



# The 22<sup>nd</sup> annual meeting of The Israel Society for Astrobiology and the Study of the Origin of Life (ILASOL)

**28 December 2008, Botnar Hall, Weizmann Institute of Science**

## *Session 1 – Chemistry*

09:00- 09:25 Nathaniel Wagner (BGU) Symmetry and Order in Catalytic Networks

09:25-09:50 Gonen Ashkenasy (BGU) Thermodynamic and kinetic control of replication processes in peptide networks

09:50-10:30 Joshua Jortner (TAU) The origin of early life on early earth

## *Session 2 – Emergence*

10:45-11:25 Kepa Ruiz-Mirazo (Univ. of the Basque Country, San Sebastián, Spain)

From vesicles to protocells: early transitions in the origins of life

11:25-11:50 Addy Pross (BGU) Emergence and Evolution as a Continuous Process Governed by a Single Driving Force

11:50-12:05 Hamutal Arbel (with D. Lancet, WIS) Possible advantages of early polymerization

12:05-12:45 Lunch

## *Session 3: Biology*

12:45-13:25 Ada Yonath (WIS) The evolving prebiotic translational machine

13:25-13:50 Oded Beja (TECH) Metagenomics and the key to the origin of life

13:50-14:15 Orna Dahan (with Y. Pilpel, WIS) Translation efficiency: mechanism and involvement in phenotypic divergence

## *Session 4: Astrochemistry and Astrobiology*

14:30-14:55 Shay Zucker (TAU) Extrasolar planets - current observational status

14:55-15:20 Akiva Bar-Nun (TAU) Delivery of organics to the primitive Earth vs in situ production of organic materials of biogenic importance

15:20-15:55 Hezi Gildor (WIS) Two-way interaction between biota and climate

## *Session 5: Debate on Intelligent Design*

16:00-16:50 Chair: Avshalom Elitzur

Eshel Ben-Jacob (TAU)

Issar Arie (HUJ)

Iris Fry (TECH)

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