

Evolution and Self-Assembly

European Center for Living Technology workshop
March 16-18, 2006, at ECLT in Palazzo Cavalli Franchetti

Organizers:

Kristian Lindgren and Martin Nilsson Jacobi (Chalmers), Norman Packard (ProtoLife)
(PACE workshop for WP2 and WP7.)

Program

Thursday, 16 March

- 09.00 – 09.15 Welcome
- 09.15 – 10.00 Quasi-Species and Aggregate Dynamics (Olof Görnerup, Martin Nilsson Jacobi, Anders Eriksson, Steen Rasmussen)
- 10.00 – 10.45 Evolutionary probabilistic design to protocell (Irene Poli, Michele Forlin)
- 10.45 – 11.00 Coffee
- 11.00 – 11.45 Population dynamics of los alamos bugs (Roberto Serra, Timoteo Carletti)
- 11.45 – 12.30 Evolutionary design of complex chemical systems: simulation and experiment (Norman Packard, Mark Bedau)
- 12.30 – 14.00 Lunch at ECLT
- 14.00 – 14.45 Working groups; discussions based on partner text contributions
- 14.45 – 15.00 Coffee
- 15.00 – 18.00 Ethics Workshop (see separate schedule)

Friday, 17 March

- 09.00 – 09.45 From self-replicating spots to self-replicating micelles: on the evolution of self-assembly in reaction-diffusion systems. (John McCaskill, Thomas Maeke, Ruedi Fuchsli)
- 09.45 – 10.30 Update on evolutionary issues from the Los Alamos project (Steen Rasmussen)
- 10.30 – 10.45 Coffee
- 10.45 – 11.30 Major Transitions in Artificial Chemistry (Barry McMullin)
- 11.30 – 12.15 (Ricard Solé ?)
- 12.15 – 14.00 Lunch at ECLT
- 14.00 – 14.45 Working groups; discussions on new 18 month plan
- 14.45 – 15.00 Coffee
- 15.00 – 18.00 Ethics Workshop (see separate scheddule)

Saturday, 18 March

- 09.00 – 09.45 Higher-order self-assembly (Jens Schroer)
- 09.45 – 10.30 Software for evolving chemical reaction networks (Andy Buchanan)
- 10.30 – 10.45 Coffee
- 10.45 – 11.30 (open)
- 11.30 – 12.15 Discussion
- 12.15 – 14.00 Lunch at ECLT
- 14.00 – 16.15 Working groups: Finalizing WP reports
- 16.15 – 16.30 Coffee
- 16.30 – 17.00 WP: Summary and status (Norman & Kristian)