

# 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**

*10:30-10:45 Coffee Break*

## **Session 2 – Emergence**

10:45-11:25 Keka 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**

*10:30-10:45 Coffee Break*

## **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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