1st Collab workshop 11.-13. April 2010 Themes and goals

- Collab project – common understanding
  - parallel methods for VRP and SPP
- Survey and future trends
  - architectures, platforms, environments, frameworks ... for parallel and heterogeneous computing
  - methods for VRP and SPP
- Present recent / ongoing work / plans
- New ideas
- Collab plans
- Have fun ...

Participants

- Michel Gendreau, CIRRELT
- El-Ghazali Talbi, INRIA
- Thé Van Luong, INRIA
- Olli Bräysy
- Andreas Reinholz
- Arne Løkketangen, Høgskolen i Molde
- Jin Jianyong, Høgskolen i Molde
- Trond Runar Hagen, SINTEF
- Oddvar Kloster, SINTEF
- Atle Riise, SINTEF
- Christian Schulz, SINTEF
- Morten Smedsrud, SINTEF
- Geir Hasle, SINTEF

		Sunday April 11	Monday April 12	Tuesday April 13
09:00	10:30		Session 1	Session 5
10:30	11:00		Coffee break	Coffee break
11:00	12:30		Session 2	Session 6
12:30	14:00		Lunch	Lunch
14:00	15:30		Session 3	Session 7 and closure
15:30	16:00		Coffee break	
16:00	17:30		Session 4	
17:30	19:30		Spa / on your own	
19:30			Dinner	
	19:15	Departure to Asker		
19:30	22:00	Dinner Akutten Tapas		

Sketch of program (1)

- **Surveys**
  - Collab project   Geir
  - Parallel and heterogeneous computing   Trond
  - Parallel VRP   Geir
  - Parallel SPP   Oddvar
- **Targeted problems**
  - Waste management   Olli
  - Media product distribution   Geir
  - Decomposition and aggregation heuristics for solving large-scale multi-criteria DVRPs   Geir
  - Rich VRP   Geir
  - Dynamic SPP in intermodal transportation   Oddvar

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Sketch of program (2)

- Recent / ongoing / planned work
  - Metaheuristics on GPU — Thé Van
  - GPU-based Local Search for Permutations — Atle
  - Multi-threaded Spider (sic!) — Morten
  - VRP solver based on heterogeneous computing — Christian
  - Parallel VRP solver — Andy
  - Decomposition and parallelization for the VRP — Michel
- Ideas
  - Some thoughts on parallelization and optimization — Arne
- Plans