The Israel Society for Astrobiology and the Origin of Life (ILASOL)

31st annual meeting April 11th, 2018
Rothberg Hall, Safra Campus, The Hebrew University of Jerusalem

Registration: https://goo.gl/forms/dk5vIFttPvaJjtt92
ILASOL: http://www.iyar.org.il/about-15.html * This flyer serves as a car entrance to campus

Session 1: Opening   Chair: Amri Wandel   9:00-10:40
Welcome address: Jay Fineberg (Dean of Faculty of Sciences, HU) 5
Avshalom Elitzur, (Chairman ILASOL, Iyar & Chapman U) 5
Keynote Address: The Unifying Power of Astrobiology – Nader Haghighipour (U of Hawaii; President of IAU Division F: Planetary Systems and Bioastronomy) 60
Towards filling the mass-radius diagram with the smallest planets – Aviv Ofir (WIS) 30

Coffee break 10:40-11:05

Session 2: Astrobiology   Chair: Avshalom Elitzur   11:05-13:00
The Potential for Life on tidally-locked planets – Joseph Gale, Amri Wandel (HU) 25
Climate and Biohabitability of Red Dwarf planets – Amri Wandel (HU) 25
Exobiology: what we might find out there – Maya Barzilay (HU) 20
Titan – a lab for alien astrobiology – Tair Plotnik (HU) 20
Lithopanspermia revisited after Oumuamua – Noah Brosch (TAU) 25

Lunch break 13:00-14:15 (a table will be reserved for us at Bet Belgia)

Session 3: Biochemistry of Life   Chair: Gonen Ashkenasy   14:15-16:15
And yet GARD evolves! A definitive case for metabolism-based origin via mutually catalytic networks – Doron Lancet (WIS) 25
Life overnight? Why other biospheres are likely to have evolved much faster – Avshalom Elitzur (Iyar & Chapman U), Boaz Tamir (Iyar) & Eliahu Cohen (Ottawa U & Iyar) 25
Predator-Prey entanglement – Avishy Carmi (BGU & Iyar) 25
Non enzymatic replications & autocatalytic sets – Itay Fayerverker & Tal Mor (Tehnion) 25
Towards a synthetic genetic polymer – Noam Prywes (WIS) 20

Coffee break 16:15-16:30

Session 4: Origin of Life   Chair: Tal Mor   16:30-18:15
Non-enzymatic replication of sequences containing four letters – Noam Prywes (WIS) 20
Nucleic-acid-peptide Chimera in the Early Chemical Evolution – Agata Chotera & Gonen Ashkenasy (BGU) 25
Multistationarity in Catalytic Reaction Networks – Nathaniel Wagner (BGU) 25
From the contemporary ribosome towards the origin of life – Ilana Agmon (Technion) 25

Closing remarks – Doron Lancet (WIS) 10