*There may be changes late

*There may be changes later

MOST Conference

Promoting technological innovations in engineering science THE FUTURE IS HERE





מלון דן פנורמה תל אביב | בשעות 16:30–8:30

יום ראשון | 18/06/2017 כ"ד בסיון תשע"ז

טופס ההרשמה בתחתית העמוד

08:30-09:30 Registration 09:30-09:40 **Greetings and Opening Remarks**

Mr. Peretz Vazan, Director General at the Ministry of Science and Technology 09:40-09:50

The mission of the Ministry of Science and Technology Dr. Andrey Broisman, Director of Applied Science and Engineering,

Chair: Prof. Tal Dvir, Tel Aviv University

Ministry of Science and Technology

The key speech Prof. Michael Levitt, Stanford University (Nobel Prize Laureate)

10:30-11:00 Coffee break + Posters

Biotechnology

11:00

Session 1

11:40

12:00

14:20

14:40

15:00-15:30

Session 3

15:30

15:50

Auditorium 1

09:50-10:30

11:20	Tissue Engineered Heart Construct: Bridging the Gap between
	Fr. and In Vivo Machanian Effects Towards Clinical Ashiovemen

Engineering Organs and Body Parts

Prof. Tal Dvir, Tel Aviv University

Prof. Avi Shroeder, Technion

Prof. David Elad, Tel Aviv University

Ex- and In Vivo Mechanical Effects Towards Clinical Achievements Prof. Marcelle Machluf, Technion

Converting GsXynB2 from hydrolase to glycosynthase

Prof. Gil Shoham, Hebrew University of Jerusalem Hybrid polymer/lipid drug delivery systems for treating oral cancers

12:20 Discovery and development of new immunosuppressant by computational and biophysical tools

Dr. Maayan Gal, MIGAL - Galilee Technology Center **Analysis of Uterine Peristalsis in Non-Pregnant Mice**

13:00-14:00 **Lunch** + **Posters**

Chair: Prof. Daphne Weihs, Technion Session 2 Bio materials 14:00 Investigation of the influences of micro/nano patterning of gel surface on

> cancer cell interactions Prof. Daphne Weihs, Technion

Prof. Shai Rahimipour, Bar-Ilan University

tumor ablation to suppress ablation-induced tumorigenesis Prof. Nahum Goldberg, Hadassah Medical Center

> Bio materials Chair: Prof. Hadas Mamane, Tel Aviv University

How to follow or regulated bi-potential mesenchymal cell fate?

Treatment of hospital wastewater using hybrid MBR-modified AOP technology

Multifunctional Theranostic Nanoparticles for Alzheimer's Disease

Non-surgical cancer therapy for the 3rd age: Nanoparticle siRNA with

Prof. Hadas Mamane, Tel Aviv University 16:10 Mucoadhesive drug delivery carriers

Prof. Dafna Benayahu, Tel Aviv University

Coffee break + Posters

Prof. Havazelet Bianco-Peled, Technion **Auditorium 2**

Chair: Prof. Avi Domb, Hebrew University of Jerusalem 11:00 Development of portable and laboratory tools for improving the manual skills and performance of undergraduate dental students

Prof. Tamar Brosh, Tel Aviv University

Medical Devices

and Waiting Times

Detection of Cancer

Medical Devices

Medical Devices

Robotics

Dr. Galit Yom Tov, Technion

11:20

11:40

12:00

12:20

12:40

Session 5

14:00

14:20

14:40

Session 6

15:30

15:50

16:10

Session 7

11:00

11:40

12:00

12:20

12:40

13:00-14:00

Session 8

15:00-15:30

Session 4

for Vasoconstriction		
Dr Yossi Mandel Bar-Ilan University		

Biodegradable disposable medical syringes and tubes

The Impact of Delay Announcements on Hospital Network Coordination

Investigation of Multimodal Imaging Methods of Nanoparticles for Early

Chair: Prof. Michael Margaliot, Tel Aviv University

Chair: Prof. Avishay Eyal, Tel Aviv University

Multiplexing of fiber-optic ultrasound sensors via optical frequency

Small, sensitive, portable – towards next-generation arrayed biosensors

Optical Microfiber Biosensor Enhanced with Photothermal Interferometric

Chair: Prof. Zvi Shiller, Ariel University

High-Speed Autonomous Robot Navigation in Dynamic Urban Environments

Development of novel topologies of parallel robots and characterization of

Decentralized Multi-Robot Belief Space Planning in Unknown Environments

Our Eyes Beneath The Sea – a Holistic AUV Based Framework for Visual

Follow me.... Proxemics and responsiveness for following tasks in adaptive

Chair: Prof. Lev Shemer, Tel Aviv University

Endovascular Electrodes for Electrical Stimulation of Blood Vessels

Prof. Avi Domb, Hebrew University of Jerusalem

Prof. Haim Azari, Technion Ferritin nanocage engineering via magnetotactic bacteria proteins toward in

vivo auto-produced MRI contrast agent

Prof. Raz Zarivach, Ben Gurion University of the Negev 13:00-14:00 Lunch + Posters

> A Generic Platform for Optimized Expression of Bio-Engineered Genes in Micro-Algae

Prof. Michael Margaliot, Tel Aviv University

The Ribosome Flow Model: Theory and Applications

Prof. Tamir Tuller, Tel Aviv University

Visible Bioorganic Nanodots

Coffee break + Posters 15:00-15:30

Prof. Gil Rosenman, Tel Aviv University

domain reflectometry (OFDR) Prof. Avishay Eyal, Tel Aviv University

Imaging of Plasmonic Nanoparticles

Prof. Hedva Spitzer, Tel Aviv University

Prof. Yoram Reich, Tel Aviv University

Prof. Natan Tzvi Shaked, Tel Aviv University **Auditorium 3**

Prof. Levi Gheber, Ben Gurion University of the Negev

Prof. Zvi Shiller, Ariel University 11:20 Bio Sensory (Vision +Sonar) inspired for Robot localization and mapping

via Identification and Efficient Re-Evaluation of Impacted Paths Prof. Vadim Indelman, Technion

assistive robotics

Mechanical eng

their singular configurations

Seafloor Surveys – the Platform Prof. Morel Groper, Haifa University

> Prof. Tal Oron-Gilad, Ben Gurion University of the Negev **Lunch + Posters**

14:00 Wet Power: harnessing energy from evaporation Prof. Yehuda Agnon, Technion

Relation to appearance of rogue waves Prof. Lev Shemer, Tel Aviv University

Prof. Izhak Bucher, Technion

Mechanical eng Chair: Prof. Haim Abramovich, Technion

Dr. Yavor Yinon, Technion Additive manufacturing of metallic parts with improved physical and 15:50

mechanical properties for applications under severe conditions Prof. Haim Abramovich, Technion

16:10 A novel soil remediation based on a combination of a recycled extraction solution and Liquid-Liquid Critical Solution Mixtures

14:20 SPATIAL EVOLUTION OF AN INITIALLY NARROW-BANDED WAVE TRAIN: Modeling and control of near-field acoustically levitated and transported objects 14:40

15:30 Aluminum-Water Green Propellant for On Board Propulsion Systems

Coffee break + Posters

Dr. Zvi Ludmer, Hebrew University