



**Program of the Conference**  
**Piccinni Theatre**  
**Corso Vittorio Emanuele II, 84,**  
**70122 - Bari BA – Apulia - Italy**

**Sunday, October, 1<sup>st</sup> 2023**

17:00-18:00	Registration
18:00-20:00	Welcome party - Museo Archeologico di Santa Scolastica

**Monday, October, 2<sup>nd</sup> 2023**

08:30-09:30	Opening Cerimony		
09:30-10:50	<b>Session 1A - Chair: Gianluca Maria Farinola</b>		
09:30-10:00	PL 1.1	Fabio Biscarini	Physico-Chemical insights on Organic Electronics Biosensors
10:00-10:20	KL 1.1	Guglielmo Lanzani	Intra Membrane Light actuators for Cell Photostimulation
10:20-10:35	Oral 1.1	Serpil Tekoglu	Conductive Biocomposites for Biomedical Applications
10:35-10:50	Oral 1.2	Fabrizio Torricelli	Organic Artificial Neurons for in-situ Bioelectronics
10:50-11:20	Coffee Break & Poster Preview		
11:20-13:00	<b>Session 1B - Chair: Georges Hadziioannou</b>		
11:20-11:40	KL 1.2	Roisin Owens	Bioelectronic tools to study the gut-brain axis
11:40-12:00	KL 1.3	Ifor Samuel	Approaches to Electrically Driven Organic Semiconductor Lasers
12:00-12:15	Oral 1.3	Hübler Arved	Print the Brain: Neuromorphic 3D-Circuits Based on Printed Organic Memristors

12:15-12:30	Oral 1.4	Adrica Kyndiah	Direct Recording of Action Potentials of Cardiomyocytes Through Printed Electrolyte-Gated Field-Effect Transistors
12:30-12:45	Oral 1.5	Maria Rosa Antognazza	Cell mechanotransduction driven by bio-organic optoelectronic devices
12:45-13:00	Oral 1.6	Giuseppe M. Paternò	Membrane Targeted Azobenzene Drives Optical Modulation of Bacterial Membrane Potential
13:00-14:00	Free Time		
14:00-15:55	<b>Session 1C - Chair: Gitti Frey</b>		
14:00-14:30	PL 1.2	Antonio Facchetti	Unconventional semiconductors and device architectures enabled by molecular design, doping and film morphology engineering
14:30-14:50	KL 1.4	Natalie Stingelin	Flexible Electronics: Challenges and Opportunities — a Materials Science View
14:50-15:10	KL 1.5	Christoph Brabec	Towards A Digital Twin for Organic and Perovskite Photovoltaics
15:10-15:25	Oral 1.7	Tianjun Liu	Chiral emission from halide perovskite semiconductors
15:25-15:40	Oral 1.8	Ning Li	Mastering morphology of non-fullerene acceptors towards long-term stable organic solar cells
15:40-15:55	Oral 1.9	Andrea Nitti	Organic Electronic Materials via Cascade Synthetic Approach based on One Pot DHA-Perkin Annulations
15:55-16:20	Coffee Break & Poster Preview		
16:20-17:50	<b>Session 1D - Chair: Roisin Owens</b>		
16:20-16:35	Oral 1.10	Guido Fratesi	Metal-TetraPhenyl-Porphyrins Adsorption on Atom-Thick and Bulk Magnetic Oxides
16:35-16:50	Oral 1.11	Marta Penconi	Paradigm Shift in Iridium Emitters Structure: Single Active Ligand in Heteroleptic Complexes for NIR Phosphorescent OLEDs
16:50-17:05	Oral 1.12	Chloè Dindault	Organic Photodetectors and their tolerance to impurities
17:05-17:20	Oral 1.13	Yunzhou Deng	Excitation “memory” accelerates transient electroluminescent response of quantum-dot lightemitting diodes
17:20-17:35	Oral 1.14	Silvia Colella	Chemical insight into perovskite inks behaviour and their implications in photovoltaic devices
17:35-17:50	Oral 1.15	Elena Molteni	Tuning the magnetic properties of antiferromagnetic oxides via adsorption of organic molecules: pentacene on NiO(001)
17:50-19:30	<b>Poster Session 1: tasting of Peroni brewery beers and Apulian taralli</b>		

## Tuesday, October, 3<sup>rd</sup> 2023

09:00-10:50	<b>Session 2A - Chair: Maurizio Prato</b>		
09:00-09:30	<b>PL 2.1</b>	Takao Someya	Electronic skins for robotics and wearables
09:30-09:50	<b>KL 2.1</b>	Annalisa Bonfiglio	Double-gated organic transistors for biomedical sensing applications: overall analysis and future perspectives.
09:50-10:05	Oral 2.1	Alessandro Luzio	Copper Phthalocyanine Based Electrochemical Transistors for Future Edible Electronics
10:05-10:20	Oral 2.2	Yan Wang	Permeable electronic skins for health monitoring
10:20-10:35	Oral 2.3	Francisco Molina-Lopez	2D/3D-Printed Flexible Organic Thermoelectrics for LowScale Energy Harvesting
10:35-10:50	Oral 2.4	Eyal Stein	Ambipolar Blend-based Organic Mixed Ionic-Electronic Conductors
10:50-11:20	Coffee Break & Poster Preview		
11:20-13:00	<b>Session 2B - Chair: Nuria Crivillers</b>		
11:20-11:40	<b>KL 2.2</b>	Fei Huang	High Performance n-Type Conjugated Polymers for Organic Electronics
11:40-12:00	<b>KL 2.3</b>	Iain McCulloch	Organic Semiconducting Polymer Photocatalysis for Water and CO <sub>2</sub> Reduction
12:00-12:15	Oral 2.5	Cloutet Eric	Synthesis of (semi)conducting polymers in dispersed media
12:15-12:30	Oral 2.6	Theresa Rienmüller	Modeling cellular membrane potential using organic photovoltaic devices
12:30-12:45	Oral 2.7	Jozef Krajcovic	Side chain engineering: the role of bulky substituents towards to original properties of organic optoelectronic materials
12:45-13:00	Oral 2.8	Johannes Gierschner	Charge Transfer State Engineering for Tailor-Made Luminescent Organic Materials
13:00-14:00	Free Time		
14:00-16:10	<b>Session 2C - Chair: Antonio Facchetti</b>		
14:00-14:30	<b>PL 2.2</b>	Magnus Berggren	Substrate-free Organic Bioelectronics Integrated with Living Cells and Tissues
14:30-14:50	<b>KL 2.4</b>	Eleni Stavrinidou	Plant bioelectronics for high resolution monitoring and electronic control of plant processes
14:50-15:05	Oral 2.9	Mingna Liao	Cellulose-Based Radiative Cooling and Solar Heating Powers Ionic Thermoelectrics
15:05-15:20	Oral 2.10	Stephanie Valianti	Charge-Transport Mechanisms in Desulfobubaceae Microbial Nanowires (Cable Bacteria)
15:20-15:35	Oral 2.11	Matteo Grattieri	Bio-inspired Approaches for Biotic/abiotic Interfaces in Intact Bacteria-based Biophotoelectrochemical Systems
15:35-15:50	Oral 2.12	Marianna Ambrico	Mixing and matching sustainable Melanin&Keratin from waste for green electronics
15:50-16:30	Coffee Break & Poster Preview		

<b>16:30-18:00</b>	<b>Session 2D - Chair: Magnus Berggren</b>		
16:30-16:45	Oral 2.13	Arianna Magni	The Photophysics of Cell Membrane-Targeting Phototransducers
16:45-17:00	Oral 2.14	Fabio Marangi	On the Coupling Mechanism Occurring at the Neuron-Nanoparticle Interface
17:00-17:15	Oral 2.15	Elliot Goldberg	The Effects of Strain on the Electronic Properties of Rubrene Single Crystals
17:15-17:30	Oral 2.16	Giuseppina Pace	2D-Materials and Hydrogels based Triboelectric Nanogenerators (TENGs) for Energy Harvesting and Self-Powered Tactile Sensors
17:30-17:45	Oral 2.17	Arianna Quesada Ramirez	Ellipsometric measurements in organic semiconducting materials for photovoltaics
17:45-18:00	Oral 2.18	Hang Yu	Towards a Deeper Understanding of the Ionic Charging in Naphthalenediimide-Based N-Type Conjugated Polymer Electrodes
18:00-19:30	<b>Poster Session 2: tasting of Peroni brewery beers and Apulian taralli</b>		

## Wednesday, October, 4<sup>th</sup> 2023

09:00-10:35	<b>Session 3A - Chair: Alberto Salleo</b>		
09:00-09:30	<b>PL 3.1</b>	Paolo Samorì	Supramolecular opto-electronics: digital multiresponsive devices with enhanced functionalities
09:30-09:50	<b>KL 3.1</b>	Maurizio Prato	Synthesis, Properties and Applications of Carbon Nanodots
09:50-10:05	Oral 3.1	Chris McNeill	Resonant Tense X-ray Scattering of Conjugated Polymers
10:05-10:20	Oral 3.2	Michal Valasek	Electrically and mechanically decoupled single chromophores by tripodal scaffolds on gold: Towards Organic Optoelectronic Devices
10:20-10:35	Oral 3.3	Edmund Leary	How Does Antiaromaticity Affect Single Molecule Conductance?
10:35-11:05	Coffee Break		
11:05-13:10	<b>Session 3B - Chair: Fabio Biscarini</b>		
11:05-11:35	<b>PL 3.2</b>	Thuc-Quyen Nguyen	Conjugated Polyelectrolytes for Opto-electronic Devices
11:35-11:55	<b>KL 3.2</b>	Feng Gao	Minimizing voltage losses in organic solar cells
11:55-12:10	Oral 3.4	Ergang Wang	Non-Conjugated Polymeric and Dimeric Acceptors for Efficient Polymer Solar Cells
12:10-12:25	Oral 3.5	Mathias Nyman	Controlled Doping of the Active Layer as a possible Performance Enhancer in Organic Solar Cells
12:25-12:40	Oral 3.6	Chang-Qi Ma	Degradation Mechanism and Stability Improvement of Organic Solar Cells
12:40-12:55	Oral 3.7	Jeannine Grune	Triplet excitons and associated efficiency-limiting pathways in organic photovoltaics based on non-fullerene acceptors
12:55-13:10	Oral 3.8	Ramesh Y. Adhikari	Transparent Conductive Films of PEDOT:PSS-Amino Acid Composite
13:10-14:30	Lunch Buffet		
15:00	Transfer to Alberobello, meeting point Teatro Piccinni		
16:15-18:00	Alberobello Tour		
18:30	Transfer from Alberobello to Social Dinner		
19:30-23:00	Social Dinner: Masseria Agriturismo Lama San Giorgio		

## Thursday, October, 5<sup>th</sup> 2023

09:00-10:50	<b>Session 4A - Chair: Thuc-Quyen Nguyen</b>		
09:00-09:30	<b>PL 4.1</b>	Alberto Salleo	Do crystals matter in conjugated polymers? Linking microstructure to charge transport at several length scales
09:30-09:50	<b>KL 4.1</b>	Marta Mas Torrent	Towards reproducible, stable and reliable printed OFETs
09:50-10:05	Oral 4.1	Natalie Banerji	Terahertz Spectroscopy as a Tool to Study Charge Carriers in Functional Organic Semiconductors
10:05-10:20	Oral 4.2	Pia Damlin	Probing the electronic and structural properties of organic flexible thin films by in situ spectro-electrochemistry
10:20-10:35	Oral 4.3	Regina Hoffmann-Vogel	Shell effects in electromigrated Cu-nanocontacts under ambient conditions
10:35-10:50	Oral 4.4	Tae-il Kim	Choline ion gel based organic electrochemical transistors for bioelectronics
10:50-11:20	Coffee Break & Poster Preview		
11:20-13:00	<b>Session 4B - Chair: Guglielmo Lanzani</b>		
11:20-11:40	<b>KL 4.2</b>	Maria Antonietta Loi	SnO <sub>2</sub> for inverted non-fullerene acceptor organic solar cells
11:40-12:00	<b>KL 4.3</b>	Dirk Guldi	Adaptive Down- and Up-Conversion
12:00-12:15	Oral 4.5	Fengling Zhang	Investigate the Effect of Solvent and Additive in Formation of All-Polymer Solar Cells with Situ Optical Spectroscopy
12:15-12:30	Oral 4.6	Daniela De Venuto	A Wearable and Flexible Potentiometric Chloride Activity Sensing Platform with Replaceable Electrodes for Cystic Fibrosis Diagnosis at home
12:30-12:45	Oral 4.7	Peter Baeuerle	Molecular Donor-Acceptor Dyads and Triads for Single Material Organic Solar Cells
12:45-13:00	Oral 4.8	Nuria Crivillers	Photoluminescence properties of single-walled carbon nanotubes modified with Stable Organic Radicals
13:00-14:00	Free Time		
14:00-16:05	<b>Session 4C - Chair: Eleonora Macchia</b>		
14:00-14:30	<b>PL 4.2</b>	Takuzo Aida	Electronically or Electrically Active Dynamic Materials Based on Supramolecular Polymers
14:30-14:50	<b>KL 4.4</b>	Yoann Olivier	Controlling spin by materials design in light-emitting applications: A computational perspective
14:50-15:05	Oral 4.9	Xianjie Liu	Optoelectronic properties of two-dimensional organic molecular crystals upon their electronic structure
15:05-15:20	Oral 4.10	Elena Mena-Osteritz	Toroidal Through Space Conjugation in 3D-Aromatic Molecules
15:20-15:35	Oral 4.11	Alberto Bossi	3D Supramolecular Hybrid Heterostructures on Highly Ordered 2D Thin Film: Coordination Chemistry at Work with Tetrapyrrolic Macrocycles Network
15:35-15:50	Oral 4.12	Kai Lin Woon	Fast and Accurate Determination of the Singlet-Triplet Gap in Donor-Acceptor and Multiresonance TADF Molecules by Using Hole-Hole Tamm-Dancoff Approximated Density Functional Theory

15:50-16:05	Oral 4.13	Daniele Padula	Identification of Unknown Inverted Singlet-Triplet Cores by High-Throughput Virtual Screening
16:05-16:30	Coffee Break & Poster Preview		
16:30-17:45	<b>Session 4D - Chair: Marta Mas</b>		
16:30-16:45	Oral 4.14	Alessandro Landi	Simulation of organic mixed ionic and electronic conductors with a combined classical and quantum mechanical model
16:45-17:00	Oral 4.15	Tahereh Nemetiaram	Organic Electronics from Structural Database: New High Mobility Materials and Design Strategies
17:00-17:15	Oral 4.16	Wei Wu	Integrated simulation of organic materials: From stationary to dynamical
17:15-17:30	Oral 4.17	Hesam Makki	High-throughput modelling of semiconducting polymers: a revolutionary route to in silico design of conjugated polymer
17:30-17:45	Oral 4.18	Wenlan Liu	An <i>ab initio</i> method on predicting absorption spectra of crystalline organic semiconducting films
18:00-19:30	<b>Poster Session 3: tasting of Peroni brewery beers and Apulian taralli</b>		

## Friday, October, 6<sup>th</sup> 2023

09:00-10:45	<b>Session 5A - Chair: Luisa Torsi</b>		
09:00-09:30	<b>PL 5.1</b>	Zhenan Bao	Skin-inspired organic electronics
09:30-09:45	Oral 5.1	Stefano Toffanin	Organic Optoelectronic Components in a Smart-integrated System for Plasmonic-based Sensing
09:45-10:00	Oral 5.2	Stefano Casalini	Sustainable manufacturing of reduced-graphene oxide electrolyte-gated transistors: characterization, understanding and applications
10:00-10:15	Oral 5.3	Cinzia Di Franco	Kelvin-probe force microscopy of surface potential shift triggered by affinity binding in large-area bio-functionalized surfaces
10:15-10:30	Oral 5.4	Gabriel Gomila	Multiparametric nanocharacterization of electrolyte gated organic transistors in operando
10:30-10:45	Oral 5.5	Sabrina Steffens	Contact Resistance of Low-Voltage n-Channel Thin-Film Transistors Based on Three Different Organic Semiconductors
10:45-11:15	Coffee Break		
11:15-12:45	<b>Session 5B - Chair: Roberta Ragni</b>		
11:15-11:30	Oral 5.6	Mario Barra	Ambipolar transport and space-charge accumulation effects in organic heterojunction field-effect transistors
11:30-11:45	Oral 5.7	Ilary Belardi	Brewer's spent grain for greener OTFT structures
11:45-12:00	Oral 5.8	Li Changbai	Printed Bioelectronics via In-Situ Enzymatic Polymerization of Conjugated Oligomer-based Hydrogel Bioinks
12:00-12:15	Oral 5.9	Hela Fadool	Enhancing the Performance of State-of-Art solar cells by improving the Built-in Potential
12:15-12:30	Oral 5.10	Davide Vurro	Printed Wearable Electronics for Healthcare
12:30-13:15	Closing Cerimony		