

	Authors/Presenters	Faculty	University	Title	Excellence in Microsystems Fabrication	Award for Excellence in Microsystems CAD Tools and Design Methodology	Brian L Barge Microsystems Integration	Equipment Provided by Presenter	CAD Tools
1	Christopher Elash	Li Chen	University of Saskatchewan	Design and Testing of a Radiation-Tolerant RISC-V Microcontroller		1		120V AC plug	
4	Milad Seifnejad Haghighi	Behraad Bahreyni	Simon Fraser University	A Wafer-Level Dicing-Free Process with Direct PCB Mounting for MEMS Sensors	1				
5	Houssem Eddin Fehri	Marie-Josée Gour	Université de Sherbrooke	Development of Deep Cryogenic TSVs for 3D Integration of Superconducting Qubits	1				
6	Peyman Firoozy	Behraad Bahreyni	Simon Fraser University	A Low-Aspect-Ratio Inclined-Beam Design for Near-Zero Stiffness in MEMS Gravimeters		1			
7	Boris Bam Nges	Jean-Francois Bousquet	Dalhousie University	A Magnetic Induction Sea-Ice Communication Link for CTD Data Collection			1	AC mains: 120 V, 60 Hz. Outlets needed: 2 × grounded outlets. Estimated AC draw: Typical 150–200 W, max 350 W (during extended high-power transmit tests).	
8	Farzan Moosavi	Bilal Farooq	Toronto Metropolitan University	Quantum-Efficient Reinforcement Learning Solutions for Last-Mile On-Demand Delivery		1			
10	Hamid Sadrimanesh	Frederic Nabki / Yves Blaquière	École de technologie supérieure	On-ceramic Micro-Scale High-Voltage Breakdown MEMS-Based Acoustic Digital Isolator		1			Running video clip, COMSOL
11	Ben Cohen	Sudip Shekhar	University of British Columbia	Empowering Personalized Medicine with Microchip Biosensors For Women's Hormone Monitoring			1	Small power unit	
12	Abolfazl Vaheb	Dan Sameoto	University of Alberta	Durable Spin-Coated Fiberglass-Reinforced PDMS Molds for High-Fidelity Microstructuring of Polyolefins under Extreme Pressure and Temperature	1				

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13	Mustafa Kanchwala	Roman Genov	Univeristy of Toronto	A Reconfigurable Platform for Fast Prototyping of Implantable ASICs for Closed-Loop Neuromodulation Medical Devices			1	1.Power Supply – Keysight E36312A – Triple Output Programmable DC Power Supply (Heaviest equipment) 2.FPGA board #1 and Carrier card + Additional PCBs for the system 3.FPGA board #2 and Carrier card + Custom ASIC and its PCB 4.Power cords and extension cords 5.Some miscellaneous small components and adapters	
15	Elham Zohari	Paul Barclay	University of Alberta	Fabrication of Single-Crystal Diamond Optomechanical Cavities via Quasi-Isotropic Plasma Etching	1				
16	Omid Esmaeeli	Sudip Shekhar	University of British Columbia	Isolator-Free Laser Operation Enabled by Chip-Scale Reflections			1	3 pieces of equipment: 100 W – 300 W one optical spectrum analyzer, one source/measure unit, and one laser control unit	
17	Muhammed Abdelfatah	Ahmad Hassan	Polytechnique Montréal	Automated Analog and Mixed-Signal Circuit Design Using Artificial Intelligence-Guided Simulation-Based Optimization		1			Cadence
18	Milad Asgarpour Khansary	Seyed Ali Ghoreishi Madiseh	University of British Columbia	Hybridization of Minerals Drying Operations via Microwave Systems: Experimental and Numerical Feasibility Analysis			1		COMSOL
21	Bahram Jafari Akinabad	Shahriar Mirabbasi	University of British Columbia	A Phase-Delay Self-Injection LC Oscillator in 65-nm CMOS for Low Flicker Noise Signal Generation	1				
22	Samira Mehrabi	Nazir Kherani	University of Toronto	Metasurface-Engineered Light Trapping for Efficient Photoelectrocatalytic Water Splitting		1			
23	Hao Yang	Roman Genov	University of Toronto	Software-Defined Image Sensor with Motion-Adaptive Spatially Varying Exposure Rate		1		standard 110 V AC wall outlet or 5 V DC USB-A power input	

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24	Ata Khorami	Sudip Shekhar	University of British Columbia	Integrated Circuit Generator Engine		1		Yes	
25	Bahareh Shirmohammadi	Shahriar Mirabbasi	University of British Columbia	A Cubic Spline-Based Scheme for Signal Sampling and Reconstruction for Power-Efficient Data Acquisition	1				Cadence Virtuoso
26	Hassan Talaeian	Shahriar Mirabbasi	University of British Columbia	A fully on-chip Frequency Lock Loop (FLL) based chirp generator for FMCW radar applications	1				
27	Jonas Welsch	Edmond Cretu	University of British Columbia	From MEMS Design to Inline Integration: Polymer CMUTs for Real-Time Monitoring of Ultrasonic Welding in Composites			1	Normal plug for laptop	
29	Dante Prins	Sudip Shekhar	University of British Columbia	DFB Laser Stabilization Against On-Chip Parasitic Reflections Using Controlled Feedback from a Silicon Ring Resonator			1		
30	Fatemeh Niknahad	Mohammad Zarifi	University of British Columbia	Wireless Real Time Sweat Secretion Monitoring using Waveguide-based Wearable Microfluidic-channel Sensor			1		
32	Zahra Sarpanah Sourkouhi	Mohammad Zarifi	University of British Columbia	Paper-Based RFID Antennas Towards Sustainable IOT	1				
33	Daniel Reddy	Richard Oleschuk	Queen's University	Spot on: A green(er) approach to dried matrix spots for analysis with liquid microjunction – surface sampling probe – mass spectrometry aided by computer vision	1				
34	Syediman Taghavi	Lukas Chrostowski	University of British Columbia	DC-to-GHz Modulators in Ferroelectric Nematic Liquid Crystal-on-Si Platforms			1		