



## 4<sup>th</sup> Israeli Fuel Cells Consortium Workshop - 2019

### Tentative Agenda

**Tuesday October 29<sup>th</sup>** (David Intercontinental Hotel, Tel Aviv)

9:00 – 9:15 am	Dario DEKEL Yoed TSUR Lior ELBAZ	<b>Welcome / opening</b>
9:15 – 9:30 am	Anat BONSHTEIN	
		Morning Session – Chairman: Lior ELBAZ
9:30 – 10:00 am	Karen LYONS	The Importance of Materials Porosity in Fuel Cell Performance at High power
10:30 – 11:00 am	Paulo FERREIRA	Understanding the Degradation of Nanocatalysts in PEM Fuel Cells by Identical Location Aberration-Corrected TEM/STEM
11:00 – 11:20 am		<b>Coffee Break</b>
11:20 – 11:50 am	Miles PAGE	AEM Fuel Cells in Practice: Operational Challenges
11:50 – 12:20 pm	Andreas FRIEDRICH	Research for the next generation of polymer exchange membrane fuel cells
12:20 – 12:50 am	Craig GITTLEMAN	High Impact Materials Research and Development for Low Cost Automotive PEM Fuel Cells
12:50 – 2:15 pm		<b>Lunch</b>
		Afternoon Session – Chairman: Yoed TSUR
2:15 – 2:45 pm	Massimo SANTARELLI	Industrial-Size Biogas-Fed SOFC systems: experiences and opportunities
2:45 – 3:15 pm	SINGH PRABHAKAR	High temperature Electrochemical Systems: Electrode processes for enhanced performance and stability
3:15 – 3:45 pm	Miriam RAFAILOVICH	Nanoparticle/membrane synergistic reactions for enhanced PEMFC power output, durability, and CO resistance
3:45 – 4:15 pm	David ZITOUN	Low PGM Electrocatalysts for PEMFCs and AEMFCs
4:15 – 4:45 pm	Marc SECANELL	Multi-scale polymer electrolyte fuel cell modelling with OpenFCST
4:45 – 5:00 pm	Dario Dekel/Yoed Tsur	<b>Closing First Day of Workshop</b>
5:00 pm		Transportation to Haifa

**Wednesday October 30<sup>th</sup>** (Auditorium, first floor, Bldg. 06, Technion – Israel Institute of Technology, Haifa)

8:30 – 8:45 am	Dario DEKEL / Yoed TSUR	Welcome / opening
		Morning session – Chairman: Simon BRANDON
8:45 – 9:15 am	Bryan PIVOVAR	Advances in Anion Exchange Membrane Fuel Cells at NREL
9:15 – 9:45 am	Yu-Seung KIM	High-Performance Ionomeric Binders for Alkaline Membrane Fuel Cells
9:45 – 10:15 am		
10:15 – 10:30 am		<b>Coffee Break</b>
10:30 – 11:00 am	Steven HOLDCROFT	Solid Polymer Electrolytes for Acidic and Alkaline Electrochemical

		Devices
11:00 – 11:30 am	Dario DEKEL	Current Challenges in Anion Exchange Membrane Fuel Cells
11:30 – 12:00 pm	Peter PINTAURO	Performance and Durability of Membrane-Electrode-Assemblies with Ultra-Low Pt Nanofiber Electrodes
12:00 – 1:45 pm		<b>Lunch + Poster session</b>
		Afternoon Session – Chairman: Dario DEKEL
1:45 – 2:15 am	Piotr ZELENAY	Durability of Platinum Group Metal-free Electrocatalysts for Oxygen Reduction Reaction: A Formidable Challenge
2:15 – 2:45 am	Hector ABRUÑA	Fuel Cells: Novel Materials, Architectures and Operando Methods
2:45 – 3:15 pm	Anthony KUCERNAK	Performance of electrocatalysts at high overpotentials for the HOR and ORR reactions – experimental and modelling results for Pt <sub>4-x</sub> Cox /C (x=0,1,3)), and non precious metal Fe-NC catalysts
3:15 – 3:30 pm		<b>Coffee Break</b>
3:30 – 4:00 pm	Lior ELBAZ	Recent advances and challenges in the development of PGM-free ORR catalysts
4:00 – 4:30 pm	Michael EIKERLING	What determines local reaction conditions in fuel cell catalyst layers?
4:30 – 6:00 pm		<b>Posters</b>
6:00 pm	Dario Dekel/Lior Elbaz	<b>Closing</b>
6:30 pm		Transportation to Hotel