[IEEE IFETC2019] August 11-14, 2019 Detailed Program

Sunday, August 11th 2019

15:00 - 18:00 Conference registration (Harbour Centre Concourse)

		Monday, August 12th 201			
7:30	Conference registration (Harbour Centre Concourse)				
8:30	Opening remarks (Fletcher Challenge Theatre)				
8:45 - 9:45	Plenary Talk #1 (Fletcher Challenge Theatre) Porf. John A. Rogers: "Flexible Electronics in Digital Medicine"				
9:45 - 10:10	Coffee Break (Harbour Centre Concourse)				
10:10 - 11:10	Plenary Talk #2 (Fletcher Challenge Theatre) Porf. Arokia Nathan: "Integration Strategies for Ultra Low Power Flexible Electronics"				
	Room 140	00 & 1410	Room 14	20 & 1430	
11:10-12:10	Tutorial #1: Prof. Peyman Servati, UBC Canada, "Stretchable electronic skin and smart textile for health and				
	medical applications"		flexible image sensors"		
12:10 - 1:15	Room 1400	Room 1410	Room 1420	Room 1430	
	Session 1.1 Flexible Sensors and Smart IoTs I, Chair: Prof. Byron Gates 1:15-1:40 [Invited] Printed Electronic Sensor Applications: From Simple to Extreme Environments, Prof. Harish Subbaraman	Session 1.2 Flexible Sensors and Smart IoTs II, Chair: Prof. Irene Goldthorpe 1:15-1:40 [Invited] Fully Printable and Autonomously Powered Electronic Nodes for the Internet of Everything, Prof. Paul R. Berger	Session 2.1 Flexible Thin Film Circuits I, Chair: Prof Bonnie Gray 1:15-1:40 [Invited] Low Power Organic Interface Electronics, Prof. Xiaojun Guo	Session 2.2 Flexible Thin Film Circuits II, Chair: Dr. Ta- Ya Chu 1:15-1:40 [Invited] Essential requirements for the commercialization of organic printed transistors and integrated circuits, Prof. Sungjune Jung	
	1:40-2:05 [Invited] Flexible Printed Acoustic Sensors . Prof. Sharmistha Bhadra	1:40-2:05 [Invited] 3D-printed Flexible Chemical Sensing Solutions for Internet-of-Things, Prof. Woo Soo Kim	1:40-2:05 [Invited] Interface abd sub-gap states density extraction model from the field effect Characteristics of amorphous thin film transistors, Prof. Ling Li	1:40-2:05 [Invited] Passive Sensing with Embroidered Electronics, Prof. Terry Ye	
	2:05-2:20 1570548371 Fall Detection with Neural Networks, Gaojing Wang	2:05-2:20 1570544114 New Ion-selective Sensing Platform: Additively Manufactured Flexible Digital Microfluidic System, Xin Min	Using NdTiON as Gate Dielectric, Y. X. Ma	2:05-2:20 1570539640 Flexible Printed Top-Contact Organic Thin-Film Transistors, Yongwoo Lee	
1:15 - 3:20 PM	2:20-2:35 15:70539537 A Fully Inkjet-Printed Flexible Microwave Multiresonator Circuit for Concentration Measurements of Liquid Solutions, Zonghao Li 2:35-2:50 15:70548948 Development of Capacitive Wearable Patches and Bands for Data Fusion in Complex Physical Activities, Akanksha Rohit	2:20-2:35 1570547217 3D Printed Disposable Wireless Ion Selective Sensing Platform, Taell Kim 2:35-2:50 1570539225 Peptide-functionalized Single- walled Carbon Nanotube Field-effect Transistors for Monitoring Volatile Organic Compounds in Breath, Daniel Sim	2:20-2:35 1570541656 Island Thickness Effects for Stretchable InGaZnO Thin Film Transistors on Wavy- Dimensional Elastomer Substrate, Hye-Won Jang 2:35-2:50 1570548946 2-Yolt Solution-Processed, Indium Oxide (In203) Thin Film Transistors on Flexible Kapton, Sagar R. Bhalerao	2:20-2:35 1570548956 Heterogeneous Integration of InGaN Micro-LEDs with a:sl TFT Arrays on Flexible Substrates, Mohsen Asad 2:35-2:50 1570549003 Sigma-Delta Modulation for SMES-Based DVR, Pooya Taheri	
	2:50-3:05 1570539735 Smart Contact Lenses Integrated on Soft Contact Lenses for Wireless Ocular Diagnostics, Joohee Kim 3:05-3:20 1570546938 Characterization of Rigid and Flexible 3D Printed Planar Antennas, T. Searles	2:50-3:05 15/05/43/65 Smart Thread Based pH Sensitive Antimicrobial Wound Dressing, Lucas R. Karperien 3:05-3:20 15/05/41307 Flexible BaTiO3-PDMS Composite Thin Films for Sensing Applications, Kiran Kumar Sappatii	2:50-3:05 1570548947 Characteristics of Single Crystal MoS2 TFTs Using Inkjet-Printed Electrodes, M. Nouri 3:05-3:20 1570548322 Thin-film Transistor Electrical Performance of Hybrid MoS2-P3HT Semiconductor Layers, Naeun Kim	2:50-3:05 1570537461 Flexible Circuits Based on Aluminum Conductor and Nonwoven Substrate, Xiaotiar Li 3:05-3:20 1570547342 3D Printed Flexible Integrated LC Circuits, C. Bao	
3:20 - 3:45 PM		Coffee Break (Harbo	our Centre Concourse)		
	Room 1400	Room 1410	Room 1420	Room 1430	
	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung	Room 1410 Session 3.2 Material Innovations in Flexible Electronics II, Chair: Prof. Paul R.Berger		Room 1430 Session 1.4 Flexible Sensors and Smart IoTs IV, Chair: Dr. Patrick Malenfant	
	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung	Session 3.2 Material Innovations in Flexible	Room 1420 Session 1.3 Flexible Sensors and Smart IoTs III, Chair:	Session 1.4 Flexible Sensors and Smart IoTs IV, Chair:	
	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung 3:45-4:10 [Invited] Printable Silicon for a novel RFID system approach on flexible substrates, Prof. Niels	Session 3.2 Material Innovations in Flexible Electronics II, Chair: Prof. Paul R. Berger 345-4:10 [Invited] Siloxane Based Flexible Hard Coating on Cover Window Plastic Film for Implementation of Reliable Foldable Smartphone, Prof	Room 1420 Session 1.3 Flexible Sensors and Smart IoTs III, Chair: Prof. Xiaojun Guo 3:45-4:10 [Invited] Biomarker Sensor Development for	Session 1.4 Flexible Sensors and Smart IoTs IV, Chair: Dr. Patrick Malenfant 3:45-4:10 [Invited] Transforming Soft Bioelectronics	
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3:45 - 5:45 PM	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung 3:45-4:10 [Invited] Printable Silicon for a novel RFID system approach on flexible substrates, Prof. Niels Benson 4:10-4:35 [Invited] Silver nanowires for printable, flexible electronics: transparent electrodes and e- textiles, Prof. Irene Goldthorpe 4:35-4:50 1570548376 Nanowoven Electrospun	Session 3.2 Material Innovations in Flexible Electronics II, Chair: Prof. Paul R. Berger 3.45.4-10 [Invited] Siloxane Based Flexible Hard Coating on Cover Window Plastic Film for Implementation of Reliable Foldable Smartphone, Prof Byeong-Soo Bae 4.10-4:35 [Invited] Tuning the Surface Chemistry of Materials through the Alcohol Condensation Reaction, Prof. Byron Gates 4.35-4:50 1570540637 Photodetector Based on All- inorganic Perovskite Quantum Dots with Ring Electrode	Room 1420 Session 1.3 Flexible Sensors and Smart IoTs III, Chair: Prof. Xiaojun Guo 3:45-4:10 [Invited] Biomarker Sensor Development for Human Performance and Protection, Dr. Steve S. Kim 4:10-4:35 [Invited] High-Resolution Printing Methods for Flexible Sensor Platforms, Prof Jang-Ung Park 4:35-4:50 1570549315 A Low-Cost Chalcogenide Ion Sensitive Electrode for Copper Sensing with an LoD < 20	Session 1.4 Flexible Sensors and Smart IoTs IV, Chair: Dr. Patrick Malenfant 34.54-410 [Invited] Transforming Soft Bioelectronics with Nanomeshed Material Components, Prof. Hui Fang 4:10-4:35 [Invited] Integrated microfluidic and electronic platforms for flexible and wearable devices and systems, Prof Bonnie Gray 4:35-4:50 1570547467 Bending and Frequency	
3:45 - 5:45 PM	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung 3:45-4:10 [Invited] Printable Silicon for a novel RFID system approach on flexible substrates, Prof. Niels Benson 4:10-4:35 [Invited] Silver nanowires for printable, flexible electronics: transparent electrodes and e- textiles, Prof. Irene Goldthorpe 4:35-4:50 1570548376 Nanowoven Electrospun Nanofibers, Mikhail Kanygin 4:50-5:05 1570548390 Laser Scribed Carbon Layers:	Session 3.2 Material Innovations in Flexible Electronics II, Chair: Prof. Paul R.Berger 3.45-4.10 [Invited] Siloxane Based Flexible Hard Coating on Cover Window Plastic Film for Implementation of Reliable Foldable Smartphone, Prof Byeong-Soo Bae 4.10-4.35 [Invited] Tuning the Surface Chemistry of Materials through the Alcohol Condensation Reaction, Prof. Byron Gates 4.35-4.50 1570540637 Photodetector Based on All- inorganic Perovskite Quantum Dots with Ring Electrode Qing Li 4.50-5.05 1570549075 Resistive Switching Behaviour of PVP/HIOx Hybrid RRAM on Flexible Substrate, Ishan	Room 1420 Session 1.3 Flexible Sensors and Smart IoTs III, Chair: Prof. Xiaojun Guo 3:45-4:10 [Invited] Biomarker Sensor Development for Human Performance and Protection, Dr. Steve S. Kim 4:10-4:35 [Invited] High-Resolution Printing Methods for Flexible Sensor Platforms, Prof Jang-Ung Park 4:35-4:50 1570549315 A Low-Cost Chalcogenide Ion Sensitive Electrode for Copper Sensing with an LoD < 20 Ppb, Priya Vinayak 4:50-5:05 1570549182 Synthesis of Monodisperse Ag2Se Quantum Dots with Elevated Precursor Reactivity for the Application in near Infrared	Session 1.4 Flexible Sensors and Smart IoTs IV, Chair: Dr. Patrick Malenfant 3.45.4-10 [Invited] Transforming Soft Bioelectronics with Nanomeshed Material Components, Prof. Hui Fang 4:10-4:35 [Invited] Integrated microfluidic and electronic platforms for flexible and wearable devices and systems, Prof Bonnie Gray 4:35-4:50 1570547467 Bending and Frequency Response of Piezo-sensor, C. Rokaya 4:50-5:05 1570548161 All-solid dual-pH Electrolyte Electrochemical Capacitor, Haoran Wu 5:05-5:20 1570549816 Signal Quality Analysis of	
3:45 - 5:45 PM	Session 3.1 Material Innovations in Flexible Electronics I, Chair: Prof. Sungjune Jung 3:45-4:10 [Invited] Printable Silicon for a novel RFID system approach on flexible substrates, Prof. Niels Benson 4:10-4:35 [Invited] Silver nanowires for printable, flexible electronics: transparent electrodes and e- textiles, Prof. Irene Goldthorpe 4:35-4:50 1570548376 Nanowoven Electrospun Nanofibers, Mikhail Kanygin 4:50-5:05 1570548390 Laser Scribed Carbon Layers: Process Optimization & Sensor Applications, Tianyi Cai 5:05-5:20 1570548417 Modeling the Mechanical Performance of Foldable Display Under Cyclic Loading,	Session 3.2 Material Innovations in Flexible Electronics II, Chair: Prof. Paul R. Berger 3.45.4-10 [Invited] Siloxane Based Flexible Hard Coating on Cover Window Plastic Film for Implementation of Reliable Foldable Smartphone, Prof Byeong-Soo Bae 4.10-4:35 [Invited] Tuning the Surface Chemistry of Materials through the Alcohol Condensation Reaction, Prof. Byron Gates 4:35-4:50 1570540637 Photodetector Based on All- inorganic Perovskite Quantum Dots with Ring Electrode Qing Li 4:50-5:05 1570549075 Resistive Switching Behaviour of PVP/HfOx Hybrid RRAM on Flexible Substrate, Ishan Varun 5:05-5:20 1570541372 Effect of Mechanical Cycling on the Magnetic Properties of Permalloy Films Electroplated on Stretchable Substrate, Connor S.	Room 1420 Session 1.3 Flexible Sensors and Smart IoTs III, Chair: Prof. Xiaojun Guo 3.45-4:10 [Invited] Biomarker Sensor Development for Human Performance and Protection, Dr. Steve S. Kim 4:10-4:35 [Invited] High-Resolution Printing Methods for Flexible Sensor Platforms, Prof Jang-Ung Park 4:35-4:50 1570549315 A Low-Cost Chalcogenide Ion Sensitive Electrode for Copper Sensing with an LoD < 20 Ppb, Priya Vinayak 4:50-5:05 1570549182 Synthesis of Monodisperse Ag2Se Quantum Dots with Elevated Precursor Reactivity for the Application in near Infrared Photodetectors, Jianying Ouyang 5:05-5:20 1570549274 Thin Film GaAs Devices on Epi-Ready Metal Substrates for Flexible Photovoltaics and Flexible Electronics, V. Selvamanickam	Session 1.4 Flexible Sensors and Smart IoTs IV, Chair: Dr. Patrick Malenfant 3.45-4:10 [Invited] Transforming Soft Bioelectronics with Nanomeshed Material Components, Prof. Hui Fang 4:10-4:35 [Invited] Integrated microfluidic and electronic platforms for flexible and wearable devices and systems, Prof Bonnie Gray 4:35-4:50 1570547467 Bending and Frequency Response of Piezo-sensor, C. Rokaya 4:50-5:05 1570548161 All-solid dual-pH Electrolyte Electrochemical Capacitor, Haoran Wu 5:05-5:20 1570549816 Signal Quality Analysis of Electrocardiogram Textile Electrodes for Smart Apparel	

		Tuesday, August 13th 201	9
8:00 - 8:30	Coffee Break (Harbour Centre Concourse)		
8:30 - 9:30	Plenary Talk #3 (Fletcher Challenge Theatre) Dr. Jupiter Hu, Deputy General Director at ITRI, "Roll-to-roll processes for flexible electronics"		
	Room 1400	Room 1410	Room 1420 &1430
	Session 3.3 Material Innovations in Flexible Electronics III, Chair: Prof. Keryn Lian	Session 3.4 Material Innovations in Flexible Electronics IV, Chair: Prof. Fabio Cicoira	Special Invited Sesssion #1: Emerging Materials and Devices for Advanced Soft Implantable Systems Chair: Prof. Hui Fang, Northeastern University, USA
	9:30-9:55 [invited] A Study on the Dynamic Bending Reliability of Chip-in-Flex and -Fabrics(CIFs) Packages using Anisotropic Conductive Films (ACFs) Materials for Flexible Electronic Applications, Prof. Kyung-Wook Paik	9:30-9:55 [Invited] Responsive Liquid Metals for Reconfigurable, Ultra-Stretchable, and Self-Healing Electronics, Dr. Christopher Tabor	9:30-9:55 Microelectrode Arrays for Large Scale Clinical Mapping: Electrochemical and Density Considerations, Prof. Shadi A. Dayeh
	9:55-10:20 [Invited] Light Management in Core-Shell Silicon Nanowire Solar Cells, Prof. Michael Adachi	9:55-10:20 [Invited] Strategies for Mechanically Reliable Thin-Film Flexible Electronics, Prof. Taek-Soo Kim	9:55-10:20 Flexible injectable probe for chronic and acute stress monitoring, Prof. Tae-il Kim
9:30 - 12:00 PM	10:20-10:35 1570539633 Technology Development for Direct-Printed Dual-Gate Organic TFT Circuit Fabrication with 3-D Integration, Jimin Kwon	10:20-10:35 1570547844 Collaborative Conception of a R2R Printed Testing Platform for Printed Electronics Standardization, Chloé Bois	10:20-10:45 Flexible, Hybrid Optoelectronic Implants for Neural Interfaces, Prof. Wen Li
	10:35-10:50 1570544514 TFT Adder Design on Flexible Substrate, Qing Li	10:35-10:50 1570548375 Transfer Characteristic of AlGaN/GaN Ridge HEMTs Used for Power Supply Circuits of Flexible Devices, Hitoshi Aoki	10:45-11:10 Flexible Microsystems for On-Body Sensing and Measuring Tissue Integrated Sensors, Prof. Michael A. Daniele
	10:50-11:05 1570549508 A Flexible Non-Enzymatic Electrochemical Glucose Sensor Using Cu Nanoparticle Graphene Fiber Laser-Induced Graphene Network Electrode, Taeheon Kim	10:50-11:05 1570548389 Minimizing Stiction of Microelectromechanical Systems (MEMS) Through Solution.Phase Surface Modification with Alcohols, Austin W.H. Lee	11:10-11:35 Sticker-like electronics (Sticktronics) for wearable biomedical devices, Prof. Chi Hwan Lee

	11:05-11:20 1570548972 Enhanced Hybrid Copper	11:05- 11:20 1570549968 Analysis and Design of high.K	11:35- 12:00 Multimaterial multifunctional fiber-based neural interfaces, Prof. Xiaoting Jia
		Material Nanowire Transistor for Improved	
	9.	Performance, Mohinder Bassi	
		11:20-11:35 1570549650 Pinhole-free MAPbI3	
	Flexible Organic Solar Cells Using Graphene Transparent	Perovskite Synthesis on PbICI Interphase	
		Under Excess Iodide Ions by Vapor-Assisted Solution	
		Process, H.Harun Arkaz	
12:00 - 1:15	Lunch		
1:15 - 2:15	Plenary Talk #4 (Fletcher Challenge Theatre) Dr. Meyya Meyyappan, "Printed Electronics: Equipment, Processing and Applications"		
	Room 140	00 & 1410	Room 1420 & 1430
2:15-3:15	Tutorial #3: Dr. Ta-ya Chu, National Research Cour	ncil Canada, "From Vacuum Deposition to Solution	Tutorial #4: Prof. Mark D. Poliks, Binghamton University, USA, "Materials, Printing and Processing of Flexibl
	Process in Orga		Hybrid Electronics"
3:00 - 3:30 PM			ur Centre Concourse)
	Room 140		Room 1420 & 1430
	Special Invited Sesssion #2: E-Textiles: Energy devices	, sensors, and their integration towards wearable	Special Invited Sesssion #3: Flexible Bio-medial Sensors/Electronics
	healthcare and soft robotics, Chair: Prof. Hyun-Joong	Chung, University of Alberta, Canada	Chair: Prof. Tae-il Kim, Sungkyunkwan University, South Korea
	3:30-3:55 System Design Considerations for Textile-Base	d Electronics. Prof. Jess Jur	3:30-3:55 Unconventional Bio-integrated Electronics towards Human-Machine Interface, Department of
		•	Electrical and Electronic Engineering, Prof. Ki Jun Yu
	3:55-4:20 Super-elastic multi-material fibers for healthco	are, advanced textiles and soft robotics, Prof. Fabien	3:55-4:20 Imperceptible sensor foils for soft electronics and machines, Prof. Martin Kaltenbrunner
	Sorin		
	4:20-4:45 A Solution for Wearable Electronics: Electroles	s Nickel-Immersion Gold Coatings for Stretchable	4:20-4:45 Soft Sensing Devices and Technologies for Wearables, Robotics and Prosthetics Systems, Prof. Benjami
3:30 - 6:00 PM	Conductors and e-Textiles, Prof. Tricia Breen Carmichael		Tee
	4:45-5:10 Electronic textile for skin-mountable biomedic	al device, Prof. Kyung-In Jang	4:45-5:10 Wearable and Implantable Devices 'On the Go', Prof. Canan Dagdeviren
	F.40 F.35 Farm annual base forward Dark Code	Manage	Edit For Data & Build of the lab and a face and a self-adition of the lab and a self-adition of
	5:10-5:35 Force myography: a step forward, Prof. Carlo Menon		5:10-5:35 Point-of-use flexible sensors for health and environmental applications: assessment of motor skills and chemical exposure, Prof. Tina Ng
	5:35-6:00 Elastomer/Textile Composites in Wearable Ele	ctronics and in Normothermic Ex-Vivo Organ Perfusion	5:35-6:00 Self-assembled flexible neural probes for stable neural activity recordings, Prof. Ying Fang
	Devices, Prof Hyun-Joong Chung		

	Wednesday, August 14th 2	019	
8:00 - 8:30	Coffee Break (Harbour Centre Concourse)		
8:30-9:30	Plenary Talk #5 (Fletcher Challenge Theatre) Dr. Ye Tao, "Printable Electronics and Its Role in the Development Power Autonomous Sensors"		
	Room 1400 & 1410	Room 1420 & 1430	
	Special Invited Session #4: Stretchable electronics and energy devices Chair: Prof. Pool See Lee, Nanyang Technical University, Singapore	Special Invited Sesssion #5: Flexible and Stretchable Electronics Technologies and Sensors Chair: Prof. Matti Mäntysalo, Tampere University of Technology, Finland	
	9:30-9:55 Adding a new sensing dimension to soft sensors: from the skin to below the skin, Prof. Sheng Xu	9:30-9:55 Stretchable free-form circuits based on conventional electronic assembly and polymer processing technologies, Prof. Jan Vanfleteren	
	9:55-10:20 Recent Progress on Highly Compliant Polymer Electronic and Electromechanically Responsive Materials and Device Explorations, Prof. Qibing Pei	9:55-10:20 Flexible Printed Organic Electronics and their IoT Sensor Applications, Prof. Shizuo Tokito, Research Centor for Organic Electronics	
9:30-12PM	10:20-10:45 Powered Platform for All-stretchable Electronics, Prof. Unyong Jeong	10:20-10:45 Facile Fabrication of Highly Soft Tactile Sensor based on Porous Sponge with Geometry Effect on Sensing Characteristics, Prof. Geng Yang	
	10:45-11:10 Flexible, stretchable and healable electronics, Prof. Fabio Cicoira	10:45-11:10 Printed and Flexible NTC Thermistors Suitable for On-Skin Temperature Monitoring, Dr. Terho Kololuoma	
	11:10-11:35 Fully Rubbery Stretchable Electronics and Integrated Devices, Prof. Cunjiang Yu	11:10-11:35 Performance of fully printed ultra-thin inverter for on-skin biosignal measurements, Mr. Mika-Matt Laurila	
	11:35- 12:00 Stretchable and deformable materials and devices for wearable technology, Prof Pool See Lee	11:35-12:00 Printed Elastronics for Wearable Biomedical Applications. Prof. Matti Mantysalo	
12:00-1 PM	Lu	inch	
1:00 - 2:00	Plenary Talk #6 (Fletcher Challenge Theatre) Prof. Leena Ukkonen, "Reliability	y of wireless communication and power transfer to small biomedical implants"	
2:00 - 2:30 PM		our Centre Concourse)	
	Room 1400 & 1410	Room 1420 & 1430	
	Special Invited Sesssion #6: From the Laboratory to the Manufacturing Floor: Scalable Processes for Flexible Electronics Chairs: Dr. Scott Miller, NextFlex and Dr. Benjamin Leever, AFRL, USA	Special Invited Session #7: Material & Process Innovations in Flexible Printed Electronics Chairs: Prof. Jie Zhang, Jiangnan University, China and Prof. Gyoujin Cho	
	2:30-2:55 Next Generation Process for Electronics, Dr. Jaons Veres	2:30-2:55 Development of flexible tactile sensor using hybrid manufacturing technologies, Prof. Dr. Toshihide Kamata	
	2:30-2:55 Next Generation Process for Electronics, Dr. Jaons Veres 2:55-3:20 Materials & Multi-Scale Patterning Approaches to Inspire Printed Electronics Solutions, Dr. Adam Cook	Kamata 2:55-3:20 The Impact of polymer electrolytes on the performace and longevity of solid flexible supercapacitors, Prof. Keryn Lian	
2:30 - 5:00 PM		Kamata 2:55-3:20 The Impact of polymer electrolytes on the performace and longevity of solid flexible supercapacitors,	
2:30 - 5:00 PM	2:55-3:20 Materials & Multi-Scale Patterning Approaches to Inspire Printed Electronics Solutions, Dr. Adam Cook 3:20-3:45 Printed Hyrbid Electronics: From Printed Interconnects to Multi-Layer Printed Circuitization and 3D	Kamata 2:55-3:20 The Impact of polymer electrolytes on the performace and longevity of solid flexible supercapacitors, Prof. Keryn Lian 3:20-3:45 Nanomaterials for printed electronics", Dr. Patrick Malenfant 3:45-4:10 Fabricating high performance FACsPb(I/Br)3 perovskite films through printing tehnologies, Prof. Frank Peng	
2:30 - 5:00 PM	2:55-3:20 Materials & Multi-Scale Patterning Approaches to Inspire Printed Electronics Solutions, Dr. Adam Cook 3:20-3:45 Printed Hyrbid Electronics: From Printed Interconnects to Multi-Layer Printed Circuitization and 3D Hybrid Electronics, Dr. Daniel Hines	Kamata 2:55-3:20 The Impact of polymer electrolytes on the performace and longevity of solid flexible supercapacitors, Prof. Keryn Lian 3:20-3:45 Nanomaterials for printed electronics", Dr. Patrick Malenfant 3:45-4:10 Fabricating high performance FACsPb(I/Br)3 perovskite films through printing tehnologies, Prof. Frank	
2:30 - 5:00 PM	2:55-3:20 Materials & Multi-Scale Patterning Approaches to Inspire Printed Electronics Solutions, Dr. Adam Cook 3:20-3:45 Printed Hyrbid Electronics: From Printed Interconnects to Multi-Layer Printed Circuitization and 3D Hybrid Electronics, Dr. Daniel Hines 3:45-4:10 Material Challenges for Printed Electronics in the Microwave Domain, Prof. Craig Armiento 4:10-4:35 Essential Technologies for the Future of Scalable FHE and Energy Device Additive Manufacturing, Prof.	Kamata 2:55-3:20 The Impact of polymer electrolytes on the performace and longevity of solid flexible supercapacitors, Prof. Keryn Lian 3:20-3:45 Nanomaterials for printed electronics", Dr. Patrick Malenfant 3:45-4:10 Fabricating high performance FACsPb(I/Br)3 perovskite films through printing tehnologies, Prof. Frank Peng	

List of Poster papers	
1570538580 Flexible	Printed Capacitive Force Sensors Based Beehive Weight Monitoring System
1570539633 Technolo	ogy Development for Direct-Printed Dual-Gate Organic TFT Circuit Fabrication with 3-D Integration
1570539640 Flexible	Printed Top-Contact Organic Thin-Film Transistors
1570540637 Photode	tector Based on All-inorganic Perovskite Quantum Dots with Ring Electrode
1570548375 Transfer	Characteristic of AlGaN/GaN Ridge HEMTs Used for Power Supply Circuits of Flexible Devices
1570548417 Modelin	g the Mechanical Performance of Foldable Display Under Cyclic Loading
1570548946 2-Volt Sc	olution-Processed, Indium Oxide (In2O3) Thin Film Transistors on Flexible Kapton
1570549003 Sigma-D	elta Modulation for SMES-Based DVR
1570550277 Keyboard	d Mouse Glove with Bluetooth Canabilities for the Physically Impaired