



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



Symposium- MEMS and NEMS Devices (HALL 6)

DAY 2 (D2) (15th December 2021/Wednesday)

9:30-11:15 Plenary Session-Hall 1 (Common for all symposia)		
Session-1 (Morning)		
Time (IST)	Speaker	Title
11:15 – 11:45	Yi Chiu (NCTU, Taiwan)	MN-I-1: CMOS-MEMS Differential Pressure Sensor with Low-Power On-Chip Readout Circuits
11:45 – 12:15	Enakshi Bhattacharya (IIT Madras)	MN-I-2: Processing challenges in fabricating a combined MEMS actuator and grating
12:15 – 12:30	Durgesh Banswar (IIT Delhi)	MN-O-1: Electric Field Induced Mechanical Modulation in Vanadium dioxide (VO ₂) Coated Micro-string Resonator
12:30 – 12:45	D. Sharma (IISc Bangalore)	MN-O-2: Gratings assisted optical Transduction of the mechanical resonator's vibrations and non-linearity measurements
LUNCH BREAK (13:00 – 14:00)		
Session-2 (Afternoon)		
Time (IST)	Speaker	Title
14:00 – 14:45	Eric Yeatman (Imperial College London)	MN-SKN-1: Alternative Powering Methods for Miniature Wireless Sensors
14:45 – 15:15	Siddharth Tallur (IIT Bombay)	MN-I-3: Microsystems for structural health monitoring
15:15 – 15:30	Dibyajyoti Mukherjee (IIT Delhi)	MN-O-3: Experimental Validation of chip-sized Magnetolectric WPT in IMDs
15:30 – 15:45	H K Verma (IISc)	MN-O-4: Ultra-sensitive self-sensing dynamic NEMS cantilever-based sensors for label-free Gas sensing

16:00 – 16:15	Tea Break
16:15 – 18:00	POSTER SESSION
18:00 – 19:00	Industry Session-Hall 1 (Common for all symposia)
END OF DAY-2	

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

Session-2 (Afternoon)		
Time	Speaker	Title
14:00 – 14:30	Nora Dempsey (Neel Institute, CNRS, France)	MN-I-4: High performance micro-magnets for MEMS applications
14:30 – 15:00	Prem Pal (IIT Hyderabad)	MN-I-5: Surface texturing of Si{100} in an extremely low concentration TMAH for solar cell applications
15:00 – 15:30	Pushparaj Singh (IIT Delhi)	MN-I-6: Bistable MEMS/NEMS based Switches for Rugged Embedded Applications: Non-Volatile Memory
15:30 – 15:45	Linnet Thomas (IISc Bangalore)	MN-O-5: Sub-miniaturized Piezoresistive Sensors for Invasive Pressure Measurements
15:45 – 16:00	Anweshan Chakrabarti (IIT Madras)	MN-O-6: Effect of plasma exposure on the electrical characteristics of Suspended Gate Field Effect Transistor
16:00 – 16:15	Tea Break	
16:15 – 18:00	POSTER SESSION	
END OF DAY-4		