiaohang Li KAUST, Saudi Arab	VT05 Dr. Udayan Ganguly IIT-Bombay, Mumbai, India	OE05 Prof. Arup Kumar Raychaudhuri S.N. Bose National Center for Basic Sciences, India	DS01 Dr. Gopalan Rajeswaran Grantwood Technologies Inc., USA	CG01 Prof. Ishwara Bhat Rensselaer Polytechnic Institute, Troy, NY, USA
1030-1100	3N06 Prof. Amitabh Chatterjee IIT-Guwahati, India	VT06 Prof. Jiro Ida Kanazawa Institute of Technology, Japan	OE06 Prof. Srinivasan Anand KTH Royal Institute of Technology, Sweden	DS02 Dr. Mike Hack UNIVERSAL DISPLAY CORP., NJ, USA	CG02 Dr. Boćkowski Michal Institute of high pressure physics, Poland
1100-1130 Tea					
1130-1200	3N07 Prof. Hiroshi Fujitoka The University of Tokyo, Japan	VT07 Dr. Vikas Rana Forschungszentrum Jülich, Germany	OE07 Dr. Piotr Martyniuk Applied Physics Institute, Military University of Technology, Warsaw, Poland	DS03 Prof. Gurumurthy Hegde Centre for Nano Materials and Displays, BMS R&D Centre, Bangalore, India	CG03 Prof. Alain Claverie CEMES-CNRS, France
1200-1230	3N08 Prof. Steven Ringel The Ohio State University, USA	VT08 Dr. K V R M Murali IBM, USA	OE08 Prof. Ritesh Agarwal University of Pennsilvenia, USA	DS04 Dr. Jean Ho Song Twin Star Display Technologies, Pune, India	CG04 Prof. K. Jeganathan Bharathidasan University, Tamil Nadu, India
1230-1300	C01&C02	C03&C04	OE09 Prof. Sung Tae Shin Light Polymers Inc. and Korea University, South Korea	DS05 Dr. Harit Doshi Low Power Highly Reflective Electrophoretic Display Technology, India	C05&C06
1300-1400 Lunch					

1400-1430	3N09 Dr. Srabanti Chowdhury University of California, Davis, USA	SN01 Dr. Aravind Vijayaraghavan University of Manchester, UK	2D05 Dr. Jr-Hau He CEMSE Division, KAUST, Saudi Arab	FE01 Dr. Amlan J Paul IACS, Kolkata, India	CS01 Dr. Sudhiranjan Tripathy IMRE, Singapore, Singapore
1430-1500	3N10 Prof. Yogesh Singh Chauhan IIT-Kanpur, India	SN02 Prof. Hidekuni Takao Kagawa University, Japan	2D06 Prof. Toru Kanazawa Tokyo Institute of Technology, Japan	FE02 Dr. Dinesh Kabra IIT-Bombay, Mumbai, India	CS02 Dr. Ashok Kapoor SSPL, Delhi, India
1500-1530	3N11 Prof. Sreepad Karmalkar IIT-Chennai, India	SN03 Dr. J. S. B. S. Rawat SSPL, Delhi, India	2D07 Dr. Bhakti Jariwala The Pennsylvania State University, USA	FE03 Dr. Dipti Gupta IIT-Bombay, Mumbai, India	CS03 Prof. Anjan Chakraborty IIT Madras, Chennai, India
1530-1600	C07&C08	C09&C10	C11&C12	FE04 Dr. Debdutta Ray IIT-Madras, Chennai, India	C13&C14
1600- Departure for Kingdom of Dreams for Cultural Evening and Banquet Buses will start at 1630 (sharp) from IITD					

14 December 2017					
Time (HHMM)	Hall A: LH325	Hall B: LH318	Hall C: LH316	Hall D: LH310	Hall E: LH308
0900-0950 Plenary Talk 2 : Prof. Partha Dutta, Rensselaer Polytechnic Institute, USA					
1000-1030	3N12 Dr. Mayank Shrivastava IISc Bangalore, India	QC05 Prof. Jeffrey Mccallum University of Melbourne, Australia	SN04 Dr. Sachin N. Sarangi Institute of Physics, Bhubaneswar, India	FE05 Dr. Shree Prakash Tiwari IIT-Jodhpur, India	PV01 Prof. Hameed A Naseem University of Arkansas, Fayetteville, AR, USA
1030-1100	3N13 Prof. Nandita Dasgupta IIT-Madras, India	QC06 Dr. Madhu Thalakulam IISER-Thiruvananthapuram, Kerala, India	C15&C16	FE06 Dr. Kris Krishnamurthy Executive Advisor, Technology & Business, Penfield, NY, USA	PV02 Dr. Sushil Kumar NPL, Delhi, India
1100-1130 Tea					
1130-1220 Plenary Talk 3 : Prof. Helge Weman, Norwegian University of S&T, Norway					
1230-1300	3N14 Dr. R. Muralidharan IISc-Bangalore, India	QC07 Prof. C R Selvakumar University of Waterloo, Ontario, Canada	SN05 Prof. T K Bhattacharya IIT-Kharagpur, India	FE07 Prof. Y N Mohapatra IIT-Kanpur, India	PV03 Prof. Silke H. Christiansen Helmholtz Zentrum Berlin (HZB), Germany
1300-1330	3N15 Dr. Seema Vinayak SSPL, Delhi, India	QC08 Dr. David Williams Hitachi Cambridge Laboratory, UK	C17&C18	FE08 Prof. Praveen C Ramamurthy IISc-Bangalore, India	C19&C20
1330-1430 Lunch					
1430-1500	3N16 Dr. Tarun Sharma RRCAT, Indore, India	QC09 Prof. Bhaskaran Muralidharan IIT Bombay, Powai, Mumbai, India	OE10 Dr. Sudha Mokkalapati Cardiff University, UK	2D08 Prof. Deok-kee Kim Sejong University, Seoul, South Korea	PV04 Prof. U P Singh KIIT-Bhubneshwar, India
1500-1530	CS04 Dr. Renu Tyagi SSPL, Delhi, India	C21&C22	OE11 Dr. Vishnu Gopal IDST, Delhi, India	2D09 Dr. Sandip Ghosh TIFR-Mumbai, India	PV05 Prof. S Sundar Kumar Iyer IIT-Kanpur, India
1530-1600	CS05 Dr. A A Naik GAETEC, Hyderabad, India	VT09 Prof. Mridula Gupta DU South Campus, India	OE12 Dr. Alok Jain SSPL, Delhi, India	2D10 Dr. Ashok Srivastava Louisiana State University, Louisiana, USA	C23&C24
1600-1630	C25&C26	C27&C28	C29&C30	2D11 Dr. Rakesh Joshi University of New South Wales, Australia	C31&C32
1630-1700 Tea					
1700-1750 Plenary Talk 4 : Prof. Sven Rogge, University of New South Wales, Australia					
1800-2000 Poster Session-II/Industry Session					
2000- Dinner					