

## MINID TINIX

## לשכת המהנדסים האדריכלים והאקדמאים במקצועות הטכנולוגיים בישראל

## הכנס הישראלי <mark>ה-35 להנדסת מכונות ICME 2018</mark>

9-10/10/2018

באוניברסיטת בן-גוריון בנגב | קמפוס ע"ש משפחת מרקוס, באר-שבע





9 October 2018







Professor Mark G. Jones Professor Philip Eames האלוף (במילי) נמרוד שפר Professor Ephraim Gutmark

8-00 9-00 9-30 Greetings 9-30 9-30 10-18 Penary lecture: Creating a New Future with IAI Nimord Sheffer 11-10-15 11-10 11-30 11-30 Coffee break  Coffee break  Fluid mechanics (A1) - Chair: Herman Haustein  11-30 11-48 New Theoretical Model Predicting the Bubble Pump Performance Bella Gurevich  11-30 11-49 New Theoretical Model Predicting the Bubble Pump Performance Bella Gurevich  11-30 11-49 New Theoretical Model Predicting the Bubble Pump Performance Bella Gurevich  11-30 11-49 New Theoretical Model Predicting the Bubble Pump Performance Bella Gurevich  11-40 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-24 12-							
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15:12 15:30 Blood Flow in a Healthy Abdominal Aorta Versus Configurations of Aneurysmatic Abdominal Aortas Post 'Chimney' Endovascular Repair  15:30 15:45 Coffee break  Coffee break  Fluid mechanics (C1) - Chair: Yuri Feldman  Does the speed of a blind fish influences its hydrodynamic imaging?  16:03 16:21 Bioinspired wall detection by a spherical underwater sensor: Tomer Maayan  16:21 16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:37 17:15 Wave energy dissipation in two-dimensional breakers Anatoliy Khait	14:36	14:54	, ,	Rajesh Nimmagadda		Dvir Mendler	
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15:30 15:45 Coffee break Coffee break  Fluid mechanics (C1) - Chair: Yuri Feldman  Does the speed of a blind fish influences its hydrodynamic imaging?  Michael Nareznoy  Bioinspired wall detection by a spherical underwater sensor: Tomer Maayan  16:21 16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:37 17:15 Wave energy dissipation in two-dimensional breakers Anatoliy Khait	15:12	15:30	of Aneurysmatic Abdominal Aortas Post 'Chimney' Endovascular	Moshe Brand			
15:45 16:03 Does the speed of a blind fish influences its hydrodynamic imaging?  16:03 16:21 Bioinspired wall detection by a spherical underwater sensor: Tomer Maayan  16:21 16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:39 16:57 Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing  Wave energy dissipation in two-dimensional breakers Anatoliy Khait	15:30	15:45			Coffee break		
15:45 16:03 Does the speed of a blind fish influences its hydrodynamic imaging?  16:03 16:21 Bioinspired wall detection by a spherical underwater sensor: Tomer Maayan  16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:39 16:57 Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing  Wave energy dissipation in two-dimensional breakers Anatoliy Khait			Fluid mechanics (C1) - Chair: Yuri Feldr	man			
imaging?  16:31 16:21 Bioinspired wall detection by a spherical underwater sensor: Tomer Maayan  16:21 16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:39 16:57 Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing  16:57 17:15 Wave energy dissipation in two-dimensional breakers Anatoliy Khait	45.45	40:00					
theory and experiment  16:21 16:39 Obstacle detection by a blind Mexican Tetra fish in current Tomer Maayan  16:39 16:57 Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing  Wave energy dissipation in two-dimensional breakers Anatoliy Khait			imaging?	Í			
16:39 16:57 Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing  16:57 17:15 Wave energy dissipation in two-dimensional breakers Anatoliy Khait	16:03	16:21		Tomer Maayan			
16:57 17:15 waves under steady wind forcing Anna Chernyshova  Manual Chernyshova  Anna Chernyshova  Wave energy dissipation in two-dimensional breakers Anatoliy Khait	16:21	16:39	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tomer Maayan			
	16:39	16:57		Anna Chernyshova			
17:15 17:33	16:57	17:15	Wave energy dissipation in two-dimensional breakers	Anatoliy Khait			
	17:15	17:33					

	16:03	16:21	Bioinspired wall detection by a spherical underwater sensor: theory and experiment	Tomer Maayan			
	16:21	16:39	Obstacle detection by a blind Mexican Tetra fish in current	Tomer Maayan			
	16:39	16:57	Experimental study of spatial evolution of quasi-monochromatic waves under steady wind forcing	Anna Chernyshova			
	16:57	17:15	Wave energy dissipation in two-dimensional breakers	Anatoliy Khait			
	17:15	17:33					
l.				9 October 2018	8		
	8:00	9:00	Registration				
	9:00	9:30	Greetings				
	9:30	10:15	Plenary lecture: Creating a New Future with IAI	Nimrod Sheffer			
	10:15	11:00	Plenary lecture: Renewable Energy in the UK	Philip Eames			
	11:00	11:30	Coffee break	Timp Lames	Coffee break		
	11.00	11.50					
			Robotics (A3) - Chair: David Zarrouk		Manufacturing (A4) - Chair: Guy Ben	-пати	
	11:30	11:48	Mapping of Human Hand Motion to Robotic Gripper for Telemanipulation Tasks	Adi Cohen	Investigating the effect of manufacturing technique of 3D printed AlSi10Mg alloy on the dynamic stress-strain behavior	Ben Amir	
	11:48	12:06	Wave Robotic Locomotion in Compliant Tube-Like Surfaces	Lee-Hee Drory	Robots for machining tasks: stiffness simulation	Vladimir Chapsky	
	12:06	12:24	Bio-inspired CPG controllers for walking bipedal robots on rough terrains	Alon Shirizly	Experimental Investigation on the dynamic properties of AlSi10Mg produced by Selective laser melting technique	Bar Nurel	
	12:24	12:42	A Simple State Sensing Method for Dynamic Running	Omer Nir	Active chatter control in orthogonal cutting	Arnon Lewinstein	
	12:42	13:00			3d printing from prototype to functional manufacturing	Raz Darbi	
	13:00	14:00	Lunch		Lunch		
			Robotics (B3) - Chair: Yizhar Or		Manufacturing (B4) - Chair: Eitan T	iferet	
	14:00	14:18	The "Boxer Method" for Reaching Absolute State of a One- Legged Dynamic Robot under Unknown Terrain	Adar Gaathon	Redefining Manufacturing with Metal 3D Printing	Ronny Eden	
	14:18	14:36	Hyper redundant articulated robot for NDT of close complex structures			Ran Carmeli	
	14:36	14:54	Theoretical analysis of wheeled three-link snake robot: singularities of nonholonomic constraints and stick-slip hybrid	Tal Yona	The New Dimension of Additive Manufacturing	Ziv Sadeh	
	14:54	15:12	dynamics  Analysis of Soft Robotic Locomotion and Bipedal Crawling	Benny Gamus	Utilization of Resin Transfer technologies to achieve highly integrated composite aero-structures	Lior Zilberman	
	15:12	15:30	Rising STAR, a highly reconfigurable crawling robot	David Zarrouk	integrated composite dore structures		
	15:30	15:45	Coffee break		Coffee break		
			Control and Autonomous systems (C3) - Chair: D	avid Zarrouk	3D Printing (C4) - Chair: Oz Golan		
	15:45	16:03	Optimizing a supervised traffic flow of autonomous vehicles	Shlomo Geller	Academy contribution to AATiD (Advanced Additive Titanium	Lior Zilberman	
	16:03	16:21	A Two Vehicle Highly Precise SLAM System	Wo Vehicle Highly Precise SLAM System  Dana Frez  3D printing of titanium medical implants applied to the		Gary Muller	
	16:21	16:39	Utilizing Mechanical Filters for a Single-Input Multi-Output Under-		Hybrid A380/AlSi10Mg aluminium component developed by incorporating die casting process and additive manufacturing	Avi Leon	
	16:39	16:57	Actuated Mechanical System  Control of flexible damped structures  Yoram Halevi  Print to Perform: Digitally Accelerating Additive Manufacturing technology  Print to Perform: Digitally Accelerating Additive Manufacturing technology		technology Print to Perform: Digitally Accelerating Additive Manufacturing	Netanel Viner	
	16:57	17:15	Fourth industrial revolution. Pohote and production automation		3D Metal Wire Laser Printing	Kotliar	
	17:15	17:33			Micro CT as an effective NDT method for characterizing defects in Additive Manufacturing (AM) process of metals	Oz Golan	
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٠				9 October 2018			
	8:00	9:00	Registration				
	9:00	9:30 Greetings					
	0.30	10:15	Plenany lecture: Creating a New Euture with IAI	Nimrod Shoffer			

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8:00	9:00	Registration					
9:00	9:30	Greetings					
9:30	10:15	Plenary lecture: Creating a New Future with IAI	Nimrod Sheffer				
10:15	11:00	Plenary lecture: Renewable Energy in the UK	Philip Eames				
11:00	11:30	Coffee break		Coffee break			
		Maintenance (A5) - Chair: Abraham Lav	vie .	Micro-systems (A6) - Chair: Oriel Shoshani			
11:30	11:48	Failure analysis of DC motor-brushes	Ruth Avivi	Fluid-solid interaction of minimally invasive procedures	Amit Vurgaft		
11:48	12:06	Predictive Maintenance - Risks and Opportunities	Abraham Lavie	A New Operational Principle of V-Shaped MEMS Thermal Actuator	Yaniv Cohen		
12:06	12:24	Mobile Test Cells for Combustion Engines	Israel Mizrahi	Self-sensing torsional resonators based on inorganic nanotubes	Dan Yudilevich		
12:24	12:42	Predictive Maintenance - The Wisdom in Simplicity turn Vision into Reality	Adi A. Atsits	SNIC Bifurcation and its Application to MEMS	Shay Kricheli		
12:42	13:00	Cfm56-5b combustion chamber outer liner	Gennady Goldfarb	Engineer at Intel, science fiction and what is between	Avi Minsky		
13:00	14:00	Lunch		Lunch			
		Materials (B5) - Chair: Oren Sadot		Micro-systems (B6) - Chair: Oriel Shoshani			
14:00	14:18	Indentation testing in nano-composite interfaces: analysis by Finite Element simulations	Yaniv Shelef	Internal Resonance in Electromechanical Systems	Raz Arbel		
14:18	14:36	Dynamic Tensile Properties of Ultra High Performance Concrete Using Split Hopkinson Bar	Elad Koronio	Design and Analysis of MEMS based clocks	Sahar Rosenberg		
14:36	14:54	Measuring the adhesion between a solid and a liquid	Rafael Tadmor	Array of Micro Resonators Parametrically Excited by Fringing Electrostatic Fields	Nir Dick		
14:54	15:12	New developments in static sealing	Asaf Shacham	Feasibility Study of a Resonant Accelerometer with Bistable Electrostatically Actuated Cantilever as a Sensing Element	Omer Halevy		
15:12	15:30	Dynamic properties by impact loading of additively manufactured AlSi10Mg alloy by selective laser melting technique	Elad Chakotay				
15:30	15:45	Coffee break		Coffee break			
		Materials (C5) - Chair: Rafael Tadmor	•	Micro-systems (C6) - Chair: Amir Gat			
15:45	16:03	Graded functional interfaces as a key for reduction stress intensifications in bi-material elements	Avihai Y. Uzan	Viscous-Peeling as a Method to Fabricate and Actuate Microchannel Networks and Soft-Actuators	Lior Salem		
16:03	16:21	Mechanical and electrical properties of AISI D2 tool steel and Pure Copper after cryogenic treatment	Andrey Rabin	Parametrically excited electro thermal micro resonator and its uses a a flow sensor	Ben Torteman		
16:21	16:39	A micro-mechanical fatigue model for failure prediction of laminated composites	Avigail Bar-Lev	Energy-optimal small-amplitude strokes for multi-link microswimmers	Oren Wiezel		
16:39	16:57			Control of multiple elastic actuators by a single input via interaction between viscosity and bi-stability	Eran Ben-Haim		
16:57	17:15						
17:15	17:33						
	9 October 2018						
8:00	9:00	Registration					
9:00	9:30	Greetings					
9:30	10:15	Plenary lecture: Creating a New Future with IAI	Nimrod Sheffer				
10:15	11:00	Plenary lecture: Renewable Energy in the UK	Philip Eames				
11:00	11:30	Coffee break					
		Instrumentation (A7) - Chair: Amir Or					

Giora Brandwine

Ofer Ben-Ephraim

Arnon Tal

Guy Sheinberg

Ofer Stern

11:30 11:48 Specifying and selection of control valves for special applications Samuel Lasman

Lunch Instrumentation (B7) - Chair: Amir Or

Conveying (E3) - Chair: Dmitry Portnikov

Nir Santo

Avi Uzi

Particle Velocity Reduction in Horizontal-Horizontal Bends of

Modeling of Simultaneous Particle Attrition and Pipe Wear

Energy distribution between a particle and surface during compression

Dilute Phase Pneumatic Conveying

14:00

14:18

14:36

8:00

9:00

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10:20

11:00

11:30

Registration

Plenary Lecture: The Road to Iron Dome

ITS and Smart Transportation

Plenary Lecture: How Engineering Tools Can Revolutionize

Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective

Challenges and Opportunities in the Implementing of Connected

The Impact of Vehicle - Traffic Signal Communications on Driver

Coffee break Intelligent Transportation Systems (D7) - Chair: Yehuda Gross

14:18

14:36

Pressure safety devices and tank protection for vacuum and over- Yuval Halperin

12:06 Pressure transducers technologies and mechanical connections

11:48

12:06

14:00

15:12

12:24 12:42 12:42 13:00 13:00

12:24

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15:12

15:30

Flow measurement

pressure

Standards and construction materials Instrumentation in Explosive Atmosphere

SKF bearing and engineering

15:12	15:30				
15:30	15:45	Coffee break			
				•	
			10 October 201	18	
8:00	9:00	Registration			
9:00	9:40	Plenary Lecture: The Road to Iron Dome	Uzi Rubin		
9:40	10:20	Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes	Ephraim Gutmark		
10:20	11:00	Plenary Lecture: Bulk Solids Handling Technology: An Australian	Mark Jones		
11:00	11:30	Perspective  Coffee break		Coffee break	
		Heat transfer (D1) - Chair: Josef Aharc	on .	Flow control (D2) - Chair: Beni Cuk	urel
11:30	11:48	Do We Need to Pose a Closure Problem to Capture the	Amit N. Shocron	Velocity and temperature streaming induced by travelling	Tapish Agarwal
11:48	12:06	Dynamics of the Capacitive Charging of Porous Electrodes?  Experimental Investigation on Incipient Boiling in an Enclosure	Yakov Soffer	waves and its effect on heat transfer Free Fall of Object In-water, Dynamic Parametric Analysis and	Sagi Shahar
		Numerical simulation of a single droplet drying in varying		Validation with Experiments	•
12:06	12:24	environmental conditions Thermohydraulic analysis and uncertainty propagation in the IRR-	Lihi Solomon	Desalination Wind-Pump Driven by Flow Control Production of Aerosols Consisting of Submicron-Sized Droplets	Anan Garzozi
12:24	12:42	1	Liel Ishay	by Perforated Tube Twin Fluid Nebulizer	Nataliya Dvoskin
12:42	13:00			Vibration Specifications of a supersonic missile	Matan Mendelovich
13:00	14:00	Lunch		Lunch	
		Heat transfer (E1) - Chair: Beni Cukur	el		
14:00	14:18	Scaling beyond the micro-scale in wet fluidizing gas - From wet particulate to agglomerates	Ziv Greidinger		
14:18	14:36	Modelling and characterization of pre-heating stage in electron beam	Eran Landau		
14:36	14:54	Improving Heat Transfer Coefficient of Gas Gas Heat Exchanger in Cross Flow	Ortal Tayar		
14:54	15:12	Thermal Cooling Enhancement Using Mixtures Undergoing Liquid/Liquid Phase Separation in Mini Domain	Idan Shem-Tov		
15:12	15:30	Elquid/Elquid i flase ocparation il Milli Bottlatti			
15:30	15:45	Coffee break		Coffee break	
		Heat transfer (F1) - Chair: Amos Ullma	nn	Optomechanics (F2) - Chair: Yuval La	amash
15:45	16:03	Study of asymmetrical melting in a vertical pipe	Yonatan Nimrodi	Isothermal optical bench design	Yuval Lamash
16:03	16:21	Experimental study of close-contact melting in a cylindrical	Tomer Shockner	Lens uplift phenomena and its possible prevention	Leonid Fraiman
		enclosure			
16:21	16:39	Sand deposition as temporary heat transfer enhancer  Cubic Equations of State and nucleation inception in boiling due	Dmitry Nemirovsky	Scaning mirror design consideration	Ben Farkash
16:39	16:57	to rapid heating	Yarden Amsalem	New design for dual axis scanner  Window mounting design considerations for severe	Oded Lahav
16:57	17:15			William Industring design considerations for severe	
17:15				environmental conditions	Leonid Rizyaev
	17:33			environmental conditions	Leonid Rizyaev
_	17:33			environmental conditions	Leonid Rizyaev
	17:33		10 October 201		Leonid Rizyaev
8:00	9:00	Registration	10 October 201		Leonid Rizyaev
8:00		Registration Plenary Lecture: The Road to Iron Dome	10 October 201 Uzi Rubin		Leonid Rizyaev
	9:00				Leonid Rizyaev
9:00	9:00 9:40	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize  Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian	Uzi Rubin		Leonid Rizyaev
9:00 9:40 10:20	9:00 9:40 10:20	Plenary Lecture: The Road to Iron Dome Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes	Uzi Rubin Ephraim Gutmark		Leonid Rizyaev
9:00 9:40 10:20	9:00 9:40 10:20 11:00	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize  Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian  Perspective	Uzi Rubin Ephraim Gutmark Mark Jones	18	
9:00 9:40 10:20	9:00 9:40 10:20 11:00	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalman  Modification of particulate plug models for dense phase plug	Uzi Rubin Ephraim Gutmark Mark Jones	Coffee break  Bioengineering (D4) - Chair: Moshe II Optimizing the biomechanics of a novel transcatheter mitral	
9:00 9:40 10:20 11:00	9:00 9:40 10:20 11:00	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize  Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian  Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalmar  Modification of particulate plug models for dense phase plug  conveying through pipelines  Analysis of particle flow in vertical dilute phase pneumatic	Uzi Rubin Ephraim Gutmark Mark Jones	Coffee break  Bioengineering (D4) - Chair: Moshe I Optimizing the biomechanics of a novel transcatheter mitral valve device with numerical models The biomechanics of valve-in-valve deployment and its effect	Grand .
9:00 9:40 10:20 11:00	9:00 9:40 10:20 11:00 11:30	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalmar Modification of particulate plug models for dense phase plug conveying through pipelines  Analysis of particle flow in vertical dilute phase pneumatic conveying  A Simple Model to Account Particle Breakage in Bends of	Uzi Rubin Ephraim Gutmark Mark Jones Anubhav Rawat Naveen Mani Tripathi	Coffee break  Bioengineering (D4) - Chair: Moshe I Optimizing the biomechanics of a novel transcatheter mitral valve device with numerical models The biomechanics of valve-in-valve deployment and its effect on leaflet thrombosis – a numerical model A Low Shear System for Development of Shear Responsive	Grand Gil Marom
9:00 9:40 10:20 11:00 11:30 11:48 12:06	9:00 9:40 10:20 11:00 11:30 11:48 12:06	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize  Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian  Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalmar  Modification of particulate plug models for dense phase plug  conveying through pipelines  Analysis of particle flow in vertical dilute phase pneumatic  conveying	Uzi Rubin Ephraim Gutmark Mark Jones Anubhav Rawat Naveen Mani Tripathi Dmitry Portnikov	Coffee break  Bioengineering (D4) - Chair: Moshe is Optimizing the biomechanics of a novel transcatheter mitral valve device with numerical models The biomechanics of valve-in-valve deployment and its effect on leaflet thrombosis – a numerical model A Low Shear System for Development of Shear Responsive Carriers for Focal Anticoagulation Computational Model of Particulate Drug Adhesion Kinetics to	Brand Gil Marom Halit Yaakobovich Yuval Gabso
9:00 9:40 10:20 11:00 11:30 11:48	9:00 9:40 10:20 11:00 11:30 11:48 12:06	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalmar Modification of particulate plug models for dense phase plug conveying through pipelines  Analysis of particle flow in vertical dilute phase pneumatic conveying  A Simple Model to Account Particle Breakage in Bends of Pneumatic Conveying  Investigating the coefficient of restitution of particles colliding with surfaces at various impact velocities	Uzi Rubin Ephraim Gutmark Mark Jones Anubhav Rawat Naveen Mani Tripathi	Coffee break  Bioengineering (D4) - Chair: Moshe I Optimizing the biomechanics of a novel transcatheter mitral valve device with numerical models The biomechanics of valve-in-valve deployment and its effect on leaflet thrombosis – a numerical model A Low Shear System for Development of Shear Responsive Carriers for Focal Anticoagulation Computational Model of Particulate Drug Adhesion Kinetics to Vascular Endothelium at Low Shear Flow Sites Associated with Cerebral Aneurysms	Brand Gil Marom Halit Yaakobovich Yuval Gabso
9:00 9:40 10:20 11:00 11:30 11:48 12:06	9:00 9:40 10:20 11:00 11:30 11:48 12:06 12:24	Plenary Lecture: The Road to Iron Dome  Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes  Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective  Coffee break  Conveying (D3) - Chair: Haim Kalmar  Modification of particulate plug models for dense phase plug conveying through pipelines  Analysis of particle flow in vertical dilute phase pneumatic conveying  A Simple Model to Account Particle Breakage in Bends of Pneumatic Conveying  Investigating the coefficient of restitution of particles colliding with	Uzi Rubin Ephraim Gutmark Mark Jones Anubhav Rawat Naveen Mani Tripathi Dmitry Portnikov	Coffee break  Bioengineering (D4) - Chair: Moshe II Optimizing the biomechanics of a novel transcatheter mitral valve device with numerical models The biomechanics of valve-in-valve deployment and its effect on leaflet thrombosis – a numerical model A Low Shear System for Development of Shear Responsive Carriers for Focal Anticoagulation Computational Model of Particulate Drug Adhesion Kinetics to Vascular Endothelium at Low Shear Flow Sites Associated with	Brand Gil Marom Halit Yaakobovich Yuval Gabso

Numerical analysis (E4) - Chair: Yuri Feldman

Rafi Sela

Liel Ishay

Avihai Spizzichino

Semi-implicit direct forcing immersed boundary method: An

application to periodically moving immersed bodies Numerical simulation of HM1\_1 benchmark on nuclear reactor

Structural evolution of fused optic-fiber components -Numerical simulations and experimental study

14.50	14.54	compression	Aviilei Silleibei	Numerical simulations and experimental study		
14:54	15:12	Using Rheometer to measure pick-up velocity and defining non- settling particles	Yeshayahu Levin	Spline-based structural optimization with explicit area and curvature constraints using a fixed grid	Yosef M. Yoely	
15:12	15:30	A computational study of human ooc mechanics: Can oocyte mechanics be		A computational study of human oocyte Zona Pellucida mechanics: Can oocyte mechanics be used as a predictor for	Elad Priel	
15:30	15:45	Coffee break		embryo implantation potential?  Coffee break		
		Hydraulics and Pneumatics (F3) - Chair: Mosl	he Kelman	Smart industry (F4) - Chair: Ilan A	lter	
15:45	16:03	Failure analysis – Case study of failing hydraulic isolation valve	Guy Arie	Vision2Reality - What is Industry 4.0 all about? & How to start the implementation?	llan Alter	
16:03	16:21	Hydraulic Systems design in Aircrafts	Gal Rada	Collaborative Automation – Solutions within Your Reach	Ziv Sadeh	
16:21	16:39	Hydraulic Systems Simulation	Arie Perry	Development of Training Program for Technical Data Package (TDP) Preparation in System Development and Manufacturing	Daniel Naor	
16:39	16:57	Life expectancy in pneumatic elements	Moshe Kelman	Topology optimization 1 <sup>st</sup> step in the design process	Yosef Yoely	
16:57	17:15	Special Applications in Hydrostatic Motivation	Harel Feig			
17:15	17:33	Pumps Field Efficiency Testing Automation	Lev Nelik			
8:00	9:00	Registration	10 October 20	18	<u> </u>	
	9.00	Registration				
9:00	9:40	Plenary Lecture: The Road to Iron Dome	Uzi Rubin			
9:40	10:20	Plenary Lecture: How Engineering Tools Can Revolutionize Medical Outcomes	Ephraim Gutmark			
10:20	11:00	Plenary Lecture: Bulk Solids Handling Technology: An Australian Perspective	Mark Jones			
11:00	11:30	Coffee break		Coffee break		
		Dynamical systems (D5) - Chair: Oriel Shoshani		Tribology (D6) - ISRATRIB Symposium - Chair: Yuri Kligerman		
11:30	11:48	The Concentric Winder, A Novel Origami Dynamic Mechanism	Saadya Sternberg	Contact mechanics of coated surfaces	Izhak Etsion *	
11:48	12:06	Nonlinear interaction between resonators with different decay rates	Oriel Shoshani			
12:06	12:24	Determining the fatigue damage potential due to vibration loads	Itay Shafir	A universal model for the static friction coefficient in a full stick elastic-plastic coated spherical contact	Zhou Chen	
12:24	12:42	Surface waves in an elastic layer of finite thickness	Eli Benvenisty	Electrical resistance model of a bi-layer coated spherical contact	Oleg Korchevnik	
12:42	13:00	Stress-induced anisotropy increases the range of force transmission in fibrous networks	Shahar Goren	The relationship of normal and tangential contact stiffness with normal and tangential load for ground Ti-6Al4-V interfaces	Kurien Parel	
13:00	14:00	Lunch		Lunch		
		Military systems - MERKAVA (E5) - Chair: Yitzha	k Hochmann	Tribology (E6) - ISRATRIB Symposium - Chair: Morel Groper		
14:00 14:18	14:18 14:36	The Rise of Hybrid Systems in Military Vehicles Eitan 8x8 APC - Suspension design methodology	Moshi Broner Max Linshits	Biolubrication: How nature does it	Jacob Klein *	
14:36	14:54	Enemy detection & Situation awareness in closed hatches	Eran Schwarz	Numerical simulation of sliding inception in biomimetic wall- shaped adhesive microstructure	Yuri Kligerman	
14:54	15:12	Advanced CAD modeling using VR enviroment	Uriel Hochmann	Simultaneous Shot Peening for Friction Reduction in Piston Ring Liner	Haytam Kasem	
15:12	15:30			Development of device for low-temperature and high vacuum. Some examples of epoxy composite tests	Alexey Moshkovich	
15:30	15:45	Coffee break		Coffee break		
		Military systems - LAND SYSTEMS (F5) - Chair: Yitzhak Hochmann		Tribology (F6) - ISRATRIB Symposium - Chair: Haytam Kasem		
15:45	16:03	Panther – Developing the New Armored Border Patrol Vehicle	Rodrigo Gueler	The analysis of the surface layers of Silver, Copper, Nickel and Aluminum after friction in boundary lubrication	Lev Rapoport *	
16:03	16:21	Development of New Command Armored Personnel Carrier - Ofek	Atai Natan			
16:21 16:39	16:39 16:57	Orex Autonomous Vehicle Research Platform (AVRP) Precise Ammunition Systems Revolution in IDF	Noam Shapira Michael Milanovich	Reduction of friction by surface textured seals Experimental study of a water lubricated journal bearing	Matthias Wangenheim Avishai Dov	
16:57	17:15	Optimization of the oil pump plunger surface texture for friction Inal Cohen				
				and wear reduction in contact with pump barrel  Storage ageing of grease in sealed-for-life rolling bearings  Yuri Kliger		

		Deliavioi			
12:24	12:42				
12:42	13:00				
13:00	14:00		Lunch		
		Advance	d effects in optical systems (E7) - CI	nair: Avi Niv	
		Measurements of Laser-d	amage-threshold of optical materials,		
14:00	14:18		threshold, nanotechnology based	Moshe Oron *	
14:18	14:36				
14:36	14:54	Thermo-Optical Nonlinear	ity of a Single Metallic Nanoparticle	leng-Wai Un	
14:54	15:12	Wound healing assay of a photothermal gold nanopa	cell monolayer labeled with articles	Shir Cohen-Maslaton	
15:12	15:30	Nonlinear optics of metalli	ic nanoparticles and related subjects	Avi Niv	
15:30	15:45		Coffee break		
		Advanced ef	fects in optical systems (F7) - Chair:	Yonatan Sivan	
15:45	16:03		Stress Induced Effects on the Enhance eduction in AuNPs/VO2 Hybrid Structur		
16:03	16:21	Training artificial neural neural neural neural neural neural neural voluments	etwork for optimization of d smart window performance	lgal Balin	
16:21	16:39	Efficient Light Trapping wi	ith Light Funnel arrays	Ashish Prajapati	
16:39	16:57	Structural integity monitori fiber optic distributed	ing of the wings of a UAV fleet using	Iddo Kressel	
16:57	17:15				
17:15	17:33				
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		DUS	<b>70</b> 4 50		
		יומיים	יום אחד		
_		回 490	回 380		
		回 490	回 380	יות מתקדמות	ו/או האיגוד הישראלי לתע <i>ו</i>

Uzi Rubin

Mark Jones

Israel Feldman

Chanan Gabay

Hillel Bar-Gera

Ephraim Gutmark

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\*המחירים לא כוללים מע"מ

בשיתוף: 





回 490 回 520

回 250





回 410

回 150









אחר/ת

סטודנט/ית











