ORBEL

One-day symposium on
Optimization and Engineering
May 24 – Louvain-la-Neuve

CORE 40 YEARS

9:00	WELCOME

9:10–10:40

- (Bio)-mechanical engineering applications of convex optimization
  Bram DEMEULENAERE (KUL/MECH)

- Optimization of multibody systems
  Jean-François COLLARD AND Paul FISETTE (UCL/MECA)

- Solving lower/upper bound approaches of limit analysis by an interior-point method for convex programming
  Franck PASTOR (FUSL)

10:40–11:00	COFFEE BREAK

11:00–12:00 — PLENARY TALK

- Optimization methods for variational data assimilation into ocean models
  Serge GRATTON (CERFACS)

12:00–12:30

- Optimization based on evolutionary algorithms for aeronautics
  Rajan Filomeno COELHO (CENAERO)

12:30–14:00	LUNCH (at the *Fleur de Sel* restaurant)

14:00–15:30

- Simulation and optimization of a shipbuilding workshop
  Frédéric BAIR (ULG/ANAST)

- Mixed integer models for naval structure optimization
  Maud BAY (ULG/ROGP)

- Designing a new distribution strategy for a low-value goods producer: a practical solution for the inventory routing problem   *El-Houssaine AGHEZZAF* (Ghent)

15:30–15:50	COFFEE BREAK

15:50–17:20

- Optimizing future wireless communication systems
  Jonathan DUPLICY (UCL/ELEC)

- Development of an algorithm for solving mixed integer and nonconvex problems arising in electrical supply networks   *Emilie WANUFELLE* (FUNDP)

- Use of genetic algorithm for designing redundant sensor network
  Carine GERKENS (ULG/LASSC)

17:20	CLOSING WORDS

Symposium will take place at CORE, voie du Roman Pays, 34, B-1348 Louvain-la-Neuve, room b-135.
Registration before May 17 required: send name, affiliation & address to mauroy@core.ucl.ac.be
More details (abstracts, maps) available on http://www.orbel.be/workshops/opteng06/