

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 Insitute 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. Agogu  (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

Workshops – Tuesday January 31

WORKSHOP 1: Philosophical and technical aspects of design theory (20mn each presentation).

Chaired 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. Kazakçi (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)

Chaired 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)

Chaired 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)