Sunday, 14 April
16:00h registration
17:00h NDAR Happy Hour (Oasi Neumann Sala Beato Angelo (Garden))
ONR Global Question & Answer with Dr. Michael A. Harper
*papers marked by asterisk only on internet

Monday, 15 April
Chair: Daniele Peri, Michael Harper
08:30h In Young Kang (NTNU) p.215
A Combination of Morphing Technique and Cartesian Grid Method for Rapid Generation of Objects and their Performances
09:00h Antonio Rodríguez, Leonardo Fernández (Univ Politécnica de Madrid) p.143
A CAD Development Strategy for the Next Years
09:25h Herbert Koelman (SARC) p.110
A Mid-Term Outlook on Computer Aided Ship Design
10:00h David Andrews (UCL) p.33
The True Nature of Ship Concept Design - And What It Means for the Future Development of CASD
10:15h coffee break
10:40h Yi-Fang Hsieh, Sing-Kwan Lee (ABS), Zhiyong Zhou (SDARI) p.437
On the Importance of Full-Scale CFD Simulations for Ships
09:00h Ju Young Kang (NTNU) p.215
Design Evaluation of Energy-Saving Device for Full Form Ship Propulsion
09:25h Fedor Titov, Axel Friedewald (TUHH) p.274
A Combination of Morphing Technique and Cartesian Grid Method for Rapid Generation of Objects and their Performances
09:50h Antonio Rodríguez, Leonardo Fernández (Univ Politécnica de Madrid) p.143
A CAD Development Strategy for the Next Years
10:15h coffee break
10:40h Yi-Fang Hsieh, Sing-Kwan Lee (ABS), Zhiyong Zhou (SDARI) p.437
Utilizing CAD/CAM Models for Ongoing Weight Estimation and Control
11:05h Nick Danese (NDAR), Runar Aasen (ShipWeight) p.334
A Combination of Morphing Technique and Cartesian Grid Method for Rapid Generation of Objects and their Performances
11:30h Shaun Hunter, Justin Freimuth (Maestro Marine), Nick Danese (NDAR) p.466
An Optimisation Methodology for Ship Structural Design using CAD/FEM Integration
11:55h Henner Eisen (Germanischer Lloyd) p.413
An Optimisation Methodology for Ship Structural Design using CAD/FEM Integration
12:30h lunch
12:30h Pancakes filled with mushrooms
Roasted beef with cheese sauce and leek salad
Chocolate tart
Chair: Benoit Mallol
14:00h Deguang Yan, Sing-Kwan Lee, et al. (ABS) p.450
CFD Virtual Model Basin Development for Offshore Applications
14:25h Eloise Croonenborghs, et al. (MARINTEK), S.A. Reinholdsen (Statoil) p.157
CFD Prediction of Wind and Current Loads on a Complex Semi-Submersible Geometry
14:50h Paul Groenenboom, P.J. Croaker, et al. (ESI) p.120
Innovative Smoothened Particle Hydrodynamics for Wave Impact Simulation on Ships and Platforms
15:15h Andreas Abel, Uwe Schreiber (ITI), Erik Werner (STRABAG) p.402
Bridging the Gap between Steady-State and Transient Simulation for Torsional Vibrations under Ice Impact
15:40h coffee break
Chair: Sam Saltiel, Ole Christian Astrup
16:10h Heikki Hansen, Karsten Hochkirch (FutureShip) p.76
Lean ECO-Assistant Production for Trim Optimisation

Tuesday, 16 April
Chair: Stefan Harries, Veronica Alonso
08:30h Karsten Hochkirch (FutureShip), Benoit Mallol (Numeca) p.85
On the Importance of Full-Scale CFD Simulations for Ships
09:00h Yi-Fang Hsieh, Sing-Kwan Lee (ABS), Zhiyong Zhou (SDARI) p.437
Design Evaluation of Energy-Saving Device for Full Form Ship Propulsion
09:25h Fedor Titov, Axel Friedewald (TUHH) p.274
Handling Human Models in Virtual Reality Applications with MS Kinect
11:05h Nick Danese (NDAR), Runar Aasen (ShipWeight) p.334
Exploiting Weight Data to Support Engineering and Corporate Decision-Making Processes
11:30h Shaun Hunter, Justin Freimuth (Maestro Marine), Nick Danese (NDAR) p.466
Utilizing a Robust Fatigue Screening Process for Initial Design and Throughout the Life-Cycle
11:55h Henner Eisen (Germanischer Lloyd) p.413
Utilizing a Robust Fatigue Screening Process for Initial Design and Throughout the Life-Cycle
12:30h lunch
Lasagne with artichokes and pork sauce
Rabbit Cortonese style with spinach salad
Tiramisu
Chair: Shaun Hunter, Nick Danese
14:00h Veronica Alonso, Carlos Gonzalez, Rodrigo Perez (SENER) p.195
Efficient Use of 3D Tools at Early Design Stages
14:25h David Thomson (AVEVA), Philippe Renard (Bureau Veritas) p.363
The Digital Handover - Shipyards as Producers of Life-Cycle Maintenance Models?
14:50h Heiko Duan (BIBA), Markus Lehne et al. (BIBA) p.425
Application of Cross-Impact Analysis to Evaluate Innovations in the Cruise Industry
15:15h Morgan Parker, David Singer (University of Michigan) p.96
The Impact of Design Tools: Looking for Insights with a Network Theoretic Approach
15:40h coffee break
Chair: Paul Roberts, Matthias Grau
16:10h Paul Roberts (Lloyd’s Register), Tom Macadam (Martec), Neil Pegg (DRDC) p.301
Multiple Simulation Assessments from a Single Ship Product Model
16:35h Thomas Gosch (Flensburger SG) p.167
Vibrations under Ice Impact
17:00h Wei Qiu (University of New Foundland)*
Seakeeping Analysis Suite for Ships and Offshore Structures
Wednesday, 17 April

Chair: Luigi Ostuni, Andrea Caiti

08:30h Valery Mrykin, Alexander Leshchina (Rubin), et al. (Trapeznikov Inst.) p.21
Use of Current Computer Simulation Technologies in the Development of Ship Control Systems

09:00h Andrea Caiti, Daniele Meucci, et al. (Univ. Pisa) p.380
Distributed Cooperative Algorithms for Autonomous Underwater Vehicles in Marine Search Missions

09:25h Gabriele Bruzzone, Marco Bibuli, et al. (ISSIA) p.63
Cooperative Autonomous Robotic Towing System – Exploitation of Autonomous Marine Vehicles in Emergency Towing Procedures

09:50h Alberto Alvarez, Jochen Horstmann (NURC) p.208
Towards the Estimation of Directional Wave Spectra from Measured Glider Responses

10:15h coffee break

Chair: Hans-Günther Mütze, Andreas Abel

10:40h Vittorio Bucci, Alberto Marinò (University of Trieste), Igor Juricic (Intergraph) *
Integrated Ship Design: Automated Generation of Production Deliverables with New-Generation Shipbuilding CAD Systems

11:05h Stefan Harries (Friendship Systems), E. Dölérud (Minesto), Pierre Sames (GL) p.348
Port Efficiency Simulations for the Design of Container Carriers

11:30h Thomas Koch (Atlantec ES), et al. (Strathclyde Univ.) p.225
Analysis of Economic and Environmental Performance of Retrofits using Simulation

11:55h Thomas Porathe (Chalmers TU), et al. (Fraunhofer,Marintek) p.177
Maritime Unmanned Navigation through Intelligence in Networks: The MUNIN Project

12:30h lunch

Chair: Hans-Günther Mütze, Andreas Abel

14:00h Benjamin P. Pedersen (FORCE Technology), Jan Larsen (Danish TU) *
Gaussian Process Regression for Evaluation Ship Propulsion Performance

14:25h Sami Salonen, Aatos Heikkinen (Eniram) p.293
Robust Characterization of Ship Power Plant Fuel Efficiency

14:50h Pyry Avist, Jussi Pjörre (Eniram) p.283
Modeling the Impact of Significant Wave Height and Wave Vector using an On-board Attitude Sensor Network

15:15h Jukka Ignatius, et al. (ABB), Jaap-Jan Stoker, Tim Ellis (Amarcon) p.184
A Comprehensive Ship Performance Management Solution

15:40h coffee break

Chair: Benjamin Pedersen

16:10h Luigi Ostuni et al. (Apphia), Angelo Corallo (Univ. of Salento) p.238
An On-board Expert System for Damage Control Decision Support

16:35h Ole John, Michael Böttcher, Carlos Jahn (Fraunhofer Center CML) p.327
Decision Support for the Crew Scheduling Problem in Ship Management

17:00h Geir L. Olsen (Jeppesen Norway AS) p.135
E-Navigation Starts with E-VoyagePlanning

19:00h GL Tuscan Dinner

Chair: Luigi Ostuni, Andrea Caiti

08:30h We thank our sponsors: ABB, Apphia, AVEVA, BETA CAE Systems, CD-adapco, Det norske Veritas, FORCE Technology, GL Group, Intergraph, ITI, Lloyd’s Register, MAESTRO Marine, NAPA, Numeca, SARC, SENER, ShipConstructor Software, ShipWeight

This year’s GL Compit Award Laureate: Herbert Koelman