



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

28<sup>th</sup> annual meeting March 29<sup>th</sup>, 2015

9:00 Ilse Katz Auditorium, Ben-Gurion University, Beer Sheva

08:45-09:00 Refreshments & Gathering

## Session 1 – Evolution

09:00-09:10 Nathaniel Wagner (BGU) Opening Remarks

09:10-09:40 Terence Kee (Leeds, UK) Towards Convergent Abiogenic Processes

09:40-10:00 Malcolm E. Schrader (HUJI) Punctuated Equilibria in Geobiological Evolution

10:00-10:30 Addy Pross (BGU) Evolutionary Dynamics in the 'Regular' and 'Replicative' Worlds: Boltzmann vs. Malthus

10:30-11:00 Ehud Meron (BGU) Surviving Stress by Pattern Formation

11:00-11:20 Eyal Arbely (BGU) An Expanded Genetic Code

11:20-11:45 Coffee break

## Session 2 – Astrobiology and Prebiotic Chemistry

11:45-11:55 Prof. Jiwchar Ganor, Dean of the Faculty of Natural Sciences (BGU) Greetings

11:55-12:25 Pierre-Alain Monnard (SDU, Denmark) Protocells: Laboratory Models for the Emergence of Living Cells?

12:25-12:45 Amri Wandel (HUJI) On the Abundance of Exo-Life after Kepler

12:45-13:05 Joseph Gale (HUJI) Quo Vadis Astrobiology?

13:05-13:25 Danny Portman (Technion) Adaptable Habitability

13:25-14:15 Lunch

## Session 3 – Planets and Asteroids

14:15-14:35 Hagai Perets (Technion) The Origins of Earth's Previous Moons, and Why is the Moon Made Out of Cheese?

14:35-14:55 Sivan Ginzburg (HUJI) Hot-Jupiter Inflation due to Deep Energy Deposition

14:55-15:15 Harel Ben-Ami (COPIOS, UNOOSA) Preparing to defend our home - Earth

15:15-15:35 David Polishook (WIS) Near-Earth Asteroids (NEAs) – Delivering Space Material to Earth

15:35-16:05 Noah Brosch (TAU) Near-Earth Asteroids, Impacts, and How to Mitigate Them

16:05-16:20 Coffee break

## Session 4 – Biochemistry

16:20-16:50 Peter Strazewski (Lyon, France) How to Feed an Inanimate Evolvable Chemical System so as to Let it Self-Evolve into Increased Complexity and Life-Like Behaviour

16:50-17:10 Doron Lancet (WIS) Composomics: a Common Biotic Thread

17:10-17:30 Ute Deichmann (BGU) The Impact of Scientists' Philosophical and Political-Ideological Views on their Research Related to the Origin of Life

17:30-17:50 Rakesh Mukherjee (BGU) Bistability and Bifurcation in Reversible Catalysis

17:50-18:20 Sohan Jheeta (NoR HGT, LUCA) Hypothesis: Network of RNAs and their Influence on Life

18:20-18:40 Tal Mor (Technion) When Physics Met Information - a Model for the Emergence of Coded Life

18:40 Gonen Ashkenasy (BGU) Closing Remarks

