

POAC'13 - Conference Program

SUNDAY 9.6.2013			
17:00	REGISTRATION DESK OPENS		
18:00	ICE BREAKER PARTY AT DIPOLI CONGRESS CENTRE		
20:00			
MONDAY 10.6.2013			
7:45	REGISTRATION DESK OPENS		
8:10	OPENING CEREMONY - AUDITORIUM		
8:30	KEYNOTE LECTURE: Christian Haas: <i>Arctic Sea Ice - Where are we headed?</i> - AUDITORIUM		
9:15	COFFEE		
9:30	ICE BREAKING SHIPS 1 - AUDITORIUM Chairs: Kaj Riska & Evgeny Appolonov	REMOTE SENSING 1 - HALL 4A Chairs: Torbjørn Eltoft & Sebastian Gerland	ICE MECHANICS 1 - HALL 4B Chairs: John Dempsey & Guido Kuiper
9:30	037 Ryu, C., Kim, H., Park, K., Lee, C., Lew, J.: <i>Development of ice resistance estimation system using empirical formula</i>	008 Eltoft, T., Doulgeris, A., Gerland, S., Moen, M.-A.: <i>Polarimetric decomposition analysis of sea ice data</i>	133 Kuiper, G.: <i>Correlation curves for brittle and ductile ice failure based on fullscale data</i>
9:50	034 Guo, F.: <i>A simplified ice load model for assessing the global dynamic response of ships</i>	029 Karvonen, J., Cheng, B., Vihma, T.: <i>Estimation of sea ice parameters based on x-band sar data and thermodynamic snow/ice modelling for the caspian sea</i>	017 Renshaw, C., Golding, N., Schulson, E.: <i>Maps for brittle and brittle-like failure in ice</i>
10:10	075 Jeong, S., Choi, K., Cho, S., Kang, K., Lee, C.: <i>A study on the resistance prediction method in level ice</i>	031 Similä, M., Dinessen, F., Hughes, N., Mäkynen, M.: <i>Ice edge detection with dual polarized SAR data</i>	097 Snyder, S., Schulson, E., Renshaw, C.: <i>Effects of pre-strain on the elastic properties and the ductile-to-brittle transition of columnar ice</i>
10:30	134 Nyseth, H., Frederking, R., Sand, B.: <i>Evaluation of global ice load impacts based on real-time monitoring of ship motions</i>	035 Zhang, Q., Skjetne, R., Su, B.: <i>Automatic image segmentation for boundary detection of apparently connected sea-ice floes</i>	026 Spencer, P.: <i>Unifying local and global ice crushing pressures</i>
10:50	145 Choi, Y., Kim, S., Lee, J.: <i>Development of test method for continuous bending fracture of ice using universal testing machine</i>	043 Jørgensen, U., Skjetne, R.: <i>Dynamic estimation of a drifting ice topography over a 2D area using mobile underwater measurements</i>	028 Spencer, P.: <i>Axi-symmetric extrusion tests on crushed ice</i>
11:10	158 Valkonen, J.: <i>Uncertainty of a methodology to estimate global ship loads during interaction events with ice features</i>		159 Gagnon, R.: <i>High-speed imaging of ice-on-ice crushing</i>
11:30	LUNCH		
12:15	GROUP PHOTO		
12:30	ICE BREAKING SHIPS 2 - AUDITORIUM Chairs: Akihisa Konno & Jorma Kämäräinen	REMOTE SENSING 2 and OIL IN ICE - HALL 4A Chairs: Nicholas Hughes & Sönke Maus	ICE MECHANICS 2 - HALL 4B Chairs: Erland Schulson & Paul Spencer
12:30	215 Riska, K., Coche, E.: <i>Station keeping in ice - challenges and possibilities</i>	082 Lednev, V., Pershin, S., Yulmetov, R., Bunkin, A.: <i>Remote sensing of ice and snow by compact raman lidar</i>	022 Li, G.: <i>A reliability-based approach to determine local ice design pressures</i>
12:50	144 Bridges, R., Tong, J., Zhang, S., Kavanagh, S., Pavic, M., Fitzsimmons, P.: <i>Ice load monitoring systems – shipright sea event analysis procedure for ice</i>	093 Karjalainen, A., Peisa, K.: <i>Towards ice thickness measurement with ground penetrating radar</i>	132 Goldstein, R., Onishchenko, D., Osipenko, N., Shushpannikov, P., Naumov, M.: <i>Grounded ice pile-up. 2D DEM simulation</i>
13:10	148 Suominen, M., Karhunen, J., Bekker, A., Kujala, P., Elo, M., von Bock und Polach, R., Enlund, H., Saarinen, S.: <i>Full-scale measurements on board PRSV S.A. Agulhas II in the Baltic sea</i>	214 Gerland, S., Renner, A., Spreen, G., Divine, D., Granskog, M., Hansen, E., Hudson, S., Eltoft, T., Doulgeris, A., Fors, S., Moen, M., Hughes, N., Storvold, R.: <i>Validation and complementing of SAR satellite surveys over Arctic Sea ice by multiple simultaneous sets of measurements</i>	131 Wrangborg, D., Marchenko, A.: <i>Laser scanning in arctic sea ice research</i>
13:30	149 Suominen, M., Su, B., Kujala, P., Moan, T.: <i>Comparison of measured and simulated short term ice loads on ship hull</i>	014 Petrich, C., Arntsen, M.: <i>Laboratory studies of oil encapsulation under growing sea ice</i>	130 Wrangborg, D., Grady, R., Marchenko, A., Karulin, E.: <i>Analysis of tidal deformations of land fast ice in shallow arctic fjord</i>
13:50	143 Konno, A., Nakane, A., Kanamori, S.: <i>Validation of numerical estimation of brash ice channel resistance with model test</i>	091 Maus, S., Leisinger, S., Matzl, M., Schneebeli, M., Wiegmann, A.: <i>Modelling oil entrapment in sea ice on the basis of 3D micro-tomographic images</i>	086 Bonath, V., Patil, A., Fransson, L., Sand, B.: <i>Laboratory testing of compressive and tensile strength on level ice and ridged ice from Svalbard region</i>
14:10	095 Su, B., Kjerstad, Ø., Skjetne, R., Berg, T.: <i>Ice-going capability assessment and DP-ice capability plot for a double acting intervention vessel in level ice</i>		096 Santaoja, K.: <i>On deformation mechanisms of sea ice and their mathematical modelling</i>
14:30	COFFEE		
15:00	ICE BREAKING SHIPS 3 - AUDITORIUM Chairs: Kyungsik Choi & Raed Lubbad	ICE MANAGEMENT AND RISKS 1 - HALL 4A Chairs: Natsuhiko Otsuka & Edmond Coche	ICE MECHANICS 3 - HALL 4B Chairs: Garry Timco & Mauri Määttänen
15:00	183 Andryushin, A., Hänninen, S., Heidemann, T.: <i>"Azipod" azimuth thruster for large capacity arctic transport ship with high ice category arc7. ensuring of operability and operating strength under severe ice conditions"</i>	190 Richard, M., McKenna, R.: <i>Factors influencing managed sea ice loads</i>	179 Dempsey, J., Jochmann, P., Fransson, L., Mu, Z., Weiss, J., Palmer, A.: <i>Cleavage fracture of warm brackish ice</i>
15:20	040 Sazonov, K., Dobrodeev, A.: <i>Making a channel in ice for large-size ships using a curvilinear icebreaker path and other methods overview</i>	199 Hamilton, J., Fenz, D., Kokkinis, T., Holub, C.: <i>Aligning the needs of floating drilling and the capabilities of ice management</i>	047 Schulson, E., Fort, A.: <i>Static friction of ice</i>
15:40	041 Sazonov, K., Appolonov, E., Dobrodeev, A., Klementieva, N., Kudrin, M., Maslich, E., Petinov, V., Shaposhnikov, V.: <i>Studies to develop technologies for making a wider channel in ice</i>	210 Naseri, M., Barabady, J.: <i>Offshore drilling activities in barents sea: challenges and considerations</i>	056 Lishman, B., Sammons, P.: <i>Memory in sea ice friction</i>
16:00	110 Kang, H., Kim, K., Kim, D., Ha, T.: <i>Numerical investigation on freezing in ballast water tank of vessels operating in cold climate conditions</i>	217 Fournier, N., Nilsen, R., Turnbull, R., McGonigal, D., Fosnaes, T.: <i>Iceberg management strategy for Baffin bay 2012 scientific coring campaign</i>	146 Bruneau, S., Colbourne, B., Dragt, R., Dillenburg, A., Ritter, S., Pilling, M., Sullivan, A.: <i>Laboratory indentation tests simulating ice-structure interactions using cone-shaped ice samples and steel plates</i>
16:20	083 Rimpiläinen, J., Nallikari, M., Alanne, K., Palonen, M., Vuolle, M.: <i>Designing an energy efficient deckhouse for icebreakers using dynamic simulation and multi-objective optimization</i>	219 Eik, K., Kvingedal, B., Nygaard, E.: <i>Frequency of sea ice and icebergs at Skrugard – Barents sea</i>	036 Dragt, R., Bruneau, S.: <i>The collision of cone-shaped ice samples against steel plates of varying surface roughness</i>
16:40	109 Lubbad, R., van Raaij, E., Løset, S., Eik, K.: <i>Oden arctic technology research cruise 2012</i>	172 Coche, E., Kalinin, A.: <i>Yamal LNG: Challenges of an LNG port in arctic region</i>	220 Zvyagin, P., Sazonov, K.: <i>Statistically based method of representing ice loads signal as a sum of several uncorrelated and stationary processes</i>
17:00	END OF PARALLEL SESSIONS		
17:30			
20:00	CITY RECEPTION AT ESPOO CULTURAL CENTRE. TRANSPORTATION FROM DIPOLI AT 17.30 AND BACK TO CONFERENCE HOTELS AT 20.00		

TUESDAY 11.6.2013								
REGISTRATION DESK OPENS								
KEYNOTE LECTURE: Mark Hopkins: <i>Discrete Element Modeling in Ice Mechanics</i> - AUDITORIUM								
COFFEE								
8:00	NUMERICAL METHODS IN ICE ENGINEERING - AUDITORIUM Chairs: Mark Hopkins & Jaakko Heinonen		ICE MANAGEMENT AND RISKS 2 - HALL 4A Chairs: Koh Izumiya & Richard McKenna	ICE MECHANICS 4 - HALL 4B Chairs: Robert Gagnon & Marina Karulina	ENGINEERING IN COLD REGIONS - HALL 22 Chairs: Dmitry Onishenko & Nataliya Marchenko			
9:30	222	Polojärvi, A., Tuhkuri, J.: <i>2D FEM-DEM simulations of punch through tests: effects of partly consolidated rubble deformation</i>	194	Rossiter, C., McKenna, R.: <i>Drift direction changes and implications for sea ice management</i>	038	Choi, K., Kim, H., Nam, J., Ha, J.: <i>Sea ice properties of the Amundsen sea, Antarctica</i>	042	Vasiliev, N., Ivanov, A.: <i>Watertight ice and cryogel-soil composite membranes in upper parts of dams constructed in cold regions.</i>
9:50	051	Metrikin, I., Løset, S.: <i>Non-smooth 3D discrete element simulation of a drillship in discontinuous ice</i>	007	Bridges, R., Przydatek, J., Jenkins, V., Howarth, D.: <i>Managing and mitigating the risks of materials selection for the winterisation of exposed deck equipment and systems</i>	197	Sinitsyna, T., Shkhinek, K., Høyland, K.: <i>A statistical analysis of spatial strength heterogeneity of sea ice cover</i>	112	Finseth, J., Sessfors, A., Hormes, H., Tangen, H.: <i>Erosion protection of a coastal cultural heritage in Svalbard; "Fredheim"</i>
10:10	118	Heinonen, J., Høyland, K.: <i>Failure mechanisms in scale-model ridge keel punch through tests - FE-analysis</i>	102	Izumiya, K., Otsuka, N.: <i>Ice thickness calculation from partial concentration values</i>	049	Karulina, M., Karulin, E., Marchenko, A.: <i>Field investigations of first year ice mechanical properties in north-west Barents sea</i>	062	Marchenko, N.: <i>Geographical informational systems for sustainable arctic technology</i>
10:30	140	Kolari, K.: <i>Simulation of brittle failure of ice</i>	078	Berg, T., Berge, B., Borgen, H., Hänninen, S., Suojanen, R., Su, B.: <i>Offshore vessel design for barents sea operations</i>	204	Smirnov, V., Panov, V.: <i>Monitoring physical-mechanical state of the sea ice</i>		
10:50	142	Kuutti, J., Kolari, K.: <i>Simulation of dynamic ice indentation failure</i>	012	Ayele, Y., Barabadi, A., Markeset, T.: <i>Spare part transportation management in high north</i>	134	Marchenko, A., Wrangborg, D., Thiel, T.: <i>Using distributed optical fiber sensors based on FBGs for the measurement of temperature fluctuations in saline ice and water on small scales</i>		
11:10	068	Lu, W., Lubbad, R., Serré, N., Løset, S.: <i>A theoretical model investigation of ice and wide sloping structure interactions</i>	225	Otsuka, N., Izumiya, K., Furuichi, M.: <i>Study on feasibility of the northern sea route from recent voyages</i>	114	Justad, J., Høyland, K.: <i>The UNIS bore hole jack; description, experiments 2012 and a refined classification system</i>		
11:30	LUNCH							
12:30	TRIP TO SUOMENLINNA SEA FORTRESS. TRANSPORTATION FROM DIPOLI AT 12.30 AND BACK TO CONFERENCE HOTELS AT ABOUT 17.30.							
17:30								

WEDNESDAY 12.6.2013			
REGISTRATION DESK OPENS			
8:30 KEYNOTE LECTURE: Jorma Kämäräinen: <i>Ice Classification Rules and IMO</i> - AUDITORIUM			
9:15 KEYNOTE LECTURE: Kaj Riska: <i>Development of the Finnish-Swedish Ice Class Rules using recent research results</i> - AUDITORIUM			
10:00 COFFEE			
10:10	STRUCTURES IN ICE 1 - AUDITORIUM Chairs: Sveinung Løset & Kari Kolari	MODEL TESTING IN ICE 1 - HALL 4A Chairs: Karl-Ulrich Evers & Arne Gürtner	SHIPS IN COMPRESSIVE ICE- HALL 4B Chairs: Ivana Kubat & Jakub Montewka
10:10	046 Timco, G., Barker, A., Baker, S., Frederking, R.: <i>Evaluating the iso arctic structures code against full-scale empirical data</i>	138 Serré, N., Høyland, K., Lundamo, T., Bonnemaire, B., Evers, K., Gürtner, A.: <i>Rubble ice transport on arctic offshore structures (RITAS), part I: scale-model investigations of level ice action mechanisms</i>	180 Külaots, R., Kujala, P., von Bock und Polach, R., Montewka, J.: <i>Modelling of ship resistance in compressive ice channels</i>
10:30	226 Kärnä, T., Andersen, H., Gürtner, A., Metrikine, A., Sodhi, D., Loo, M., Kuiper, G., Gibson, R., Fenz, D., Muggeridge, K., Wallenburg, C., Wu, J. F., and Jefferies, M.: <i>Ice-induced vibrations of offshore structures – looking beyond ISO 19906</i>	136 Serré, N., Lu, W., Høyland, K., Bonnemaire, B., Borge, J., Evers, K.: <i>Rubble ice transport on arctic offshore structures (RITAS), part II: 2D scale model study of level ice action</i>	181 Montewka, J., Lensu, M., Sinclair, H., Kujala, P.: <i>Modelling ship performance in ice using bayesian networks</i>
10:50	157 Manuel, M., Reddy, S., Daley, C., Colbourne, B.: <i>Controlled plastic deformation of a grillage using artificial freshwater ice at a large scale</i>	080 Nord, T., Määttänen, M., Øiseth, O.: <i>Frequency domain force identification in ice-structure interaction</i>	208 Lensu, M., Haapala, J., Lehtiranta, J., Eriksson, P., Kujala, P., Suominen, M., Mård, A., Vedenpää, L., Kõuts, T., Lilover, M.: <i>Forecasting of compressive ice conditions</i>
11:10	045 Jussila, V., Popko, W., Heinonen, J.: <i>Interfacing of ice load simulation tools for cylindrical and conical structure with Onewind simulation tool for offshore wind turbines</i>	106 Yap, K., Palmer, A.: <i>A model test on ice-induced vibrations: structure response characteristics and scaling of the lock-in phenomenon</i>	209 Lensu, M., Suominen, M., Haapala, J., Külaots, R., Elder, B.: <i>Measurements of pack ice stresses in the baltic</i>
11:30 LUNCH			
12:30	STRUCTURES IN ICE 2- AUDITORIUM Chairs: Tom Brown & QianJin Yue	MODEL TESTING IN ICE 2 - HALL 4A Chairs: Göran Wilkman & Basil Bonnemaire	FORECASTING - HALL 4B Chairs: Christian Haas & Tarmo Kõuts
12:30	020 Kim, H., Daley, C.: <i>Reanalysis of pressure patterns and pressure-area curves considering resolution of pressure measurement film</i>	147 Suominen, M., Kujala, P.: <i>A study of measured line load lengths and maximum ice loads on model ship hull</i>	077 Yulmetov, R., Løset, S., Eik, K.: <i>Analysis of drift of sea ice and icebergs in the Greenland sea</i>
12:50	027 Spencer, P.: <i>A review of medof panel performance installed on the molikpaq structure in the canadian beaufort sea</i>	023 Krupina, N., Chernov, A., Likhomanov, V., Maksimova, P., Savitskaya, A.: <i>The ice tank study of ice performance of large LNGC in the old channel</i>	116 Yulmetov, R., Marchenko, A., Løset, S.: <i>Ice drift and sea current analysis in the northwestern Barents sea</i>
13:10	087 Lu, W., Serré, N., Høyland, K., Evers, K.: <i>Rubble ice transport on arctic offshore structures (RITAS), part IV: tactile sensor measurement of the level ice load on inclined plate</i>	101 Cho, S., Jeong, S., Kang, K.: <i>Experimental study of frictional coefficient between model ice and a model ship</i>	192 Lilover, M., Pavelson, J., Kõuts, T.: <i>High resolution ice dynamics derived from adcp and icebound drifter data in the gulf of finland, the baltic sea</i>
13:30	094 Kniazev, L., Tryaskin, V., Dudal, A.: <i>Method for recovery of ice load parameters based on strain gauge measurements</i>	178 Wilkman, G., Leiviskä, T.: <i>Forty three years of ice model testing in finland</i>	166 Crocker, G., Carrieres, T., Tran, H.: <i>Ice island drift and deterioration forecasting in eastern Canada</i>
13:50	013 Bekker, A., Uvarova, T., Pomnikov, Tyutrin, E.: <i>Review of the test methods for various materials for ice abrasion resistance</i>	122 Hoving, J., Vermeulen, R., Mesu, A., Cammaert, G.: <i>Experiment-based relations between level ice and managed ice loads on an arctic jack-up structure</i>	164 Kubat, I., Sayed, M., Babaei, H.: <i>Analysis of besetting incidents in Frobisher bay during 2012 shipping season</i>
14:10	019 Määttänen, M., Vähätaini, K.: <i>OWEC ice loads in landfast ice zone</i>	224 Neville, M., Brown, J., Martin, E., Keinonen, A., Efraimsson, F., Lijeström, G.: <i>Influence of modeling full scale based managed ice conditions in DP ice model tests</i>	073 Zubakin, G., Gudoshnikov, Y., Nesterov, A., Kubyskin, N., Skutin, A., Buzin, I., Vinogradov, R., Naumov, A., Nalimov, Y., Klyachkin, S., Fedyakov, V., Andreev, O.: <i>Evaluation of ice conditions of the northern Ob bay associated with construction of the port of Sabetta</i>
14:30 COFFEE			
15:00	STRUCTURES IN ICE 3 - AUDITORIUM Chairs: Andrew Palmer & Anne Barker	ICE RIDGES 1 - HALL 4A Chairs: Ben Lishman & Nicholas Serré	ICE AND NAVIGATION - HALL 4B Chairs: Pentti Kujala & Kenneth Eik
15:00	054 Palmer, A., Bjerkas, M.: <i>Synchronisation and the transition from intermittent to locked-in ice-induced vibration</i>	070 Sudom, D., Timco, G.: <i>Knowledge gaps in sea ice ridge properties</i>	201 Yamaguchi, H.: <i>Sea ice prediction and construction of an ice navigation support system for the arctic sea routes</i>
15:20	066 Hendrikse, H., Metrikine, A.: <i>The influence of friction at the ice-structure interface on ice induced vibrations</i>	125 Helgøy, H., Astrup, O., Høyland, K.: <i>Laboratory work on freeze bonds in ice rubble, part I: experimental set up, ice properties and freeze bond texture</i>	088 Valkonen, J., Eide, L.: <i>Sensitivity of arctic transit shipping to climate variability</i>
15:40	195 Wang, Y., Yue, Q.: <i>Physical mechanism of ice induced self-excited vibration</i>	126 Helgøy, H., Astrup, O., Høyland, K.: <i>Laboratory work on freeze-bonds in ice rubble, part II: results from individual freeze-bond experiments</i>	071 Yakimov, V., Tryaskin, V.: <i>Use of the stochastic simulation technique for estimation of the ice cover strength by interaction with ship hull</i>
16:00	015 Shkhinek, K., Zhilenkov, A., Thomas, G.: <i>Vibration of fixed offshore structures under ice action</i>	090 Astrup, O., Helgøy, H., Høyland, K.: <i>Laboratory work on freeze-bonds in ice rubble, part III: shear box experiments</i>	167 Choi, M., Chung, H., Yamaguchi, H., De Silva, L.W.A.: <i>Application of genetic algorithm to ship route optimization in ice navigation</i>
16:20	055 Onken, G., Evers, K., Haase, A., Jochmann, P.: <i>Ice model tests with a cylindrical structure to investigate dynamic ice-structure interaction</i>	079 Patil, A., Sand, B., Fransson, L.: <i>Numerical simulations of shear properties of ice rubble: a shear box experiment</i>	163 Dolny, J., Yu, H., Daley, C., Kendrick, A.: <i>Developing a technical methodology for the evaluation of safe operating speeds in various ice conditions</i>
16:40	033 Guo, F.: <i>Analysis of the key parameters in frequency locked-in scenario</i>	060 Ekeberg, O., Høyland, K., Hansen, E.: <i>Extreme keel drafts in the fram strait 2006-2011</i>	223 Ryabov, S., Eik, K.: <i>On the quality of weather forecasts and ice charts offshore north east Greenland</i>
17:00 END OF PARALLEL SESSIONS			
18:00 CONFERENCE DINNER AT HSS BOATHOUSE. TRANSPORTATION FROM CONFERENCE HOTELS AT 18.00. TRANSPORTATION BACK TO ONCFERENCE HOTELS STARTING AT 22.00.			

THURSDAY 13.6.2013			
8:00	REGISTRATION DESK OPENS		
8:30	KEYNOTE LECTURE: Dan Masterson: <i>Ice Engineering Over the Decades</i> - AUDITORIUM		
9:15	COFFEE		
9:30	STRUCTURES IN ICE 4 - AUDITORIUM Chairs: Dan Masterson & Graham Thomas	ICE RIDGES 2 - HALL 4A Chairs: Knut Høyland & Eleanor Bailey	GOUGING - HALL 4B Chairs: Walter Spring & Paul Verlaan
9:30	213 Neth, V., Masterson, D.: <i>Behaviour of an ice sheet under heavy loading</i>	120 Shestov, A., Marchenko, A.: <i>Thermodynamic consolidation of ice rubble in water at varying freezing point. Experiment</i>	185 Been, K., Croasdale, K., Jordaan, I., Verlaan, P.: <i>Practice for pipeline design in ice scoured environments: application to the Kashagan project</i>
9:50	063 Barker, A., Sayed, M.: <i>Multi-leg structures in ice – examining global loading uncertainties</i>	154 Bailey, E., Sammonds, P., Feltham, D.: <i>The consolidation of rafted sea ice: laboratory experiments and model validation</i>	186 Parr, G., Fuglem, M., Jordaan, I., Verlaan, P.: <i>Stamukha pits – input characteristics for design of pipelines in the Caspian sea</i>
10:10	196 Liu, J.: <i>Ice load assessment for jack-up units</i>	030 Karvonen, J., Heiler, I., Haapala, J., Lehtiranta, J.: <i>Ice objects tracked from coastal radar image sequences as virtual ice buoys</i>	187 Fuglem, M., Parr, G., Jordaan, I., Verlaan, P., Peek, R.: <i>Sea ice scour depth and width parameters for design of pipelines in the Caspian sea</i>
10:30	221 Lengkeek, H.J., Besseling, F.: <i>Combined translational and rotational sliding of of gravity based structures due to ice loads</i>	119 Nesterov, A., Voinov, G.: <i>The tidal effects in the northern Ob bay</i>	188 Croasdale, K., Been, K., Crocker, G., Peek, R., Verlaan, P.: <i>Stamukha loading cases for pipelines in the Caspian sea</i>
10:50	016 Tsarau, A., Lubbad, R., Løset, S.: <i>Numerical studies of floating structures in broken ice</i>	168 Marchenko, A., Onishchenko, D.: <i>Ice piling up and ice loads on narrow structures: laboratory experiments and modelling of kinematics</i>	189 Been, K., Peek, R., Croasdale, K., Verlaan, P.: <i>Subscour displacements for pipeline design: state of practice for Kashagan project</i>
11:10		010 Kharitonov, V.: <i>Distribution of ice volume content in sea ice ridges</i>	212 Buharitsin, P., Ayazbayev, E.: <i>The role of drifting ice in building the bottom landscape and sediment composition in the shallow waters of north Caspian sea</i>
11:30	LUNCH		
12:30	ICE BREAKING SHIPS 4 - AUDITORIUM Chair: Aleksander Andryushin & Reko-Antti Suojanen	ICE RIDGES 3 - HALL 4A Chairs: Mikko Lensu & Bjørnar Sand	ICE MECHANICS 5 - HALL 4B Chairs: Aleksey Marchenko & Kari Santaoja
12:30	165 Kujala, P., Ehlers, S.: <i>Limit state identification for ice-strengthened hull structures using measured long-term loads</i>	044 Sand, B., Petrich, C., Sodom, D.: <i>Morphologies of ridges surveyed off Svalbard and in fram strait, 2011 and 2012 field expeditions</i>	085 Burden, J., Kenny, S., Phillips, R.: <i>Preliminary analysis of ice interaction with subsea infrastructure and the seabed</i>
12:50	058 Goncharov, V., Klementieva, N., Sazonov, K.: <i>Interaction of ships under traffic within navigable ice channel</i>	203 Mudge, T., Ross, E., Fissel, D., Marko, J.: <i>Further improvements to understandings of extreme arctic sea ice thickness derived from upward looking sonar ice data</i>	184 Peek, R., Been, K., Bouwman, V., Nobahar, A., Sancio, R., van Schalkwijk, R.: <i>Buried pipeline response to ice gouging on a clay seabed large scale tests and finite element analysis</i>
13:10	064 Kjerstad, Ø., Skjetne, R., Berge, B.: <i>Constrained nullspace-based thrust allocation for heading prioritized stationkeeping of offshore vessels in ice</i>	011 Kharitonov, V.: <i>On the results of research of the internal structure of ice ridges in the north pole-2010 expedition at Barneo ice camp in April 2010</i>	121 Moore, P., Jordaan, I., Taylor, R.: <i>Explicit finite element analysis of compressive ice failure using damage mechanics</i>
13:30	211 Valtonen, V.: <i>Dimensioning loads for the cross-deck of icebreaking trimarans</i>	048 Kharitonov, V.: <i>Evolution of internal structure of ice ridge investigated at «north pole - 38» and «north pole - 39» drifting stations</i>	169 Marchenko, A.: <i>Axially symmetric solutions of sea ice dynamics models with elastic-plastic and viscous-plastic rheology</i>
13:50	202 Ozeki, T., Sagawa, G.: <i>Field observation of seawater spray droplets impinging on upper deck of an icebreaker</i>		084 Kulyakhtin, S., Høyland, K., Astrup, O., Evers, K.: <i>Rubble ice transport on arctic offshore structures (RITAS), part III: analysis of model scale rubble ice stability</i>
14:10	COFFEE		
14:30	CLOSING CEREMONY - AUDITORIUM		