The 50th Meeting of the Israeli Polymers & Plastics Society

July 2, 2024 | Tel Aviv, Israel

FINAL PROGRAM

TUESDAY, JULY 2, 2024				
07:30-09:00	Registration and Breakfast Fo	oyer		
09:00-09:10	Opening Statement H	Hall K+L+M		
09:10-09:30	Honorary Membership Award – Mr. Nadav Goldstein Almog			
09:30-09:55	Honorary Membership Award			
09:55-11:15	Keynote Lectures			
09:55-10:35	"Supramolecular Approaches to Detect and Heal Defects in Polymers" Prof. Christoph Weder, University of Fribourg, Switzerland			
10:35-11:15	"Surface Engineering of Cellulose Nanocrystals for Sustainable Bioproduct Development" Prof. Emily Cranston, University of British Columbia, Canada			

11:15-11:45	Coffee Break			Foyer/Exhibition
11:45-13:30	HALL K+L+M Session 1A: Functional Fabrics and Fibers (In memory of KAFRIT IL fallen) Kafrit Group Chair: Prof. Elizabeth Amir, Shenkar - Engineering. Design. Art	HALL F Session 1B: Materials for biological Applications (In memory of TADBIK fallen) TADBIK Chair: Prof. Gerardo Byk, Bar-Ilan University	HALL G Session 1C: Functionalized Polymers (In memory of RAVAL A.C.S. LTD fallen) RAVAL Chair: Dr. Shady Farah, Technion - Israel Institute of Technology	HALL H Session 1D: Sustainability Solutions in the Plastic Industry (In memory of MOR PLASTIC INDUSTRIES LTD fallen) MOR MOUSTRIES Chair: Dr. Jasmine Rosen-Kligvasser Plaskolite
	11:45-12:05 Invited Lecture: "Long-Range Ordering of Polyelectrolyte Complexes" Eyal Zussman Technion - Israel Institute of Technology	11:45-12:07 Invited Lecture: "Microneedles for Tissue Adhesion, Drug Delivery and as a Platform for Living Materials" Boaz Mizrahi Technion - Israel Institute of Technology	11:45-12:07 Invited Lecture: "Facile One-Step Synthesis of Water-Soluble Cellulose Acetate" Yachin Cohen Technion - Israel Institute of Technology	11:45-12:07 Invited Lecture: "Can We Make a Recycled Material Equivalent to Prime?" Shiran Garnai Hirsch Netafim

12:05-12:25	12:07-12:29	12:07-12:29	12:07-12:29
Invited Lecture:	Invited Lecture:	Invited Lecture:	Invited Lecture:
"Shape-Morphing of Hierarchical	"Dual Composite Hydrogels as	"Polymeric Architecture as Tool for	"The Road to TÜV Biodegradability
Stimuli-Responsive Microfiber-	Bioadhesives, Medical Sealants,	Programming Transformable	Certification"
Meshes"	and Scaffolds for Tissue	Materials"	Moira Nir
Amit Sitt	Regeneration Applications"	Roey Amir	Solutum
Tel Aviv University	Meital Zilberman	Tel Aviv University	
	Tel Aviv University		
12:25-12:45	12:29-12:51	12:29-12:51	12:29-12:51
Invited Lecture:	Invited Lecture:	Invited Lecture:	Invited Lecture:
"When Nature meets	"Multifunctional Remotely	"Salt Dependent Behavior and	"Converting Agricultural Plastic Waste
Nanotechnology: Development of	Targeted Nanoparticles and	Properties of Methylcellulose	into Value-Added Composite
Novel Bio-Composites and	Mechanical Targeting of Cancer	Solutions"	Materials"
Polymers from Renewable	Cells"	Lucy Liberman	Jenny Goldman
Resources"	Ofra Benny	Technion - Israel Institute of	Carmel Olefins
Shachar Richter	The Hebrew University of	Technology	
Tel Aviv University	Jerusalem		

	HALL K+L+M	HALL F	HALL G	HALL H
	Session 1A: Functional Fabrics and	Session 1B: Materials for biological	Session 1C: Functionalized Polymers	Session 1D: Sustainability Solutions in
	Fibers (cont.)	Applications (cont.)	(cont.)	the Plastic Industry (cont.)
	12:45-13:05	12:51-13:04	Invited Lecture:	12:51-13:04
	Invited Lecture:	"Novel Non-viral Biocompatible	12:51-13:04	"Recycled Rubber Powder from End of
	"Functional Non-Woven Fabrics	Nano Hydrogel for Gene Delivery"	"Development and Characterization	Life Tires as a Functional Filler and
	Comprising Probiotics"	Eswaran Lakshmanan	of Integrated Nano-Sensors for	Additive in Polyolefines - A Circular
	Nir Debotton	Bar Ilan University	Organic Residues and pH Field	Economy Approach"
	Shenkar - Engineering. Design. Art.		Detection"	Eynat Matzner
			Ran Suckeveriene	Tyrec
			Kinneret Academic Collage	
	13:05-13:18	13:04-13:17	Invited Lecture:	13:04-13:17
	"One-Dimensional Assembly of	"Thermoplastic Segmented	13:04-13:17	"Environmental Impact Differences in
	Proteins via Electrospinning"	Polyurethane/poly(L-lactide) Blend	TBA	Batch and Flow Chemistry: Case Study
	Rita Vilensky	as Drug-Eluting Delivery System"	Qi Wu	of Single-Chain Nanoparticle
	Technion - Israel Institute of	Deborah Shalev	Technion - Israel Institute of	Production"
	Technology	Azrieli College	Technology	Or Galant
				Technion - Israel Institute of Technology
	13:18-13:30	13:17-13:30	Invited Lecture:	13:17-13:30
	"Electrospinning of Epoxy Fibers:	"Unlocking Next-Gen Polyolefin	13:17-13:30	"Hydrothermal Decomposition of
	Solution, Process and Mechanical	Degradation by Heat-Resistant	"Tba Engineering Linear And	Plastic — Valorization of Non-
	Properties"	Double Emulsions"	Crosslinked Nanoparticles Dual	Recyclable Mixed Plastic Waste"
	Mark Shneider	Jesila Antolin	Functionalized Uracil And Hydantoin-	Ran Darzi
	Weizmann Institute of Science	Volcani Institute	Based Antiviral/Antimicrobial	Volcani Institute
			Polymers"	
			Eid Marjieh	
			Technion - Israel Institute of	
			Technology	
13:30-14:45	Lunch			
14:45-15:45	Poster Session			

	HALL K+L+M	HALL F	HALL G	HALL H
	Session 2A: Physics and	Session 2B: Composite materials	Session 2C: Bioinspired and	Session 2D: Self-assembly in biomaterials
	biophysics of biopolymers	(In memory of POLYSACK FLEXIBLE	biodegradable polymers	(In memory of RODED RECYCLING
	(In memory of UBQ fallen)	PACKEGING LTD fallen)	(In memory of EREZ THERMOPLASTIC	INDUSTRIES LTD fallen)
15:45-17:30	ubq	POLYSACK WATCHEST TO	PRODUCTS fallen) EREZ	RODED Pourquanta
	Chair: Anne Bernheim , Ben-Gurion University	Chair: Noa Lachman-Senesh , Tel-Aviv University	Chair: Moran Frenkel-Pinter, The Hebrew University of Jerusalem	Chair: Ulyana Shimanovich , Weizmann Institute of Science
	15:45-16:07	15:45-16:11	15:45-16:07	15:45-16:07
	Invited Lecture:	Invited Lecture:	Invited Lecture:	Invited Lecture:
	"Mechanical Aspects Govern the	"What Can We Learn from Nature's	"New Biodegradable Materials	"Self-Assembly of Short Peptides and
	Function of Milk Producing Cells	Soft Composite Materials?"	Based On Nature-Sourced	Amino Acids into Functional Coatings"
	in Culture"	Mirit Sharabi	Polysaccharides"	Meital Reches
	Yifat Brill-Karniely Volcani Institute	Ariel University	Elena Poverenov Volcani Institute	The Hebrew University of Jerusalem
	voicum mstitute		voicum mstitute	
	16:07-16:29	16:11-16:37	16:07-16:29	16:07-16:29
	Invited Lecture:	Invited Lecture:	Invited Lecture:	Invited Lecture:
	"Polymer Physics of DNA and	"Thermal conductivity enhancement	"Bioinspired Materials for	TBA
	Bacterial Chromatin"	of polymer based composite	Biomedical Applications"	
	Oleg Krichevsky	materials"	Lihi Adler-Abramovich	Ben Palmer
	Ben Gurion University	Avia Ohayon Ben Gurion University	Tel Aviv University	Ben Gurion University
	16:29-16:51	16:37-16:50	16:29-16:51	16:29-16:51
	Invited Lecture:	"Modifying the Properties and	Invited Lecture:	Invited Lecture:
	"The unique properties of	Performance of Biodegradable	TBA	Ice Nucleation Proteins' Self-Assembly
	fibrous gels and how they	Polymers with Atomic Layer	Gonen Ashkenasy	Ido Braslavsky
	mediate cellular interaction"	Deposition"	Ben Gurion University	The Hebrew University of Jerusalem
	Ayelet Lesman	Gil Menasherov		
	Tel Aviv University	Technion - Israel Institute of		
		Technology		

	HALL K+L+M	HALL F	HALL G	HALL H
	Session 2A: Physics and biophysics of biopolymers (cont.)	Session 2B: Composite materials (cont.)	Session 2C: Bioinspired and biodegradable polymers (cont.)	Session 2D: Self-assembly in biomaterials (cont.)
	16:51-17:04 "Engineering Culture Systems with Controlled Properties for Exploring Milk Proteins Secretion" Nir Zaharoni Volcani Institute	16:50-17:03 "Alloy Nanowire Arrays with Controlled Compositions Templated by Block Copolymers" Ofer Burg The Hebrew University of Jerusalem	16:51-17:04 "Bioplastic Material Based on Ethyl Cellulose" Eden Shlush Technion - Israel Institute of Technology	16:51-17:04 "Nitrogen-Rich, Polyethyleneimine-Based, Interpenetarating Network Porous Monoliths: Synthesis and Application" Dahiana Mayer-Keren Technion - Israel Institute of Technology
	17:04-17:17 "Boronic Esters as Dynamic Crosslinks in Covalent Adaptable Network" Tair Sasson Shenkar - Engineering. Design. Art.	17:03-17:16 "Additive Manufacturing of Graphene-Based Composites with Diamonds as High-Volume Fillers" Shani Ligati Schleifer Ben Gurion University	17:04-17:17 "Degradable Porous Polyesters via Emulsion-Templating: Synthesis, Properties, 3D Printing, and Cell Growth" Bar Shlomo-Avitan Technion - Israel Institute of Technology	17:04-17:17 "A Self_Healing Multispectral Transparent Adhesive Peptide Glass" Gal Finkelstein-Zuta Tel Aviv University
	17:17-17:30 "Biocompatibility and Degradation of PLA Reinforced with Tungsten Disulfide Nanotubes for 3D-printed Bone Scaffold" Ofek Golan Tel Aviv University	17:16-17:30 "Technological Synergy: Integration of Polymers and Ceramics in Design, Through Advanced Processes" Ira Shtein Rozenman Shenkar - Engineering. Design. Art. Technology	17:17-17:30 "A Novel Hot-Melt Biodegradable Tissue Adhesive for Bone Fracture Repair" Orel Shem Tov Shenkar - Engineering. Design. Art.	17:17-17:30 "Bioadhesive Microneedle Patches for Tissue Sealing" Eden Freundlich Technion - Israel Institute of Technology
17:30-17:45	Closing Remarks and Best Poster/	Talk Award		