

**7th International Conference on
Computer Applications and Information Technology in the Maritime
Industries**

COMPIT 08

PROGRAM (on 1st April 2008)

Liege, Belgium, 21-23 April 2008



Hotel Bedford, 36 Quai Saint Léonard,

4000 LIEGE-BELGIUM

http://www.anast.ulg.ac.be/COMPIT08/hotel_location.php

<http://www.bedfordhotelliege.com/location.php>



*With the financial support of the National Funds of Scientific Research of Belgium (FNRS)
and the University of Liège*

■ **MONDAY, 21st APRIL 2008, Hotel Bedford (1st Floor)**

○ **SESSION 1: – Chair: Volker Bertram, Philippe Rigo**

- 08:55h Fernando Alonso, Carlos Gonzalez, Antonio Pinto, Fernando Zurdo
Integrated Management of Ship Compartments
- 09:25h Thomas Brathaug, Jon Olav Holan, Stein Ove Erikstad
Representing Design Knowledge in Configuration-Based Conceptual Ship Design
- 09:50h Tomi Holmberg
Comprehensive Structural Design Package for Bulk Carriers
- 10:15h François-Xavier Dumez, et al., Volker Bertram
A Tool for Rapid Ship Hull Modelling and Mesh Generation

Coffee break

○ **SESSION 2: – Chair: Stefan Krüger**

- 11:05h Arnulf Hagen, Audun Grimstad
Customised Ship Design = Customised Ship Design Environments
- 11:30h Vidar Vindøy
A Functionally Oriented Vessel Data Model Used as Basis for Classification
- 11:55h Matthias Grau, Carsten Zerbst, Markus Sachers
Building the Business Process View into Shipbuilding Data Exchange
- 12:20h Darko Frank, Alan Klanac, Svemir Bralic
A Concept for Concurrent Group Design of Ships

Lunch break

*Ravigote de crevettes roses et tartare de tomates, vinaigrette crémée au safran
Demi-coquelet sauce Stroganov, lamelles de pommes de terre à l'ancienne
Profiteroles à la crème fraîche et coulis de chocolat
Café & two glasses of drinks (wine or softdrink)*

○ **SESSION 3: - Chair: Aji Purwanto**

- 14:30h Marc Wilken, Christian Cabos, Wiegand Grafe
Using CAD Data for Computation and Assessment of Global Ship Structures
- 14:55h Rachel Nicholls-Lee, Stephen Turnock, Stephen W. Boyd
Simulation-based Optimisation of Marine Current Turbines
- 15:20h Patrick Queutey, Michel Visonneau, et al.
Computation for a US Navy Frigate Advancing in Head Waves in Fixed and Free Conditions
- 15:45h Antti Metsä, Pekka Ruponen, Christopher Ridgewell, Pasi Mustonen
Flooding Simulation as a Practical Design Tool

Coffee break

○ **SESSION 4: - Chair: Hans-Günther Mütze**

- 16:40h Liming Salvino, Thomas F. Brady
Hull Monitoring System Development using a Hierarchical Framework for Data and Information Management
- 17:05h Christian Cabos, David Jaramillo, Philippe Renard, et al.
Condition Assessment Scheme for Hull Maintenance

Evening : Social event sponsored by Bureau Veritas and DN&T (see next page)

Social event sponsored by Bureau Veritas and DN&T

- 18:30 *Bus transfer from Hotel Bedford to University of Liege*
19:00 *Welcome*
Drinks
19:15 *Bureau Veritas Award*
19:45 *Visit of Towing Tank (2 groups) &*
Technical presentations of ANAST and DN&T
Refreshments and light dinner, served continuously
21:30 *Bus back to Hotel Bedford*



Alternatively use your own transport to
University - Towing tank - Sart Tilman Parking B52 - Building B52
(Cocktail: Building B52, Level 0, in the main lobby)
1 chemin des Chevreuils, 4000 Liège
Map : <http://www.anast.ulg.ac.be/main.php?LGID=2&MID=11>



■ TUESDAY, 22nd APRIL 2008, Hotel Bedford (1st Floor)

○ **SESSION 5: - Chair: Yvonne Masakowski**

- 08:30h Jeroen F.J. Pruyn, Ubald Nienhuis, Eddy van de Voorde, Hilde Meersman
Towards a Consistent and Dynamic Simulation of Company Behaviour in the Maritime Sector
09:00h Wilfried Abels, Lars Greitsch
Using a Bridge Simulator during the Early Design-Stage to Evaluate Manoeuvrability
09:25h Karl Gunnar Aarsæther, Torgeir Moan
Autonomous Traffic Model for Ship Maneuvering Simulations based on Historical Data
09:50h Shinpei Watanabe, Kazuhiro Hasegawa, Philippe Rigo
Inland Waterway Traffic Simulator
10:15h Robert G. Hekkenberg
Development of a Rapid Conceptual Design Method for Inland Ships

Coffee break

○ **SESSION 6: - Chair: Michel Visonneau**

- 11:05h Andrea Caiti, Giuseppe Casalino, Alessio Turetta, Riccardo Viviani
Distributed Dynamic Programming for Adaptive On-line Planning of AUV Team Missions with Communication Constraints
11:30h Thomas Haberkorn, Monique Chyba, Ryan Smith, Song. K. Choi, Giacomo Marani, Chris McLeod
Efficient Control of an Autonomous Underwater Vehicle while Accounting for Thruster Failure
11:55h Thomas Glotzbach, Matthias Schneider, Peter Otto
Multi System Mission Control for Teams of Unmanned Marine Vehicles – Software Structure for Online Replanning of Mission Plans
12:20h Yvonne Masakowski
Cognition-Centric Systems Design

Lunch break:

Frisée aux lardons à la crème de herbe doux
Filet de porcelet sauce bourgeoise et lamelles de pommes de terre à l'ancienne
Soufflé glacé au Grand Manier
Café & two glasses of drinks (wine or softdrink)

○ **SESSION 7: - Chair: Bart van Oers**

- 14:30h David Andrews, Lorenzo Casarosa, Richard Pawling
Interactive Computer Graphics and Simulation in Preliminary Ship Design
- 14:55h Thomas Gosch, Sandra Schrödter
SESiS – Ship Design and Simulation System
- 15:20h Cassiano M. Souza, Rafael Tostes
Shipbuilding Interim Product Identification and Classification System based on Intelligent Analysis Tools
- 15:45h Charles Forrest
Development of an Innovative Surface Design Tool

Coffee break

○ **SESSION 8: - Chair: Jan Tellkamp, Thomas Gosch**

- 16:40h Jan Tellkamp et al.
ADOPT – Advanced Decision Support System for Ship Design, Operation and Training – An Overview
- 16:55h Heinz Günther, et al.
ADOPT DSS – Ocean Environment Modelling for Use in Decision Making Support
- 17:10h Stefan Krüger, Florian Kluwe, Hendrik Vorhölder
Decision Support for Large Amplitude Roll Motions based on Nonlinear Time-Domain Simulations
- 17:25h Dimitris Spanos, Apostolos Papanikolaou, George Papatzanakis, Jan Tellkamp
Onboard Assessment of Seakeeping for Risk-Based Decision Support to the Master
- 17:40h Dirk Wittkuhn, Karl-Christian Ehrke, John Koch Nielsen
ADOPT – Man-Machine Interface and Training

GL Compit Award

■ **WEDNESDAY, 23rd APRIL 2008, Hotel Bedford (1st Floor)**

○ **SESSION 9: - Chair: Volker Bertram**

- 08:55h Rowan Van Schaeren, Wout Dullaert, Birger Raa
Enriching the Berth Allocation Problem
- 09:25h Carlos V.M. Santos
Production Simulation Applied to Military Shipbuilding
- 09:50h Marcus Bentin, Folgert Smidt, Steffen Parth
Process Modelling and Simulation using CAD data and PDM in Early Stage of a Shipbuilding Project
- 10:15h Jean-David Caprace, Frederic Bair, Nicolas Losseau, Renaud Warnotte, Philippe Rigo
OptiView – A Powerful and Flexible Decision Tool Optimising Space Allocation in Shipyard Workshops

○ **SESSION 10: - Chair: Thomas Gosch**

- 11:05h Björn Weidemann, Ralf Bohnenberg, Martin-Christoph Wanner
Shipyards Investment Planning by Use of Modern Process-Simulation and Layout-Planning Tools
- 11:30h Steven J. Deere, Edwin R. Galea, Peter J. Lawrence
Assessing the Suitability of Ship Design for Human Factors Issues Associated with Evacuation and Normal Operations
- 11:55h Yves Le Therisien, Chantal Mais
Virtual Reality – Tool of Assistance to the Design of the Warship's Complex Systems
- 12:20h Rafael Doig, Patrick Kaeding
Multi-Body Simulation of a Loading Operation

Lunch break:

Tartare de saumon sauce aigrette
Suprême de pintadeau et éventail de mangue, coulis de citron vert monté au beurre et baies roses,
galette parmentière
Tiramisu Maison
Café & two glasses of drinks (wine or soft drink)

○ **SESSION 11: Chair: André Hage**

- 14:30h Andi Asmara, Ubald Nienhuis
Optimum Routing of Piping in Real Ships under Real Constraints
- 14:55h Adam J Sobey, J.I.R. Blake, Ajit Sheno
Optimization of Composite Boat Hull Structures
- 15:20h Takakazu Nakamori, Mitsuru Kitamura, Kunihiro Hamada
Optimization of Arrangement of Longitudinal Members on Shell Plate at Fore and Aft Parts of Ship
- 15:45h Hao Cui, A. Ölcer, Osman Turan
An Improved Particle Swarm Optimisation (PSO) Approach in a Multi Criteria Decision Making Environment

○ **SESSION 12: - Chair: Philippe Rigo, Alan Klanac**

- 16:40h Hamid Hefazi, Adeline Schmitz, Igor Mizine, Geoffrey Boals
Multi-Disciplinary Synthesis Design and Optimization for Multi-Hull Ships
- 17:05h Philippe Rigo et al.
IMPROVE - Design of Improved and Competitive Products using an Integrated Decision Support System for Ship Production and Operation
- 17:20h Obrad Kuzmaniv, Pero Prebeg, et al.
Development of a New Innovative Concept of Ropax Ship
- 17:35h Catalin Toderan et al.
Structural Optimization of a 220 000 m³ LNG Carrier
- 17:50h Alan Klanac, et al.
Structural Omni-Optimization of a Tanker

Dinner Wednesday – 23rd April 19:30

Conference dinner sponsored by Germanischer Lloyd

Domaine de Lintillac
Rue Saint-Gilles 25
4000 LIEGE, Belgium
Tel : +32 42231201

Foie Gras de Canard et sa gelée au Monbazillac
Magret de Canard Mulard, pommes sarladaises
Coupe Corrèzienne
½ bottle of Monbazillac
½ bottle of mineral water

Transport at own cost; 30 min walk or taxi (5-7 Euro)

See map on:

<http://www.anast.ulg.ac.be/COMPIT08/RestoLocation.php>

CONFERENCE SPONSORS



CONTACTS:

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