



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

30th annual meeting March 16th, 2017

Levin Hall, Safra Campus, The Hebrew University of Jerusalem

Registration (free): ilasolw@weizmann.ac.il * This flyer serves as car entrance to campus

Opening Chair: Doron Lancet. 9:00-10:30

Welcome address (5)

In memory of Noam Lahav – Avshalom Elitzur (chairman ILASOL) (5)

In memory: Akiva Bar-Nun. The quest for life on exoplanets – A. Wandel

Keynote Address: The Emergence and Evolution of Life Beyond Physics – Stuart Kaufman (U of Clagary)(60)

Astrobiology 1 Chair: Avshalom Elitzur. 11:00-12:30

From Cosmology to life – Avishai Dekel (HU) (30)

Major extinctions and Gamma ray bursts – Tsvi Piran (HU) (30)

Conditions for liquid water on M-dwarf planets – Amri Wandel (HU)(30)

Lunch break 12:30-13:30 (light lunch will be served at Levin entrance)

Astrobiology 2 Chair: Amri Wandel. 13:30-14:30

Potential for Life on Trappist-1 planets – Joseph Gale, Amri Wandel (HU) (30)

In favor of our uniqueness – Yakir Aharonov (TAU,Iyar), Eliahu Cohen* (Bristol U, Iyar), Tomer Landsberger (TAU), Tomer Shushi (BGU) (30)

Biochemistry of Life Chair: Tal Mor. 14:30-15:50

Hypothesis: ncRNA - cellular activity controller? – Sohan Jheeta (NoR HGT & LUCA)(40)

Metabolic GARD – replicating mutually catalytic network of lipid-anchored metabolites and cofactors” – Doron Lancet (WIS) (30)

The Ski-Lift: A unique thermodynamic Pathway with biological ubiquity – Avshalom Elitzur (Iyar), Eliahu Cohen (Bristol U, Iyar) (30)

Origin of Life Chair: Tomer Shushi. 16:10-18:10

Evaluation of homochirality as an indicator for extraterrestrial life – David Avnir (HU) (30)

Chemical evolution of functional peptides and proteins – Gonen Ashkenasy (BGU) (30)

Bistability, bifurcation and multistability in prototype models for understanding living systems and the origin of life – Nathaniel Wagner (BGU) (30)

Computing by nowhere increasing complexity – Avisvy Carmi (BGU) (30)

Closing remarks – Avshalom Elitzur, chairman ILASOL

