



# SAMCoT

## Work Packages Workshops

30th January – 1st February  
2012

## Overview Work Packages Workshops:

Work Packages	Monday 30th Jan	Tuesday 31st Jan	Wednesday 1st Feb	Locations NTNU Gløshaugen*
WP 3	From 13.30h To 19.30h			*Høgskoleringen 7a Gallery 4
WP 5		From 09.00h To 16.00h		*Høgskoleringen 7a Room 2-138
WP 2		From 09.00h To 16.30h		*Høgskoleringen 7a Gallery 4
SAMCoT Dinner		Meeting time: 19:30h		Rica Nidelven Hotel Havnegata 1-3
WP 6			From 08.00h To 16.00h	*Richard Birkelands vei 2B - Room 216
WP 4			From 09.00h To 16.00h	*Høgskoleringen 7a Room 2-138

## WP3 Fixed structures in ice

30th Jan. 2012 – Høgskoleringen 7a Gallery 4

13:30-14:00	Welcome, introduction of people, overview of WP3 and SAMCoT e-room.
14:00-16:00	Dynamic ice actions -Presentation and status of DIIV project - Mauri Määtänen, Andrei Metrikine and Torodd Nord -Industry input, needs and planned contribution -Scientific discussion about Dynamic Ice Action within SAMCoT
16:00-17:00	Late lunch / Dinner at Campus
17:00-18:30	Ridge action and rubble accumulation on wide structures -EU large-scale facilities program at HSVA in April 2012 Rubble ice transport on Arctic offshore structures - Nicolas Serre and Knut V. Høyland. -Aalto activity, Discrete element modelling - Jukka Tuhkuri -Simulation of ridge-structure interaction and ice accumulation – Status of research at VTT - Jaakko Heinonen and Kari Kolari -Aleksy Marchenko - possible contribution: o Modeling of ice piling up near offshore structures o Parametric excitation of exural-gravity waves by periodically oscillating in-plane stresses in the ice -Industry input, needs and planned contributions: -Strategy for work towards a numerical ice ridge action model oWanted full-scale data / ridge properties, relation to WP1 oNumerical work, relation to WP2 oBasin model work, scaling issues?
18:30-18:45	Tea break
18:45-19:30	Towards a more detailed research plan - How to prioritize the resources?

## WP5 Ice Management and Design Philosophy

31st Jan. 2012 – Høgskoleringen 7a Room: 2-138

09.00-09.05	Welcome
09.05-09.20	Presentation WP5 (R. Lubbad, NTNU) Goals -Formal research tasks/focus -Knowledge gaps (potential research tasks) -Human resources
09.20-09.45	Ice Management: State-of-the-Art (K. Eik, Statoil)
09.45-10.15	IP presentations (10 minutes each) to highlight the companies' needs, expectations and priorities and to indicate the kind of contribution from the different companies to WP5: -AKSO (P. Bruun); -DNV (P. Moslet); -Kongsberg (N. Jenssen)
10.15-10.30	Coffee break
10.30-11.00	-Shell (I. Reed); -Statoil (K. Eik); -TOTAL (M. Le-Garrec)
11.00-11.30	Ongoing research that can be linked to WP5 (10 minutes each) -Human risk influence factors (M. Kashafutdinov, NTNU) -Iceberg towing in the presence of sea currents (A. Marchenko, UNIS) -Laser Scanning in Ice Management (D. Wrangborg, UNIS)
11.30-12.30	Lunch break
12.30-14.30	Discussion to formulate the research tasks to WP5 -What to be done and who is going to do what
14.30-14.45	Coffee break
14.45-15.45	Discussion: KV Svalbard and RV Lance -How to use these opportunities for field work

## WP2 Material modelling

31st Jan. 2012 – Høgskoleringen 7a Gallery 4

09.00-09.30	Welcome, introduction of people, overview of WP2 and SAMCoT e-room.
09.30-11.30	Ice rubble (Task 2.1) NTNU activity - Plans for 2012 and general introduction of work - Presentation of Sergey Kulyakhtin (PhD-student) Aalto activity Material modelling issues in ice ridge - Status of research at VTT Industry needs and contributions Discussion
11.30-12.15	Lunch at Campus (Realfagskantina)
12.30-14.30	Ice drift (Task 2.3) UNIS activity - Plans for 2012 and general introduction of work - Presentation of Renat Yulmetov (PhD-student) Industry needs and contributions Discussion
14.30-14.45	Tea break
14.45-16.30	Frozen soil (Task 2.2) NTNU activity - Plans for 2012 and general introduction of work - Presentation of Yared Bekele (PhD-student) UNIS activity (WP1 Collection and analysis of data) Industry needs and contributions Discussion

## WP6 Coastal Technology

1st Feb. 2012 Richard Birkelands vei 2b Room 216

08.00-08.15	Welcome
08.15-08.45	Presentation WP6 (goals, key challenges, HSE, human resources)
<b>PART I CHALLENGES FOR INDUSTRY IN ARCTIC AREAS</b>	
08.45-09.00	Barlindhaug
09.00-09.15	DNV
09.15-09.30	Multiconsult
09.30-10.00	Coffee break
10.00-10.15	Shell
10.15-10.30	Statoil
10.30-10.45	Total
10.45-11.00	Break
11.00-11.30	Presentation of sites on Svalbard and Russia, evaluation and risk assessments (Jomar Finseth)
11.30-12.30	Lunch break
<b>PART II</b>	
12.30-12.50	Summary of Part 1 (Svein Willy Danielsen)
12.50-13.20	Gaps, goals and research plans of Task 6.1 and Task 6.2 (Maj Gøril Glåmen Bæverfjord and Svein Willy Danielsen)
13.20-14.45	Discussion of planned field work in 2012 and research plan of WP 6 (Svein Willy Danielsen)
14.45-15.00	Coffee break
15.00-16.00	Continued discussions (Svein Willy Danielsen)
16.00-16.30	Any other business

## WP4 Floating Structures in Ice

1st Feb. 2012 – Høgskoleringen 7a Room: 2-138

09.00-09.05	Welcome / Safety issues
09.05-09.20	Presentation of WP4 (S. Løset) - Goals - Formal research tasks/focus - Knowledge gaps (potential research tasks) - Human resources
09.20-09.45	Floating Structures in Ice (State-of-the-Art/Modelling) (S. Løset/R. Lubbad)
09.45-10.00	Nonlinear Coupled Hydrostatics of Arctic Conical Platforms (O. Dalane)
10.00-10.40	IP presentations (6 minutes each) where you highlight the company needs, expectations and priorities, indicate the kind of contribution from the company to WP4: -AKSO -Barlindhaug -DNV -KongsbergMaritime -Shell -Statoil -TOTAL
10.40-10.50	Coffee break
11.00-11.30	Discussion
11.30-12.15	Lunch Break
12.30-13.00	Model-scale Experiments of Accidental Collision of Ice Mass with a Floating Structure (ACIM) (E.Kim/J.Amdahl)
13.00-13.30	Sea ice drift/floating quay/localization study/surveys (A. Marchenko)
13.30-13.50	Ice tank vs. meso scale vs. numerical modelling (S. Løset)
13.50-14.30	
13.50-14.30	Way forward/field
14.30-14.45	Coffee break
14.45-15.45	Way forward/numerics
15.45-16.00	Conclusive Remarks/MoM (max.2 pages)