

Time	Wednesday Oct 9	Time	Thursday Oct 10	Time	Friday Oct 11
0 00 0 45	Welcome (Laurie Calvet & Gaia Tomasello - pitch	0 00 0 55		0.00.40.00	Modeling and Simulations for Organic Neuromorphic Computing
8:30-8:45	for papers)	8:30-8:55	Ian Forbes (IOP): How to get published	8:30-10:00	(chair: Lina Kadura)
8:45-10:15	Devices for Organic Neuromorphic Computing (Chair: Hans Kleemann)	8:55-10:30	Systems, Hardware and Modeling (chair: Simone Fabiano)	8:30-8:55	Benjamin Iniguez: Low frequency noise physics and modeling in Organic Thin Film Transistors
8:45-9:10	Laurie Calvet: Organic electronics for probabilistic computi	ng 8:55-9:20	Sylvain Barbay, " Ultrafast spike-based digits recognition with micropillar lasers" (online)	8:55-9:20	Ghader Darbandy: Simulation and Compact Modeling of OECTs
9:10-9:35	Simone Fabiano: Organic Electrochemical Neurons as Primitives for Neuromorphic Perception	9:20-9:45	Yusheng Chen: Towards Artificial Brain: Neuromorphic Memory Optocoupler Module	9:20-9:35	Christian Matthus "Contrary approaches for SPICE model implementation of OECTs for analog circuit design" (TUD student not Hans)
				9:35-11:50 -with pa	Organic Devices (chair: Scott Keene)
9:35-10:00	Nicolas Lobato-Dauzier: Neural coding of temperature with a DNA-based spiking chemical neuron	9:45-10:00	Amir Handelman "Organic optical waveguides and organic optical logic gates for neuromorphic computing"	9:35-10:00	Shunsuke Yamamoto: Operation speed control of OECT-based neuromorphic devices
10:00-10:15	Richard Kantelberg: Reservoir computing and reinforcement learning using organic semiconducting fiber networks	10:00-10:15	Yazhou Wang: An Ion-tunable Optogenetics-inspired Synapse based on the Single-component N-type Mixed Conductor	10:00-10:30	Pause
10:15-10:45	Pause	10:15-10:30	Laura Teuerle: Using UV light to shift the Threshold Voltage in Organic Electrochemical Transistors	10:30-11:00	Interlude: Gaia Tomasello (Wiley): The use of Generative Artificial Intelligence tools in scientific publishing with Wiley (10 min questions)
10:45-12:35	Organic Neuromorphic Sensors (Chair: Olivier Bardagot)				
10:45-11:10	Fabrizio Torricelli: Organic Artificial Neurons for Neuromorphic Biosensing	10:30-11:00	Pause	11:00-11:25	Hans Kleeman: Integrated Top-Gate Organic Electrochemical Transistor - A scalable OECT Architecture for Efficient Circuit Design
		11:00-12:40	Organic neuromorphic devices for neural applications (chair: Fabrizio Torricelli)		
11:10-11:35	Sébastien Pecqueur: Transience and Disorder of Organic Semiconductors for Future-Emerging Sensing	11:00-11:25	Francesca Santori: Neuromorphic vs. neural probes: where are we standing?	11:25-11:50	Giovanni Ligorio: Two terminal neuromorphic devices based on mixed ionic electronic polymers
11:35-11:50	Robbert Huisman: Soft Robots and Neuromorphic Circuits - Utilizing Reinforcement learning to move towards all-embracing intelligence	11:25-11:50	Alexander Boys: Bioelectronic Devices for Dispersed Neural Recording	11:50-12:30	Wrap-up, prize awarding ceremony, group photo(?)
11:50-12:05	Kevin Lengefeld: Organic neuromorphic electrodes for bioelectronic applications	11:50-12:15	Viviana Rincón Montes: Advancing bidirectional visual prosthesis: in vitro and cadaveric validation of intraretinal implant		
12:05-12:20	Pei Zhang: Liquid crystal elastomers as trainable artificial muscles	12:15-12:40	Esma Ismailova: Organic Bioelectronics for sustainable biomonitoring: from the fabrication to the heath monitoring		
12:20-12:30	Ian Forbes (IOP): Pitch neuromorphic computing				
12:35-14:00	Lunch	12:40-14:00	Lunch	12:30-14:00	Lunch
14:00-16:00	Organic Devices and Hardware (chair: Francesca Santori)	14:00-16:00	Material Design for Neuromorphic Devices and Neural Networks (chair: Giovanni Ligorio)	14:00-18:00	BAYFLEX MEETING (BAYFLEX Members only
14:00:14:25	Yoeri van de Burgt: Local and autonomous learning with organic neuromorphic electronics	14:00:14:25	Scott Keene: Operando optical tracking of mixed ionic-electronic transport in conjugated polymers		
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14:25-14:50	Marco Fattori: Online in Hardware Multilayer Neural Network Training based on Progressive Backpropagation	14:25-14:50	Sahika Inal: Designing polymeric mixed conductors for photoelectrochemical transistors with a memory (online)				
14:50-15:15	Michele di Lauro: Neuromorphic Organic Devices in Translational Neuroscience: possibilities and open questions	14:50-15:15	Olivier Bardagot: Balancing Electroactive Backbone and Oligo(Ethylene Oxy) Side- Chain Content Improves Stability and Performance of Soluble PEDOT Copolymers in Organic Electrochemical Transistors	NEURON	Sponsored by: MORPHIC NEUROMORPHIC Computing and Engineering*		
15:15-15:30	Charles-Théophile Coen: Photopatternable solid- state OECTs for monolithic and advanced organic electronics	15:15-15:40	Shashi Paul: Creation of Internal Electric Field and Its use in Polymer Nano- composite Memory Devices	The second se	lopscience.org/nce		
15:30-15:45	Federico Rondelli: Ambipolar rGO-EGOT for Neuromorphic and Signal Processing Applications	15h40-15h55	Rafael Furlan de Oliveria: Organic Transistors based on Melanin/PEDOT:PSS Blends: Operational Characteristics and Neuromorphic Functions				
		16h-18h	Posters, Discussions around refreshments				
		17h30-18h30	NOD Steering committee				
16h-18h	Posters, Discussions around refreshments						
19h	Dinner	19h	Dinner				
			Destava				
			Posters				
Wei-Ting Ting, Esma Ismailov	P1 Tailoring Organic Electrochemical Transistor Geometry for Sustainable and High-Performance Wearable Bioelectronics	Benn Proper, Irene Kuling, Yoeri Van de Burgt	P7 Rigid, Soft, and Neuromorphic Robotics: A Multidisciplinary approach to Adaptive Gripping	Ermias Ielahun Teka, Ghader Darbandy, Hans Kleemann, Yeohoon Yoon, Benjamin Iniguez	P13 A Transient TCAD model of an Organic Electrochemical Transistor		
Nikita Prudnikov, Hans Kleemann, Karl Leo	; P2 OECT-based neuron circuit with a spike frequency adaptation unit	Gibaek Kim	P8 Complex Image Classification Using Micro-Laser Neurons Trained with a MLP- assisted Genetic Algorithm	Wentao Shan Padinhare Cholakkal Harikesh, Simone Fabiano, and Sahika Inal	P14 Organic Photo-Electrochemical Transistor (OPECT) based Spiking Neuron for Retinal Pathway and Neuromorphic System		
Vijay Basavaraj Banakar, Leonard. J. Prins	P3 Electrochemically triggered self-assembly within monolayer on gold nanoparticles	Yerin Kim	P9 Optimizing a Multi-Layer Perceptron Regression Model for Organic Thin Film Transistors	BAYFLEX consortium	P15 BAYFLEX poster		
Guilherme Selmi, et al	P4 Reduced Graphene Oxide Electrolytic Transistors under Multi-type Voltage Stimuli Towards Memory Applications	Sami El- Nakouzi	P10 Empirical Modeling of Organic Thin Film Transistors Using a Multi-layer Perceptron				
Amer ZAIBI, Benjamin Iniguez	P5 Advanced Techniques for Analyzing Source and Drain Resistances in Organic Thin Film Transistors	Patryk Golec	P11 Physical Compact Model for Multi- Modal Transistors		student		
Niels Burghoorn, Yoeri Van de Burgt	P6 Milestones in the Evolution of OECT Device Physics	Janic Tox:	P12 Development of PEDOT-Crown-based Organic Electrochemical Transistors towards lonotronic neurohybrid Synapses		postdoc	D WORKSHOP norphic Organic Device: tober 2024 Paris, Franc	
					contributed		
					invited Call for Papers		
					Submit to		