## 5th SIG Design Theory Workshop MINES ParisTech

### Monday January 30

*Chaired by B. Weil*

**9:00-10:00** : Welcome and introduction: A. Hatchuel & Y. Reich, P. Cogez (ST Microelectronics), J.-J. Thomas (SNCF), C. Mac Mahon (Design Society Psdt, Bath University)

- **10:00-10:45** Cycles of modern design theory: rediscussing the ontology of creativity  P. Le Masson (MINES ParisTech)

  Coffee Break

- **11:00-11:45** Ordering and design theory, Y. Reich (Tel-Aviv University), O. Shai, (Tel Aviv University)
- **11:45-12:30** Big projects and design theory: revisiting the Manhattan project, S. Lenfle (Cergy University & Ecole Polytechnique)

*Chaired by A. Hatchuel*

- **14:00-14:45** On some unique features of C–K theory of design, A.M.M. Sharif Ullah (Kitami Institute of Technology)
- **14:45-15:30** Economic development as design, E. Subrahmanian (CMU)

  Coffee Break

- **15:45-16:30** Theory-driven experiments, M. Cassotti (Sorbonne-Paris Cité Univ), M. Agogué (MINES ParisTech)
- **16:30-17:15** Empirical studies and design theories and models, J. Gero (Krasnow Institute for Advanced Study)

  **17:15-18:00** General debate

### Tuesday January 31

**9:00**- **11:00** THREE WORKSHOPS IN PARALLEL

- **Workshop 1**: Philosophical and technical aspects of design theory (see next slide) – report by K. Levillain (MINES ParisTech)
- **Workshop 2**: Social and managerial aspects of design (see next slide) (report by E. Berthet – S. Hooge, MINES ParisTech)
- **Workshop 3**: Design theory and creativity (see next slide) (report by I. Brown, MINES ParisTech)

*Chaired by E. Kroll*

- **11:15-11:45** Workshops reports
- **11:45-12:30** Invited lecture: the philosophical underpinnings of design Theory, A.-F. Schmid (INSA Lyon)

*Chaired by P. Le Masson*

- **14:00-14:45** Rethorics and design: a visit of Baltazar Gracian (17th century), A. Hatchuel (MINES ParisTech)
- **14:45-15:30** Interpreting Parameter Analysis through the proto-theory of design, E. Kroll (Technion), L. Koskela (Salford University)

  Coffee Break

- **15:45-16:30** Can design theory help entrepreneurship? M. Lundqvist (Chalmers School of Entrepreneurship, Chalmers Univ)

  **16:30-17:30** Open discussion on SIG orientations, Introduction by Y. Reich
WORKSHOP 1: Philosophical and technical aspects of design theory (20mn each presentation).
Chair by Yoram Reich; report by K. Levillain
• Designing and C-K Theory: A Conceptual Exploration, P. Vermaas (TU Delft)
• Design tools based on the logic of semantic tableaux, L. Hendriks (ILLC Amsterdam), A. Kazakçı (MINES ParisTech)
• The identity of objects: implicit issues of design theory, G. Giacomoni, (Paris 12 Univ & MINES ParisTech)
• Designing interpretation: Making sense of constellations of texts, A. Gentès (Telecom ParisTech), M. Bejean (Université Paris Est)

WORKSHOP 2: Social and managerial aspects of design (20mn each presentation)
Chair by E. Subrahmanian, reported by E. Berthet & S. Hooge.
• Analysing interactive roles in online communities: a socio-epistemic approach, F. Détienne, M. Baker, D. Fréard (CNRS Telecom ParisTech), F. Barcellini (CNAM), M. Quignard (CNRS – Lyon Univ) and A. Denis (CNRS)
• Collective intelligence and design thinking, P. Murty, M. Paulini, M. L. Maher (University of Sydney)
• Integral design and C-K theory to support sustainable building design, P. Savanovic, W. Zeiler (TU Eindhoven)
• Building a back-up tool for C-K theory use with non-engineers publics, F. Guntzer and H. Augustin (Intrapra)

WORKSHOP 3: Design theory and creativity (20mn each presentation)
Chair by J. Gero, reported by I. Brown
• Introduction to meta-design, T. Taura (Kobe Univ) and Y. Nagai (JAIST)
• Some ways to get new ideas, B. Tversky (Stanford Univ)
• Towards a Generic Model of Designing: Extended GEMS of SAPPHIRE, A. Chakrabarti (Indian Institute of Science, Bangalore), Srinivasan V. (TU Munich), Ranjan B.S.C.
• The black-curtained studio: Eulogy to a dead pencil, Gabriela Goldchmidt (Technion)