Scientific Program

Wednesday, 5 February 2020

08:00 – 09:00  Registration, Morning Reception

09:00 – 09:20  Greetings and Welcome Ceremony
               Hossam Haick
9:20 – 10:50  Session 1 – Opening Plenary
  Chair – Hossam Haick

09:20 – 10:05  Howard E. Katz: "Material and Circuit Stabilization for Polymer Field-effect Transistor Vapor Sensing"

10:05 – 10:50  Sihong Wang: "Intrinsically stretchable polymer electronics for the next generation of wearable technology"

10:50 – 11:15  Coffee Break and Exhibition Visit

  Chair – Perena Gouma

11:15 – 11:40  Shady Farah: "Engineering bioactive functional polymers and delivery systems for enhancing the function of medical devices and wearable sensors"

11:40 – 12:05  Yossi Rosenwaks: "Selective Molecular Sensing using CMOS Compatible Nanowire Transistors"

12:05 – 12:30  Dima Shlenkevitch: "The GMOS - Towards a Gas Sensor for Smart Phones"

12:30 – 12:55  Rotem Vishinkin: "Tuberculosis detection via a wearable device based on nano-sensors"

12:55 – 14:20  Lunch Break + Posters Visit

14:20 – 16:00  Session 3 – Chemical Sensors for Wearable Devices – Part II
  Chair – Ivana M. Steinberg

14:20 – 14:45  Ronald Österbacka: "Functional Materials at Biological Interfaces"


15:10 – 15:35  Gil Shalev: "Beyond The Debye Screening Length In Field-Effect Biosensors"

15:35 – 16:00  Ning Tang: "Ultra Aligned Nanowires-based Wearable Sensors for Real-time Chemical Sensing"

16:00 – 16:30  Coffee Break and Exhibition & Posters Visit

16:30 – 17:30  Session 4 – Flash talk (15-minute presentations)
  Chairs – H. Haick, Y. Broza

16:30 – 16:45  Sinwook Park: "Ionic Concentration-Polarization based Biomolecule Preconcentration and Sensing"

16:45 – 17:00  Natalia Barger: "Synthetic Metabolic Computation in a Bioluminescence-Sensing System"

17:00 – 17:15  Rajendra Prasad Shukla: "Electrochemical Sensor for the Real-Time Detection of Antipsychotic"

17:15 – 17:30  Tali Dotan: "Microelectrodes Patterning by Supersonic Cluster Beam Deposition (SCBD) and FS Laser Processing"

17:30  Get Together Cocktail + Posters
Thursday, 6 February 2020

08:30 – 09:00  Registration, Morning Reception

09:00 – 10:40  Session 5 – Plenary  
Chair – Matthew D. Steinberg  
09:00 – 09:50  Joseph Wang: “Wearable Electrochemical Sensors: Towards Labs on the Skin and on the Mouth”  
09:50 – 10:40  Shizuo Tokito: “Flexible Printed Biosensors for Healthcare and Medical Applications”

10:40 – 11:10  Coffee Break and Exhibition Visit

11:10 – 12:50  Session 6 – Integrated Accessories for Wearable Devices  
Chair – Gidi Shani  
11:10 – 11:35  Perena Gouma: “Wearable Metabolic Rate Monitors”  
11:35 – 12:00  Carol Crean: “Fibre-based chemical sensors for wearable applications”  
12:00 – 12:25  Neus Sabaté: “Paper batteries as self-powered sensors for single use wearable patches”  

12:50 – 14:10  Lunch Break + Posters Visit

14:10 – 15:55  Session 7 – Accessories and Applications of Wearable Devices  
Chair – Yoav Broza  
14:40 – 15:05  Pavel Goldstein: “Painometry: Wearable System for Automated, Objective, and Continuous Quantification of Pain”  
15:05 – 15:30  Yosi Shacham: “Plant-wearable” Electrochemical and Electrical Impedance Spectroscopy sensors”  
15:30 – 15:55  Gidi Shani: “Sniffphone - Smartphone-aided Medical Diagnosis from Exhaled Breath”

15:55 – 16:20  Coffee and Poster Visit

16:20 – 17:20  Session 8 – Microfluidics based biosensors  
Chair – Hossam Haick  
16:50 – 17:20  Gilad Yossifon: “Micromotor-Based Biosensing via Label-Free and Selective Transport of Functionalized Beads”

17:20  Closing Remarks and Poster Awards  
Hossam Haick