

DETAILED PROGRAM

Sunday, October 19, 2014	
8:30-9:30	Arrival and Registration
9:30-9:45	OPENING (<i>White Moon hall</i>) Prof. Arie Maharshak , President, ORT Braude College
9:45-10:35	PLENARY I (<i>White Moon hall</i>) Prof. Uri Sivan , <i>Russell Berrie Nanotechnology Institute, Technion--- Israel Institute of Technology</i> Electrically controlled molecular recognition harnessed to control cellular response – a step towards seamless fusion of biology with electronics
10:35-11:00	Coffee Break
11:00-11:50	PLENARY II (<i>White Moon hall</i>) Prof. Giora Mikenberg , <i>Weizmann Institute of Science</i> Israeli participation in the construction of the largest microscope in the world, the LHC
12:00-13:00	SESSION A1: Software Engineering (<i>White Moon hall</i>) Chair: Benjamin Mounits
12:00-12:20	Monotonicity, revenue equivalence and budgets <i>Ahuva Mu'alem</i>
12:20-12:40	Differences in phase synchrony of brain regions between regular and dyslexic readers <i>Alex Frid</i>
12:40-13:00	A systematic approach to automatic generation of DRC and LVS runsets and test cases to check them <i>Elena Ravve</i>
12:00-13:00	SESSION B1: Mechanical Engineering (<i>Ofek hall</i>) Chair: Michael Koenig
12:00-12:20	The ATLAS platform <i>Avi Weiss, , R.G. Langlois, M.J.D. Hayes</i>
12:20-12:40	Prediction of environmental stress cracking in polycarbonate by molecular modelling <i>D. Alperstein, D. Knani, N. Borchmann, M. Spekowitz, C. Hopmann</i>
12:40-13:00	Locust-inspired jumping robot – TAUB <i>Valentin Zaytsev, Uri Ben-Hanan, Avi Weiss, Gabor Kosa, Amir Ayali</i>

12:00-13:00	SESSION C1: Physics and Optical Engineering & Mathematics (<i>Shavit hall</i>) Chair: Eli Raz
12:00-12:20	High energy neutrinos in the era of Ice Cube and ARA <i>Dafne Guetta</i>
12:20-12:40	The fields created by accelerating relativistic charged particles: an actual time approach <i>Ofer Eyal</i>
12:40-13:00	On the mathematical framework of classical mechanics <i>Gabi Ben-Simon</i>
12:00-13:00	SESSION D1: Industrial Engineering and Management (<i>business lounge</i>) Chair: Yariv N. Marmor
12:00-12:20	A note on repair systems with exchangeable items and the longest queue mechanism <i>Rachel Ravid</i>
12:20-12:40	Robust capacity planning under service constraints <i>Hussein Naseraldin, Opher Baron</i>
12:40-13:00	Developing an optimal appointment scheduling for systems with non-flexible standby time under pre-determined service levels <i>Illana Bendavid, Yariv N. Marmor, Boris Shnits</i>
13:00-14:40	Lunch
14:40-15:40	SESSION A2: Software Engineering & Mathematics (<i>White Moon hall</i>) Chair: Mati Golani
14:40-15:00	On the construction of codes from graphs <i>Beniamin Mounits</i>
15:00-15:20	Application of the electrical network model for protein structure prediction <i>Zakharia Frenkel, Reshma Nibhani</i>
15:20-15:40	Scheduling selfish jobs on multidimensional parallel machines <i>Leah Epstein, Elena Kleiman</i>
14:40-15:20	SESSION B2: Industrial Engineering and Management (<i>Ofek hall</i>) Chair: Nirit Gavish
14:40-15:00	Dual effects of subsidiary and parent organizations' human resource practices on employee responses <i>Hilla Peretz, Yitzhak Fried</i>
15:00-15:20	The effect of feedback on puzzle completion task training <i>Nirit Gavish, Hagit Krisher, Guy Madar</i>

14:40-15:40	SESSION C2: Biotechnology Engineering (<i>Shavit hall</i>) Chair: Sammar Marei
14:40-15:00	Bio-inspired implants for the treatment of restenosis <i>M. Alagem, E. Kivovich, I. Tzchori, N. Lanir⁴, M. Falah, M. Flugelman, U. Dinnar, R. Beyar, N. Lotan, S. Sivan</i>
15:00-15:20	Preparation and characterization of citrate stabilized copper oxide nanoparticles <i>Mirit Shoan, Iris S. Weitz</i>
15:20-15:40	Impact of oxidative stress on cognitive dysfunction in non-alcoholic fatty liver, with or without metabolic syndrome <i>Maria Grozovski, Elena Levanov, Nimer Assy</i>
14:40-15:40	SESSION D2: Teaching and General Studies (<i>business lounge</i>) Chair: Miri Shacham
14:40-15:00	Changes in attitudes to prisoners of war as expressions of cultural change in Jewish society in Israel <i>Lea Teicher</i>
15:00-15:20	Active learning vs. traditional learning in the view of lecturers and students <i>Rivka Weiser-Biton, Miri Shacham, David Pundak</i>
15:20-15:40	Transforming engineers into math teachers: students' and graduates' perceptions of the program <i>Ira Rave, Orna Muller</i>
15:40-16:00	Coffee Break
16:00-17:00	SESSION A3: Software Engineering (<i>White Moon hall</i>) Chair: Zakharia Frenkel
16:00-16:20	Pain detection - a fuzzy CBR approach <i>Mati Golani, Simon van Rysewyk</i>
16:20-16:40	Mining EEG results <i>Nissan Levto</i>
16:40-17:00	Improved topic-adapted word prediction <i>Ofek Ron, Orly Yahalom</i>

16:00-17:00	SESSION B3: Mathematics & Industrial Engineering and Management (<i>Ofek hall</i>) Chair: Shuki Dror
16:00-16:20	Solution of a singular zero-sum linear-quadratic differential game: A cheap control approach <i>Oleg Kelis, Valery Y. Glizer</i>
16:20-16:40	Stochastic versions of population-dynamics models via 'balls-bins' techniques <i>Tamar Gadrich, Haggai Katriel</i>
16:40-17:00	Kinetic exchange models <i>Haggai Katriel</i>
16:00-17:00	SESSION C3: Electrical and Electronic Engineering & Physics and Optical Engineering (<i>Shavit hall</i>) Chair: Samuel Kosolapov
16:00-16:20	Feasibility of a shadow multi-camera intrusion detector <i>Samuel Kosolapov</i>
16:20-16:40	Compact meta-material antennas for communication systems <i>Albert Sabban</i>
16:40-17:00	Strong- versus weak-coupling paradigms for cuprate superconductivity <i>Shahaf Asban, Meni Shay, Muntaser Naamneh, Tal Kirzhner, Amit Keren</i>
16:00-17:00	SESSION D3: Biotechnology Engineering (<i>business lounge</i>) Chair: Ilana Kepten
16:00-16:20	Let there be light: from photosynthesis via membrane proteome design to curing blindness <i>Ilan Samish, Anwar Akaria, William F. DeGrado, Arie Markovich, Avigdor Scherz</i>
16:20-16:40	Impact of morning sport activity on achievement, academic self-efficacy, adjustment to college, and physical fitness <i>Michal Maoz, Hagit Krisher, Yossi Har Even and Idit Golani</i>
16:40-17:00	The antioxydative properties of stevia rebaudiana <i>Rivka Weiser-Biton, Ronit Herscu-Kluska</i>
17:00-18:30	Leisure Time
18:30-19:30	Dinner
19:45--	Social Evening

Monday, October 20, 2014	
7:00-9:20	Breakfast
9:30-10:20	PLENARY III (<i>White Moon hall</i>) Prof. Abraham Katzir , <i>Tel Aviv University</i> Infrared transmitting silver halide fibers and their applications
10:20-11:10	PLENARY IV (<i>White Moon hall</i>) Dr. Sinaia Netanyahu , <i>Ministry of Environmental Protection</i> Energy production from biomass, fuel production from waste, and fuel alternatives for transportation
11:10-11:50	Hotel Check-out and Coffee Break
11:50-12:50	SESSION E1: Industrial Engineering and Management & Software Engineering (<i>White Moon hall</i>) Chair: Illana Bendavid
11:50-12:10	Software architecture for an adaptable framework for a real-time executive <i>Alex Frid, Avi Soffer</i>
12:10-12:30	The due-date assignment problem in scheduling: a robust optimization approach <i>Chen Kaminer, Hussein Naserladin, Liron Yedidsion</i>
12:30-12:50	Analysis of customer behavior in cellular networks <i>Zeev Volkovich, Katerina Korenblat, Elena Ravve, Thomas Couronne, Valery Kirzner</i>
11:50-12:50	SESSION F1: Mechanical Engineering & Mathematics (<i>Ofek hall</i>) Chair: Avi Weiss
11:50-12:10	Evolutionary and co-evolutionary algorithms for solving multi objective games <i>Erella Eisenstadt-Matalon, Gideon Avigad, Amiram Moshaiov</i>
12:10-12:30	Periodic electromechanical buckling and post-buckling patterns of micro spherical thin shells. <i>Samy Abu-Salih</i>
12:30-12:50	Projection methods for feasibility problems <i>Aviv Gibali</i>

11:50-12:50	SESSION G1: Physics and Optical Engineering & Electrical and Electronic Engineering (<i>Shavit hall</i>) Chair: Nathan Netzer
11:50-12:10	Spin angular momentum and tunable polarization in high-harmonic generation <i>Avner Fleischer, Ofer Kfir, Tzvi Diskin, Pavel Sidorenko, Oren Cohen</i>
12:10-12:30	Nano-resonators for specific and sensitive vapor sensing <i>Yoav Linzon, Stella Lulinsky, Slava Krylov, Bojan Ilic</i>
12:30-12:50	Inversion-coefficient of the low-voltage, low-power MOSFET submicron technology <i>Radu Florescu</i>
11:50-12:50	SESSION H1: Mathematics (<i>business lounge</i>) Chair: Valery Glizer
11:50-12:10	Functional equations for local zeta functions of groups <i>Mark N. Berman, Benjamin Klopsch</i>
12:10-12:30	A semigroup approach to deriving inequalities for holomorphic self-mappings of the unit disk <i>Levenshtein Marina, David Shoikhet</i>
12:30-12:50	Definitions are important: the case of linear algebra <i>Ludmila Shvartsman, Abraham Berman</i>
13:00-14:20	Lunch
14:20-15:20	SESSION E2: Software Engineering & Mechanical Engineering (<i>White Moon hall</i>) Chair: Avi Soffer
14:20-14:40	On stable states of GMM clustering <i>Dvora Toledano-Kitai, Zeev Volkovich</i>
14:40-15:00	Wavelet based image segmentation <i>Renata Avros, Avichay Ben Naim, Evgeny Cherniavsky, Zeev Volkovich</i>
15:00-15:20	Mechanical Cognitivization <i>Gideon Avigad, Avi Weiss</i>
14:20-15:20	SESSION F2: Mathematics & Industrial Engineering and Management (<i>Ofek hall</i>) Chair: Boris Shnits
14:20-14:40	Value-oriented thinking in designing and executing industrial product-service system operations <i>Reuven Karni, Shuki Dror</i>
14:40-15:00	A possible approach to one-dimensional latent X-ability testing and evaluation <i>Vladimir Turetsky, Emil Bashkansky</i>
15:00-15:20	Scheduling Under Uncertainty <i>Miri Gilenson, Hussein Naseraldin, Liron Yedidsion</i>

14:20-15:20	SESSION G2: Teaching and General Studies & Physics and Optical Engineering (<i>Shavit hall</i>) Chair: Orna Muller
14:20-14:40	Engineers as Second-Career Teachers during their first year in school <i>Orna Muller, Yael Furman Shaharabani, Miri Shacham</i>
14:40-15:00	School – Industry collaboration: who needs to take responsibility <i>Judith Abrahami</i>
15:00-15:20	Active learning of Physics 1M <i>Jorge Berger</i>
14:20-15:20	SESSION H2: Biotechnology Engineering (<i>business lounge</i>) Chair: Roza Azhari
14:20-14:40	Disruption of the ErbB signaling in adolescence increases striatal dopamine levels and affects learning and hedonic-like behavior in the adult mouse <i>Idit Golani, Hagar Tadmor, Andres Buonanno, Ilana Kremer, Alon Shamir</i>
14:40-15:00	The effect of anaerobic biomass drying and exposure to air on their recovery and evolution <i>Nedal Massalha, Asher Brenner, Chaim Sheindorf, Isam Sabbah</i>
15:00-15:20	Efficacy of a small molecule inhibitor of protein binding to glycosaminoglycans in animal models of inflammatory disease <i>Nicholas Harris, Juraj Koppel, Paul Gregor</i>
15:20-15:40	Coffee Break
15:40-16:40	SESSION E3: Software Engineering (<i>White Moon hall</i>) Chair: Dvora Toledano-Kitai
15:40-16:00	A new scheduling approach to exploit the power of the reconfigurable mesh to accelerate program performance <i>Esti Stein, Yosi Ben-Asher</i>
16:00-16:20	Reconstruction of the ancient Jewish historical documents with the help of network analysis <i>Zakharia Frenkel, Adiel Ben-Shalom, Elena Ravve, Roni Shweka, Zeev Volkovich, Yaacov Choueka</i>
16:20-16:40	Stochastic Model for Medical Image Segmentation <i>Mingyue Ding, Zeev Barzily, Zeev Volkovich</i>
15:40-16:40	SESSION F3: Mechanical Engineering (<i>Ofek hall</i>) Chair: Samy Abu-Salih
15:40-16:00	Hybrid solar / heat pump hot domestic water production <i>Michael Koenig</i>
16:00-16:20	Plastic deformation processes and structure instability of base material and friction stir welded AZ31b-H24 magnesium alloy <i>Michael Regev, Stefano Spigarelli</i>
16:20-16:40	Non-Fourier heat conduction analysis with application to vibration drilling in composite materials <i>Samy Abu-Salih, Kamal Abu-Rezik, Uri Ben Hanan, Rafi Wertheim</i>

15:40-16:40	SESSION G3: Mathematics & Physics and Optical Engineering (<i>Shavit hall</i>) Chair: Vladimir Turetsky
15:40-16:00	On the Brill-Cantor theorem and its relation to the celebrated Yamabe problem <i>Lavi Karp</i>
16:00-16:20	Using linear fractional relations in Operator Theory in indefinite spaces <i>Victor Khatskevich</i>
16:20-16:40	Critical parameter in the phase diagram of a 1D superconducting wire that carries a fixed current <i>Shimshon Kallush, Jorge Berger</i>
15:40-16:40	SESSION H3: Teaching and General Studies (<i>business lounge</i>) Chair: Elena Trotskovsky
15:40-16:00	Internship project: design in industry vs. research in academia – A case study <i>Elena Trotskovsky, Nissim Sabag</i>
16:00-16:20	Learning and accreditation for MOOC <i>David Pundak, Nissim Sabag, Elena Trotskovsky</i>
16:20-16:40	Development of critical thinking in academic studies <i>David Pundak, Rivka Weiser Biton, Miri Shaham</i>
16:50-17:25	CLOSING SESSION (<i>White Moon hall</i>) Project <i>From the Heart</i> ---engineers on behalf of disabled people <i>Noga Shalit</i> Prof. Zeev Barzily , incoming Vice President for Academic Affairs, ORT Braude College