Modelling Populations of Protocells

European Center for Living Technology workshop

March 18-19, 2007

Organizer:
R. Serra, Università Ca' Foscari Venezia - Italy

Program

Date and time	Speaker/activity	topic
Sunday march 18		
9.30 - 9.45	Steen Rasmussen & Roberto Serra	Introduction to the workshop: aim, organization
9.45 – 10.15	Steen Rasmussen	Review of experimental and computational results from Los Alamos
10.15-11.00	Roberto Serra	Is synchronization generic?
11.00 – 11.30	*Coffee break*	
11.30 – 12.15	Anders Eriksson	A framework for simulating Combined lipid/template growth synchronisation and template evolution
12.15 – 13.00	Mark Bedeau	The micelle effect
13.00 – 14.15	*Lunch break*	
14.15 -15.00	Pier Luigi Luisi	Self-reproduction of vesicles and matrix effect for the experimental modeling of minimal cells
15.00 -15.45	Fabio Mavelli	Bridging the gap between theoretical and experimental models of proto-cell populations
15.45 – 16.15	Coffe break	
16.15 – 18.30	General discussion 1 or subgroups	
Monday march 19		
9.30 – 10.15	Sanjay Jain	A model of self-organizing prebiotic autocatalytic sets and evolution of network complexity
10.15 – 11.00	Doron Lancet	Interaction networks in evolving protocell membranes
11.00 – 11.30	*Coffee break*	
11.30 – 12. 15	Harold Fellerman	DPD modelling of protocell life-cycle
12.15 – 13.00	Goran Goranovic	Protocells in microfluidic environment
13.00 – 14.15	*Lunch break*	
14.15 – 15.00	Timoteo Carletti	From chemical reaction to species in chemoton models
15.00 – 15.45	Arvydas Tamulis	Quantum Processes of Self Assembly, Photosynthesis and Molecular Computing in Artificial Minimal Living Cells
15.45 – 16.15	*Coffe break*	
16.15 – 18.15	General discussion 2 or subgroups	
18.15 – 18.30	Closing and conclusions	