



IWPSD 2021
 Indian Institute of Technology, New Delhi, India
 14 - 17 December, 2021



Symposium- Emerging Memory and Logic Devices (HALL 4)

DAY 3 (D3) (16th December 2021/Thursday)

9:30-11:15 Plenary Session - Hall 1 (Common for all symposia)		
Session-1 (Morning)		
Time (IST)	Speaker	Title
11:15 – 12:00	Jian Chen (Stanford University)	EM-SKN-1: NAND 2D to 3D: Challenges, Potentials and the Lasting Impact to Modern Life
12:00 – 12:30	Rashmi Jha (University of Cincinnati, USA)	EM-I-1: Challenges and Opportunities for 2T and 3T Resistive Random Access Memories for Storage and Neuromorphic Applications
12:30 – 13:00	Mario Lanza (KAUST, Saudi Arabia)	EM-I-2: Integrated circuits made of 2D materials
LUNCH BREAK (13:00 – 14:00)		
Session-2 (Afternoon)		
Time (IST)	Speaker	Title
14:00 – 14:30	Yang Chai (Hong Kong Polytechnic University)	EM-I-3: Bio-inspired in-sensor visual adaptation for accurate perception
14:30 – 15:00	Udayan Ganguly (IIT Bombay)	EM-I-4: Neurons and Synapses: RRAM based Neuromorphic Engineering
15:00 – 15:30	Brajesh Kaushik (IIT Roorkee)	EM-I-5: Spin Based Multi-Level Cells for High Density Memories
15:30 – 16:00	Merlyne De Souza (University of Sheffield)	EM-I-6: Steep switching mechanisms in a Ferroelectric and a Solid Electrolyte FET
16:00 – 16:30	Shaibal Mukherjee (IIT Indore)	EM-I-11: CMOS-compatible and Low Variability Memristive Crossbar Array for Medical Image Processing
16:00 – 16:15	Tea Break	

16:15 – 18:00	POSTER SESSION
END OF DAY 3	

DAY-4 (D4) (17th December 2021/Friday)

9:30-11:15	Plenary Session-Hall 1 (Common for all symposia)	
Session-1 (Morning)		
Time (IST)	Speaker	Title
11:15 – 11:45	Supriyo Bandyopadhyay (Virginia Commonwealth University)	EM-I-7: Straintronics: Switching multiferroic nanomagnets with strain for energy-efficient digital and analog information processing
11:45 – 12:15	Sreetosh Goswami (IISc Bangalore)	EM-I-8: Molecular building blocks for brain-inspired computing
12:15 – 12:45	Nihar Ranjan Mohapatra (IIT Gandhinagar)	EM-I-9: Nanosheet FETs for High Performance Computing
12:45-13:15	Alex James (DUK)	EM-I-10: Analog memristive computing for crossbar neural architectures
CONCLUDING SESSION (13:00 – 13:30)		