

5th Israeli Fuel Cells Consortium Workshop November 14-15, 2022

Bar Ilan University, Ramat-Gan Auditorium of the Bar-Ilan Center for Advanced Materials and Nanotechnology (Ground floor, Building # 206)

9:00 - 9:10	Brian ROSEN	Tel-Aviv University	Welcoming Remarks
	Lior ELBAZ	Bar-Ilan University	-
9:10-9:30	Lior Elbaz	Bar-Ilan University	Summary of IFCC Activities, fuel Cells and
			Hydrogen activities in Israel
9:30 - 10:15	Bart BIEBUYCK	Director of the EU	Clean Hydrogen Partnership: bringing
		Clean Hydrogen	innovation to the point of market readiness
		Joint Undertaking	
10:15-10:30	Sunita Satyapal	Director of the	HFTO Overview
		Hydrogen and Fuel	
		Cells Technologies	
		Office, US-DOE	
		HFTO	
10:30 - 10:45			Coffee Break
10:45-11:15	Vojislav	University of	Progress in Fuel Cell Catalyst Design
	STAMENKOVIC	California - Irvine	
11:15 - 11:45	David CULLEN	Oak Ridge National	New Insights into fuel cell catalysts through
		Lab	automated analytical electron microscopy
11:45 – 12:15	Vito DI NOTO	University of Padova	Interplay between properties and performance
			of ionomers and electrocatalysts for ion-
			exchange membrane fuel cells
12:15 - 13:30			Lunch
13:30 – 14:15			FLASH POSTER SESSION #1 (3 min each = 10
			participants)
14:15 – 14:45	Mark KOPER	Leiden University	Electrolyte Effects in Electrocatalysis
14:45 – 1515	Slava FREGER	Technion	The ion conductance and fuel crossover in FC
			membranes: a unified view and new insights
15:15 -15:30		-	Coffee Break
15:30-16:00	Jose ZAGAL	University of	Biomimetic 3D Modulation of the
		Santiago	Electrocatalytic Activity of MN ₄ Molecular
			Catalysts via Axial ligation to Carbon Nanotubes
			using Reactivity Descriptors for the O2
			reduction reaction
16:00-16:30	John T.S. IRVINE	University of St Andrews	Interfacial Engineering in Solid Oxide Cells
1630:17:00	Prabhakar SINGH	University of	Trace contaminants, electrode poisoning and
		Connecticut	degradation mitigation using getters in high
			(low) temperature electrochemical systems
17:00	Brian ROSEN	Tel-Aviv University	Closing Remarks











Tuesday November 15th, 2022 Bar Ilan University, Ramat-Gan Auditorium of the Bar-Ilan Center for Advanced Materials and Nanotechnology (Ground floor, Building # 206)

9:00 - 9:30	Plamen	University of	Atomically Dispersed Transition Metal-Nitrogen-
	ATANASSOV	California - Irvine	Carbon Catalysts Beyond the ORR Function
9:30 - 10:00	Piotr ZELENAY	Los Alamos	PGM-free Electrocatalysts for Hydrogen Production
		National Lab	in Low-Temperature Water Electrolyzers
10:00 - 10:30	David EISENBERG	Technion	Hydrazine Oxidation Electrocatalysis: From Fresh
			Insights to New Materials
10:30-10:45			Coffee Break
10:45-11:15	Gang WU	State University of	Durable and High-Power Iron-Based Cathodes for
		New York at	Proton-Exchange Membrane Fuel Cells
		Buffalo	
11:15-11:45	Frederic JAOUEN	CNRS	Deactivation mechanisms of single-atom-sites from
			Fe-N-C catalysts in operating conditions
11:45-12:15	Ulrike KRAMM	Technical	Impact of purification treatments of FeNC stability
		University of	in PEMFC
		Darmstadt	
12:15 – 12:45	Ilya GRINBERG	Bar-Ilan University	Computational studies of ORR activity and
			degradation of PGM-free molecular catalysts
12:45 – 14:00			Lunch
14:00 - 14:45			FLASH POSTER SESSION #2 (3 min each = 15
			participants)
14:45-15:15	Carlo SANTORO	University of	Designing platinum group metal-free
		Milano-Bicocca	electrocatalysts for fuel cells and electrolyzers
			derived from wastes
15:15-15:45	Stefania SPECCHIA	Politecnico di	The use of waste biomass to produce PGM-free
		Torino	electrocatalysts for the oxygen reduction reaction.
15:45-16:00			Coffee Break
16:00-16:30	Marc SECANELL	University of	Transient, multi-scale, multi-phase analysis of
		Alberta	polymer electrolyte fuel cells and electrolyzers
16:30-17:00	Brian ROSEN	Tel-Aviv University	Electrochemical performance of MXene-based
			catalysts at positive potentials
17:00-17:30	Pawel KULESZA	University of	Development of Electrocatalytic and
		Warsaw	photoelectrochemical systems for selective
			reduction of CO ₂
17:30-18:00	Shimshon	University of	Some Remaining PEFC Science and Technology
	GOTTESFELD	Delaware	Challenges on the way to Mass Market Entry
18:00	Brian ROSEN	Tel-Aviv University	Closing Remarks
	Lior ELBAZ	Bar-Ilan University	







