

CONFERENCE PROGRAM:

- 08:15 - 08:45 **Registration and Coffee**
- 08:45 - 09:00 **Welcome from Conference Chairs**
- 09:00 - 09:45 **Keynote Lecture 1**
Examples of High-Power Electromagnetic (HPEM) Systems and some Applications of Short Pulse Technologies
David Giri, Fellow IEEE, University of New Mexico, New Mexico, USA
- 09:45- 10:30 **Keynote Lecture 2**
Comparison Between High Altitude EMP and High Power Electromagnetic Effects on Equipment and Systems
Michel Ianoz, Fellow IEEE, EPFL, Lausanne, Switzerland
- 10:30 - 11:10 **MiL Std CS 116 Immunity Test Implications and Mitigation Methods**
Oren Hartal, Consultant
- 11:10 - 11:30 **Coffee Break; Visit of the Exhibition Area**
- 11:30 - 12:00 **Practice in EMC MIL-STD-461 Testing**
Isahar Gabay, Elta, Ashdod
- 12:00 - 12:30 **Antenna Field Distribution Effects on EMC Radiating Test Accuracy and Economics**
Anatoly Tsaliovich, Consultant
Jacob Gavan, Fellow IEEE, HIT, Holon and SCE, Ashdod
Motti Haridim, SM IEEE, HIT, Holon
- 12:30 - 13:00 **Millimeter Waves - New Spectrum For The 5Th Generation Of The Cellular Communications**
Yosef Pinhasi, Liat Rapaport, Ariel Etinger, Gad A. Pinhasi, Ariel University, Ariel
- 13:00 – 14:00 **Lunch, Visit of the Exhibition Area and Poster Session**
- 13:00 – 14:00 **Posters session**
- 14:00 – 16:10 **Parallel Sessions (A, B, C, and D)**
- 16:10 – 16:30 **Coffee break and visit of the exhibition area**
- 16:30 – 17:00 **Discussion Panel Forum and Conference Conclusions**

SESSION A - EMC

Building 8, Auditorium 400

Chair: **Shlomi Zigdon**

- 14:00-14:25 ***EMC and Signal Integrity Relationship***
Shlomi Zigdon, iTech-college, Herzliya
- 14:25-14:50 ***No more CISPR 22, New EMC Requirements***
Moshe Henig Dipl. Ing, Consultant
- 14:50-15:15 ***EMC Simulation of Automotive Ethernet***
Zeev Iluz, ADCOM, Ramat-Gan
- 15:15-15:40 ***EMC for Machinery SRP/CS (Safety-Related Part of a Control System)***
Raanan Baruch, App-tech, Shoham
- 15:40-16:05 ***Comparison of Methods for Evaluating Electromagnetic Hazards to Cable Connected EED Electro Explosive Devices***
Avi Cohen, HIT, Holon
Oren Hartal, Consultant
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SESSION B - Health Effects

Building 8, Room 300

Chair: **Stelian Ghelberg**

- 14:00-14:25 ***Methods to Mitigate Magnetic Fields***
Stelian Gelberg, Noise and Radiation Abatement Dept., Ministry of Environmental Protection
- 14:25-14:50 ***Magnetic Field Density (MFD) and Radiation Emissions from Energy Renewal Systems***
Moshe Netzer, SM IEEE, Consultant
- 14:50-15:15 ***ELF-MF Exposure, Actual And Perceived, And Non-Specific Health Symptoms Among Employees In A Large Office Building In Tel Aviv***
Liran Raz Steinkrycer, Haifa University, Haifa
- 15:15-15:40 ***The Real Exposure to Cellular Radiation - is the SAR Rating Fair?***
Paul Ben-Ishai, Ariel University, Ariel

SESSION C - RF and Optical Communications

Building 8, Room 301

Chair: Asher Yahalom

- 14:00-14:25 ***Power-Domain Non-Orthogonal Multiple Access for 5G Optical Communications***
Eitan Omiyi, Uri Mahlab, HIT, Holon
- 14:25-14:50 ***Improved Mode Model With Three Dielectric Layers In The Cross Section Of The Helical Waveguide***
Zion Menachem, Department of Electrical Engineering, Sami Shamoon College of Engineering, Beer Sheva
- 14:50-15:15 ***Short Circuit Fault Detection in Two Wire Transmission Line***
Asher Yahalom, Ariel University, Ariel
- 15:15-15:40 ***Coherence Distance Metric for Optical Wireless Communication***
Dima Bykhovsky, Department of Electrical Engineering, Sami Shamoon College of Engineering, Beer Sheva
- 15:40-16:05 ***WiGig Mobile Devices***
Eyal Golberger, Intel, Petah-Tikva
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SESSION D - Antennas and Wireless Power Transmission (WPT)

Building 8, Room 310

Chair: Haim Matzner

- 14:00-14:25 ***Long Distance Wireless Power Transmission: Past, Present and Future***
Jacob Gavan, Fellow IEEE, HIT, Holon and SCE, Ashdod
Motti Haridim, SM IEEE, HIT, Holon
Anatoly Tsaliovich, Consultant
- 14:25-14:50 ***Indoor Geolocation, Battery-Less Tags, Wireless Power Transfer, Ultra Wideband***
Patrick Chan, UWINLOC, Colomiers, France
- 14:50-15:15 ***Recent Horn Antenna Projects of Students in HIT***
Haim Matzner, HIT, Holon
- 15:15-15:40 ***Bessel Beam Generation Using Radial-Line Slot Antennas***
Hovhannes Haroyan, Yerevan State University, Yerevan, Armenia
- 15:40-16:05 ***Miniaturized Antennas Design for Communication, Wearable and Biomedical Applications***
Vladimir Vulfin, EM Infinity and Ben-Gurion University of Negev, Beer Sheva
Reuven Shavit, Ben-Gurion University of Negev, Beer Sheva