



Conference report

The 68th NTHS conference was held in Finland March 9 – 13.2015. Point of the NTHS conference is to present host country's maritime industry and generate connections among maritime students. 51 maritime students from Aalto University, KTH, NTNU, Chalmers and DTU took part in the conference.



Innovation and Technology

MEYER TURKU
SHIPYARD 1737

Presidents words

When I was appointed as next NTHS President in March of 2014 at Gothenburg I did not have a clue how big job and responsibility it will be. Arranging NTHS took hundreds of hours and I even one or two times I wished that quitting could be an option. Luckily I had an amazing team with me to do most of the work. Everyone worked so hard and had good motivation. Together we arranged conference, which we can be proud of.

In my opening speech I talked about the theme of this year's NTHS conference; respect. I was so happy that everyone took this theme and acted accordingly. Participants respected each other and the companies, hotels, restaurants and the laws of Finland. We did not get any complaints from hotels and not even one noise complaint from other guests this year. All the feedback form the companies were positive and the industry was very happy about the direction that NTHS is heading.

I was very happy to see how well the whole group merged together this year and by the end of the week many new friendships were made.

In year 2014 Finnish maritime industry went through big changes and managed to get new big contracts. This all meant that we had a lot to show for our guests this year. Almost all the companies that we contacted were very interested in working with us and this really showed in their presentations and very professional company visits. I want to thank all our sponsors and the companies that arranged excursions for us. Special thanks goes to Mr. Reko-Antti Suojanen and Aker Arctic for being our main sponsors.

I wish good luck to my friend Kjell, the next NTHS President. I'm confident that our friends from KTH will arrange amazing conference next year and keep the NTHS traditions alive!

Esa Takkinen

NTHS President 2015



President of NTHS giving a speech about history of Otaniemi campus in traditional NTHS way

Aker Arctic

Profitable and sustainable concepts for icy waters



Double Acting Ship (DAS™) MT "Tempera" in the Gulf of Finland during in severe ice winter 2003.



DAS™ shuttle tanker "Vasily Dinkov" at Varandey Foirt in the Barents Sea.



The world's first oblique icebreaking emergency and rescue vessel "Baltika" delivered in 2014 from Arctech Helsinki Shipyard can break sideways 50 m wide channel in 0.6 m thick ice.



DAS™ Arctic container ship "Norilskiy Nickel", delivered in 2006 is developed for autonomous operation on the Northern Sea Route.



The new icebreaker of the Finnish Transport Agency features the highest technology and has been designed especially for the demanding icebreaking operations in the Baltic Sea.
She will use both diesel and LNG as its fuel, which diminishes her emissions and operating costs.
She will also be equipped for oil spill response operations and emergency towing missions. Delivery 2016.



Multipurpose Harbour Icebreaker Trimaran Tug is one of the latest innovations in icebreaking.
The concept was able to create a channel twice the width of a channel of a traditional icebreaker, but with the same propulsion power!



Aker Arctic was a member in the team led by local STX Canada Marine that have been awarded the contract to design the new polar icebreaker "John G. Diefenbaker" for the Canadian Coast Guard.
The polar icebreaker will be designed to accommodate 100 personnel with space for 25 additional people and have the ability to break through 2.5 m of ice at 3 knots.

Monday 9.3.2015

The NTHS 2015 week started in the port of Turku, where the committees arrived in the Monday morning after meeting and greeting in Stockholm last night. The ferry ride overnight was full of getting-to-know each other and having fun.

The bus took the NTHS party first to visit Meyer Turku Shipyard, where there was also a tour around Mein Schiff 4, and only one time pliers were needed in the aftermath of Finnish-Swedish mingling involving a measurer and a cable tie... The tour itself was very informative and in detail, which is something that was highly appreciated among the participants.



Group photo of NTHS delegation in front of Mein Schiff 4 at Meyer Turku Shipyard

After having a lunch served at Meyer Turku, the NTHS party headed northwards to Rauma, where there was an exclusive accommodation waiting at Kuntosumppu and an evening hosted by Steerprop. First we listened what Steerprop had to say and then they showed us what they do, which is azimuthing propulsion units for demanding needs in the arctic for example.

After the factory tour, where there were a lot of questions and joint efforts to rotate huge propellers, the evening continued at Restaurant Aarnkari, operated by a very friendly and lovely couple. The food was delicious and the company was even better! That night, the whole party ended up in a Jail (bar), where some local dude thought it was a good idea to sing Dirlandaa by Kai Hyttinen in karaoke, resulting in a quite a popular demand for that specific song throughout the week...

Tuesday 10.3.

The second day of NTHS started with a wake-up around 8 o'clock at Kuntosumppu hotel. Breakfast was served at the hotel cafeteria and the bus left 8:45. We only had a short drive to Rolls-Royce, the first company of the day. We were greeted by Joakim Konsin, a fellow naval architect working with azimuth thrusters at the company. He gave us a very good presentation about Rolls-Royce in general and the thrusters they supply. After that we were given a tour at their production facilities where we got to see the thrusters in making. Since we were at Rauma harbor with a little bit of extra time, we were given the opportunity to visit the multipurpose ice breaker Fennica, which was in the harbor for some maintenance work. Most of us had never been on board an ice breaker, so we were glad to get a chance to visit one.

After Rolls-Royce, we boarded the bus again and headed to Vaasa, three hours north.



Rolls-Royce



Dance "Dirlandaa" was also seen at the bus

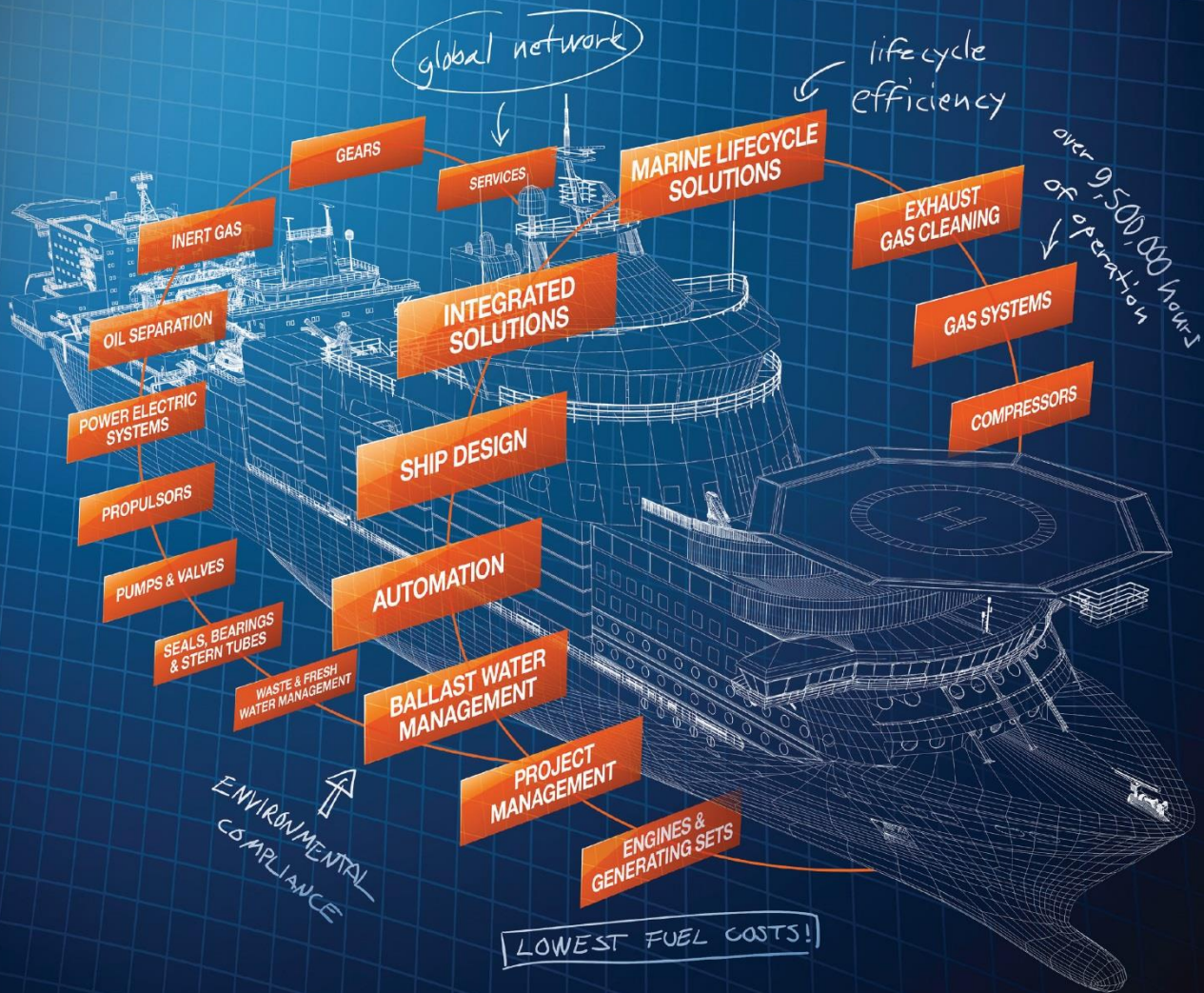
The Bus trip to Vaasa was epic. Although we arrived a little late to our destination, the trip was one that nobody will forget, especially the driver. After shortly unpacking luggage to local Omena Hotel, we got on the bus again and headed to Wärtsilä not five minutes away.

At Wärtsilä we were welcomed by Matias Jansson, and the group was divided to two: half stayed in an old train station listening an interesting presentation about the company while rest went to a factory tour to see some engine blocks while they were assembled, which followed another tour through the R&D department, where we got to see the testing facilities.

Great excursion followed a dinner at local Central Restaurant, where we still got to talk to the company presentative, and Esa got to his pants down again, a habit for him by then. After dinner the evening continued in nearby Oliver's Inn until the next morning...

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WHAT WE HAVE BUT

WHAT YOU NEED



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WÄRTSILÄ: YOUR SHORTER ROUTE



Wednesday 11.3

Wednesday started with an early wakeup in Vaasa after which the long 5-hour bus drive from Vaasa to Turku started. Little before noon, the bus arrived in sunny Turku. The weather was perfect as the delegations were having lunch at Forum Marinum Maritime Centre.

After the lunch, the seminar started on board the traditional Finnish sailing ship Suomen Joutsen. The exhibition and the seminar were made possible by the companies Deltamarin, Almaco, Evac and Turku Repairyard which each had the chance to present their own companies for the international audience.

An advertisement for Evac featuring a circular logo with the word "Evac" in white on a green background, with a blue wave-like shape below it. To the right of the logo is the text "Cleantech Solutions. Anywhere." in blue. Below this is the headline "WHATEVER YOUR NEED, EVAC HAS YOU COVERED" in blue. A paragraph of text describes Evac's services, and the website "www.evac.com" is listed. At the bottom, four interlocking puzzle pieces are shown, each representing a different service: "Wastewater Treatment" (orange), "Dry & wet waste Treatment" (green), "Vacuum collection" (blue), and "Freshwater systems" (light blue).

Evac *Cleantech Solutions. Anywhere.*

WHATEVER YOUR NEED, EVAC HAS YOU COVERED

Evac designs and manufactures environmentally friendly water, waste and wastewater collection and treatment systems for shipbuilding, offshore and construction industries. Brought to you by our greentech engineering professionals all over the world, our solutions have been fitted in more than 12,000 ships and land-based installations since 1975.

www.evac.com

Wastewater Treatment

Dry & wet waste Treatment

Vacuum collection

Freshwater systems

After the seminar, the delegations entered back on the bus and the journey from Turku to Helsinki started. After the arrival at Helsinki we had a brief stop at the hotel to leave the luggage there after which the group headed to NAPA office.

We arrived to this company visit a little bit behind schedule but luckily the dinner was ready waiting. People from NAPA held presentations giving a comprehensive overview of the company.

After the dinner and presentations everyone headed upstairs for the first sauna party of the week! Although everyone had a lot of sitting on the bus during the day the mood was high and people enjoyed themselves.

Thursday 12.3.

In the morning we woke up at the Omena hotel. We left to Aalto University by buss and had breakfast. In Aalto University, Jani Romanoff presented us a speech about the future of Finnish shipbuilding and the studies in naval architecture. Jani got a lot of positive response from the NTHS participants. After the presentation Aalto University offered us lunch in the school canteen Kvarkki.

After lunch we headed to Ranta Sauna, where we had some time to relax. There was a warm sauna, a hot Jacuzzi and hotdogs. We also had a change to do winter swimming in the icy sea. The weather was amazing and the NTHS participants were really pleased with this activity. Then, we left to hotel to get ready for the shipyard and the evening activities.

We had a refreshing walk to Arctech Helsinki Shipyard. Weather was spring like and love was in the air. The shipyard held a very interesting speech about the history of Arctech and ongoing and future projects. Then we had the opportunity to go on a tour around the icebreaker Murmansk which was currently being constructed. The Steerprop units were being installed 24 hours a day by that time and the launching was about to happen in about two weeks.

The visit was culminated by the anecdote evening where all the delegations held presentations about given topics. The topics were:

Nul-Kryds: *"Gammel Norsk"*

Kungliga Skeppsällskapet: *"Submarine chase in the Stockholm skerries"*

Chalmers Skeppsbyggare: *"Non-existing shipbuilding in Göteborg"*

Mannhullet: *"When oil money runs out..."*

Laivanrakentajain Kerho: *"NTHS 2016 is secured"*

After the anecdotes the presidents of each delegations and one other member left for the Chairmans dinner at hotel Seurahuone and the others stayed at Arctech for a delicious dinner.

Later in the night we met the oldtimers at the karaoke bar and nightclub Swengi and everyone had a blast. We danced line dancing to the song "Daa-dirlan-dirlan-daa" by Kai Hyttinen all night long around the bar.



Some of the participants were brave enough to have a swim at the still partially frozen sea!

Friday 13.3.

Friday, the final day of the congress, started with a bus ride from Helsinki city centre to Vuosaari, the location of the major seaport of Helsinki. There also are located the next two companies that were visited, the main sponsor the congress Aker Arctic Technology Inc. and ABB Marine Systems. The participants were divided into two groups, Aker Arctic took one group and ABB took the other one for the excursion, and then the groups were changed between each other.

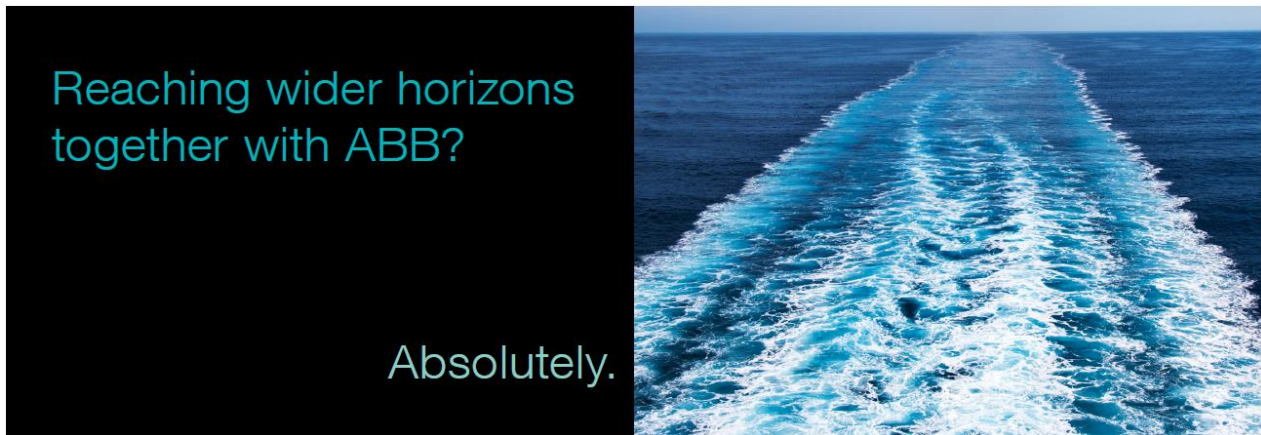


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Aker Arctic presented its services and history briefly. They talked about how is it like working in Aker Arctic, what differentiate them from other companies, and what they can offer and do for the customers. After the presentation, a model test was held in the ice laboratory and the participants saw the test from the water level and from beneath the test basin.

ABB presented their products and services briefly, concentrating on the azipod propulsors, which they produce in the same building's factory. After the presentation, the participants were taken to the factory to see the part of the factory and some Azipod propulsors.

The last day of the congress ended with spectacular Banquet annual party. The Banquet 2015 was held in legendary Tenaille von Fersen, located in Suomenlinna's Susisaari Island, next to the dry dock. The renovated banquet hall, built in 1775, takes place at the old granary of the fortification's bakery. The Tenaille von Fersen was decorated with an appropriated style and we managed to organize Banquet of the lifetime. In the banquet all the delectations presented their presents to hosting delegation. There were some amazing gifts. For example KTH brought us a ship model turned into disco. In banquet this year's Drukkenbolt was announced and Nikolas Øksdal Svoren was announced as new Drukkenbolt. He kept good mood going every day and his always happy mood really catch to others as well.



Nikolas Øksdal Svoren was selected as Drukkenbolt 2015 and icebreaking test at Aker Arctic

About midnight the party moved to privat venue, Basement24, just next to Kauppatori. The after party continued until morning with excellent mood provided by fantastic DJ. There were Big Mac's for night snack as well. Or were they cheese burgers...?



Tenaille von Fersen WAS the beautiful location for Banquet

