



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: **Joseph Gale** (5)

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

The quest for life on exoplanets. Memory: **Akiva Bar-Nun**. **A. Wandel** (8)

Keynote Address: The Emergence and Evolution of Life Beyond Physics – **Stuart Kauffman** (U of Calgary)(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 – **Avishey Carmi** (BGU) (30)

Closing remarks – **Avshalom Elitzur**, chairman ILASOL

