





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

27th annual meeting December 1st, 2013 09:00 Botnar auditorium, Weizmann Institute of Science

08:45-09:00	Breakfast & Gathering	
Session 1 — Astrobiology		
09:00-09:15	Gonen Ashkenasy (BGU) Opening remarks	
09:15-09:40	Amri Wandel (HUJI) How frequent is extraterrestial biotic life?	
09:40-10:05	Ravit Helled (TAU) The formation of Uranus and Neptune and intermediate-mass planets	
10:05-10:30	Joseph Gale (HUJI) Could planets orbiting red dwarf stars support oxygenic photosynthesis and hence complex life?	
10:30-10:45	Coffee break	
Session 2 — Biochemistry		
10:45-11:30	Antonio Lazcano (UNAM) Planetary evolution and biochemical adaptations: between contingency and determinism?	
11:30-11:55	Mark Safro (WIS) The mechanistic and evolutionary aspects of the 2'- and 3'-OH paradigm in biosynthetic machinery	
11:55-12:20	Malcolm E. Schrader (HUJI) Origin of chirality in proteins	
12:20-12:40	Boris Rubinov (BGU) From structure to function: possible Implications of β -sheet peptides to the origin of life	
12:40-13:20	Lunch	
Session 3 — Evolution		
13:20-13:40	Doron Lancet (WIS) Perspectives on ILASOL	
13:40-14:05	Omer Markovitch (WIS) Prebiotic evolution of molecular assemblies: from molecules to ecology	
14:05-14:30	Avshalom Elitzur (IYAR) How fast can life evolve?	
14:30-15:05	Ute Deichmann (BGU) The role of experiments, preconceived ideas, and scientific authorities in early controversies about the origin of life and the creation of artificial life in the laboratory	

Session 4 - Physics of Life

Coffee break

15:05-15:20

15:20-15:45	Arik Yochelis (BGU) Significance of a nonlinear pattern formation approach to cell morphology and functionality
15:45-16:10	Meir Shinitzky (WIS) Global asymmetry of space and time – are they interrelated?
16:10-16:35	Renan Gross (WIS) Compositional assemblies behave similarly to quasispecies model
16:35-17:00	Naftali Tishby (HUJI) Life and information
17:00	Nathaniel Wagner (BGU) Closing remarks

