

**Joint Programmable Artificial Cell Evolution (PACE) and
ProtoCell Assembly (PAs)
European Center for Living Technology Workshop on
ProtoCell Chemistry**

Purpose: Foster PACE and PAs information exchange and cross coordination of experimental efforts in both projects.

Goal: Coordinate the next 6 -12 months of experimental activities and initiate technical collaborations between PACE and PAs as needed. Identify theoretical and computational issues to support experimental efforts.

Wednesday, February 23, 2005, Venice

10:00: Welcome to the ECLT, Irene Poli, Mark Bedau & Norman Packard,

10:30 – 12:00: Short presentation of near term milestones and deliverables in PACE and PAs by John McCaskill and Steen Rasmussen, followed by open discussion. Goal of first Venice day is to initiate discussions about what PACE and PAs should aim to do experimentally within the next 6 – 12 months.

12:00 – 14:00: Lunch

14:00 – 15:30: Experimental plans next 6 –12 months. Discussions on selected experimental topics (possible ad hoc presentations) including issues as: (i) How can micfluidics help experimental efforts in the short term? (ii) Which questions might theory and simulations help address?

15:30 - 16:00 Break

16:00 – 17:00: Plenum feedback and discussion; identification of shared/complementary PACE and PAs tasks; possible modifications to the PACE and PAs work plans?

Thursday, February 24, 2005, Venice

9:00 – 9:45: Informal presentation on information chemistry (presenters: Peter Nielsen & Guenter von Kiedrowski)

Possible break out groups (two parallel activities)?:

10:00 – 12:00: Continued discussions about PACE and PAs experimental activities within the next 6 – 12 months. Identification of corresponding theoretical and simulation tasks on information systems to be undertaken by PACE and PAs (possibly ad hoc presentations of simulations)

12:00 – 14:30: Lunch

12:30 – 14:30: ECLT Science Board meeting

14:30 – 15:15: Presentation on metabolic chemistry (presenter: Woody Woodruff)

Possible break out groups (two parallel activities)?:

15:15 – 17:00: Continued detailed planning of experiments. Identification of corresponding theoretical and simulation tasks on container systems to be undertaken by PACE and PAs (possibly ad hoc presentations of simulations)

Friday, February 25, 2005, Venice

9:00 – 9:45: Presentation on container chemistry (presenter: Martin Hanczyk)

Possible break out groups (two parallel activities)?:

10:00 – 12:00: Continued detailed planning of experiments. Identification of corresponding theoretical and simulation tasks on metabolic systems to be undertaken by PACE and PAs (possibly ad hoc presentations of simulations)

12:00 – 14:00 Lunch

14:00 – 17:00 Group discussions on open near term experimental issues and how to best integrate experimental and theoretical efforts.

Saturday, February 26, 2005, Venice

9:00 – 12:00

Summary of PACE-PAs protocell chemistry workshop: experimental plans, milestones, and deliverables; corresponding simulation & theoretical plans, milestones and deliverables.