Auditorium *(11h00-12h30)*	***Room 02.1*** *(11h00-12h30)*
Session: A9: Methods and Tools for Strength Assessment - Fatigue and Fracture II	**Session: B9:** Structural reliability, safety and environmental protection - Ship Structural Reliability
Structural integrity monitoring index for ship and offshore structures, *Bart de Leeuw & Feargal Brennan*	Structural reliability of the ultimate hull girder strength of a PANAMAX container ship, *Jörg Peschmann, Clemens Schiff & Viktor Wolf*
A study on a method for maintenance of ship structures considering remaining life benefit, *Yasumi Kawamura, Yoichi Sumi & Masanobu Nishimoto*	Sensitivity Analysis of the Ultimate Limit State Variables for a Tanker and a Bulk Carrier, *A. W. Hussein & C. Guedes Soares*
Effect of uncertain weld shape on the structural hot-spot stress distribution, *B. Gaspar, Y. Garbatov & C. Guedes Soares*	Ultimate strength and reliability assessment of laminated composite plates under axial compression, *N. Yang, P.K. Das & XiongLiang Yao*
Lunch (12h30-14h00)	
Auditorium *(14h00-15h30)*	***Room 02.1*** *(14h00-15h30)*
Session: A10: Methods and tools for structural design and optimization	**Session: B10:** Environmental impact **Session B11:** Structural Monitoring
Structural design of a medium size passenger vessel with low wake wash, *Dario Boote & Donatella Mascia*	Assessment of ice-induced loads on ship hulls based on continuous response monitoring, *B.J. Leira, Lars Børsheim, Øivind Espeland & J. Amdahl*
Multi-objective optimization of ship structures: using guided search vs conventional concurrent optimization, *Jasmin Jelovica & Alan Klanac*	Structural monitoring of mast and rigging of sail ships, *Giovanni Carrera, Cesare Mario Rizzo & Matteo Paci*
Digital prototyping of hull structures in basic design, *José Varela, Manuel Ventura & C. Guedes Soares*	Modelling of environmental impacts of ship dismantling, *I.S. Carvalho, P. Antão & C. Guedes Soares*
	Fuel consumption and exhaust emissions reduction by dynamic propeller pitch control, *Massimo Figari & C. Guedes Soares*
End of Conference	

Conference Schedule

Conference **Welcome Reception** on Sunday, 15th March 2009 at 15h30

Lunches will be served daily at the Hotel Holiday Inn between 12h30 and 14h00

Conference Dinner on Tuesday, 17th March at 20h00

MARSTRUCT 2009 Conference Secretariat

Centre for Marine Technology and Engineering (CENTEC)

Instituto Superior Técnico

marstruct2009@mar.ist.utl.pt

MARSTRUCT 2009

Analysis and Design of Marine Structures

2nd International Conference on Marine Structures

Lisbon, 16 - 18 March 2009

www.mar.ist.utl.pt/marstruct/marstruct2009

PROGRAMME

Monday, 16th March 2009

Instituto Superior Técnico – Congress Centre (*Civil Engineering Building*)	
Registrations (*Hall 01 – 08h00 onwards*)	
Opening and Plenary Sessions (*Auditorium – 09h00-10h30*)	
Interval (10h30-11h00)	
Auditorium *(11h00-12h30)* **Session A1:** Methods and Tools for Strength Assessment - Ultimate Strength I	***Room 02.1*** *(11h00-12h30)* **Session: B1:** Materials and fabrication of structures - Welded Structures
Discussion of plastic capacity of plating subject to patch loads, *Claude Daley & Apurv Bansal*	The importance of welding quality in ship construction, *Philippa Moore*
Ultimate strength characteristics of aluminium plates for high speed vessels, *S. Benson, J. Downes & R.S. Dow*	A Data Mining Analysis to evaluate the additional workloads caused by welding distortions, *Nicolas Losseau, Jean David Caprace, Philippe Rigo & Fernandez Francisco Araci*
Improving the shear properties of web-core sandwich structures using filling material, *Jani Romanoff, Aleksi Laakso & Petri Varsta*	3D numerical model of austenitic stainless steel 316L multipass butt welding and comparison with experimental results, *A.P. Kyriakongonas & V.J. Papazoglou*
Lunch (12h30-14h00)	
Auditorium *(14h00-15h30)* **Session A2:** Methods and Tools for Strength Assessment - Ultimate Strength II	***Room 02.1*** *(14h00-15h30)* **Session B2:** Materials and fabrication of structures - Adhesive Joints
Stability of flat bar stiffeners under lateral patch loads, *Jacob Abraham & Claude Daley*	Fabrication, testing and analysis of steel/composite DLS adhesive joints, *S. Hashim, J. Nisar, N. Tsouvalis, K. Anyfantis, P. Moore, I. Chirica, C. Berggreen, A. Orsolini, A. Quispitupa, D. McGeorge, B. Hayman, S. Boyd, K. Misirlis, J. Downes & R. Dow & E. Juin*
Ultimate strength of stiffened plates with local damage on the stiffener, *M. Witkowska & C. Guedes Soares*	The effect of surface preparation on the behaviour of double strap adhesive joints with thick steel adherents, *K.N. Anyfantis & N.G. Tsouvalis*
Approximate method for evaluation of stress-strain relationship for stiffened panel subject to tension, compression and shear employing the finite element approach, *Maciej Taczala*	Pultrusion characterisation for adhesive joints, *J.A. Nisar, S.A. Hashim & P.K. Das*
Interval (15h30-16h00)	
Auditorium *(16h00-17h30)* **Session: A3:** Methods and Tools for Strength Assessment - Ultimate Strength III	***Room 02.1*** *(16h00-17h30)* **Session: B3:** Materials and fabrication of structures - Buckling of Composite Plates
Residual strength of damaged stiffened panel on double bottom ship, *Zhenhui Liu & Jorgen Amdahl*	Studies of the buckling of composite plates in compression, *B. Hayman, C. Berggreen, C. Lundsgaard-Larsen, A. Delarche, H. L. Toftegaard, R.S. Dow, J. Downes, K. Misirlis, N. Tsouvalis & C. Douka*
Assessment of the hull girder ultimate strength of a bulk carrier using nonlinear finite element analysis, *Zhi Shu & Torgeir Moan*	Buckling strength parametric study of composite laminated plates with delaminations, *N.G. Tsouvalis & G.S. Garganidis*
Ultimate strength performance of Suezmax tanker structures: Pre-CSR versus CSR designs, *J.K. Paik, D.K. Kim & M.S. Kim*	Buckling behaviour of the ship deck composite plates with cut-outs, *Ionel Chirica, Elena-Felicia Beznea & Raluca Chirica*
	Buckling behaviour of plates with central elliptical delamination, *Elena-Felicia Beznea, Ionel Chirica & Raluca Chirica*

Tuesday, 17th March 2009

Registrations (*Hall 01 – 08h30 onwards*)	
Auditorium *(09h00-10h30)* **Session: A4:** Methods and Tools for Strength Assessment - Finite element analysis I	***Room 02.1*** *(09h00-10h30)* **Session: B4:** Methods and Tools for Strength Assessment - Coatings and Corrosion I
Methods for hull structure strength analysis and ships service life evaluation, for a large LNG carrier, *Leonard Domnisoru, Ionel Chirica & Alexandru Ioan*	Large scale corrosion tests, *Pawel Domzalicki, Igor Skalski, Yordan Garbatov & C. Guedes Soares*
Parametric investigation on stress concentrations of bulk carrier hatch corners, *Dario Boote & Francesco Cecchini*	Anticorrosion protection systems – improvements and continued problems, *Anders Ulfvarson & Klas Vikgren*
A study on structural characteristics of the ring-stiffened circular toroidal shells, *Qing-hai Du, Zheng-quan Wan & Wei-cheng Cui*	Prospects of application of plasma electrolytic oxidation coatings for shipbuilding, *Alexander Minaev, Natalie Gladkova, Sergey Gnedenkov & Vladimir Goriaynov*
Interval (10h30-11h00)	
Auditorium *(11h00-12h30)* **Session: A5:** Methods and Tools for Strength Assessment - Finite element analysis II	***Room 02.1*** *(11h00-12h30)* **Session: B5:** Methods and Tools for Strength Assessment - Coatings and Corrosion II
Application developments of mixed finite element method for fluid-structure interaction analysis in maritime engineering, *Jing Tang Xing, Ye Ping Xiong & Mingyi Tan*	Corrosion wastage statistics and maintenance planning of corroded hull structures of bulk carriers, *Yordan Garbatov & C. Guedes Soares*
Efficient calculation of the effect of water on ship vibration, *Marc Wilken, G. Of, C. Cabos & O. Steinback*	Numerical simulation of strength and deformability of steel plates with surface pits and replicated corrosion-surface, *Md. Mobesher Ahmmad & Yoichi Sumi*
Finite element simulations of ship collisions: a coupled approach to external dynamics and inner mechanics, *Ingmar Pill & Kristjan Tabri*	Effect of pitting corrosion on the collapse strength of rectangular plates under axial compression, *S. Saad-Eldeen & C. Guedes Soares*
Lunch (12h30-14h00)	
Auditorium *(14h00-15h30)* **Session: A6:** Methods and Tools for Loads and Load Effects I	***Room 02.1*** *(14h00-15h30)* **Session: B6:** Methods and Tools for Strength Assessment - Impact Strength
A study on the effect of heavy weather avoidance on the wave pressure distribution along the midship transverse section of a VLCC and a bulk carrier, *Zhi Shu & Torgeir Moan*	Impact behaviours of GRP, aluminium and steel plates, *L.S. Sutherland & C. Guedes Soares*
Comparison of experimental and numerical sloshing loads in partially filled tanks, *S.Brizzolara, L.Savio, M.Viviani, Y.Chen, P.Temarel, N.Couty, S.Hoflack, L.Diebold, N. Moirod & A.Souto Iglesias*	Impact damage of MARK III type LNG carrier cargo containment system due to dropped objects: An experimental study, *J.K. Paik, B.J. Kim, S.H. Kim, M. K. Ha, Y. S. Suh & S. E. Chun*
Experiments on a damaged ship section, *T.W.P Smith, K.R. Drake & P. Wrobel*	Simulation of the response of double bottoms under grounding actions using Finite Elements, *I. Zilakos, M. Toulios, M.S. Samuelides, T.-H. Nguyen & J. Amdahl*
Interval (15h30-16h00)	
Auditorium *(16h00-17h30)* **Session: A7:** Methods and Tools for Loads and Load Effects II	***Room 02.1*** *(16h00-17h30)* **Session: B7:** Methods and Tools for Strength Assessment - Fire and explosion
Estimation of parametric rolling of ships - comparison of different probabilistic methods, *Jelena Vidic-Perunovic & Jørgen Juncher Jensen*	CFD simulations on gas explosion and fire actions, *J.K. Paik, B.J. Kim, J. S. Jeong, S.H. Kim, J.S. Jang, G. S. Kim, J. H. Woo, Y. S. Kim, M. J. Chun, Y. S. Shin & J. Czujko*
Local hydro-structure interactions due to slamming, *S. Malenica, F.X. Sireta, S. Tomasevic, J. Tuitman & I. Schipperen*	The effects of reliability-based vulnerability requirements on blast-loaded ship panels, *S.J. Pahos & P.K. Das*
Conference Dinner – 20h00	

Wednesday, 18th March 2009

Registrations (*Hall 01 – 08h30 onwards*)	
Auditorium *(09h00-10h30)* **Session A8:** Methods and Tools for Strength Assessment - Fatigue and Fracture I	***Room 02.1*** *(09h00-10h30)* **Session: B8:** Structural reliability, safety and environmental protection - Still water loads
Fracture mechanics procedures for assessing fatigue life of window and door corners in ship structures, *Mika Bäckström & Seppo Kivimaa*	Probabilistic presentation of the total bending moments of FPSO's, *Lyuben D. Ivanov, Albert Ku, Beiging Huang & Viviane C. S. Krzonkala*
Experimental and numerical fatigue analysis of partial-load and full-load carrying fillet welds at doubler plates and lap joints, *O. Feltz & W. Fricke*	Stochastic model of the still water bending moment of oil tankers, *L. Garrè & Enrico Rizzuto*
Global strength analysis of ships with special focus on fatigue of hatch corners, *Hubertus von Selle, Olaf Doerk & Manfred Scharrer*	Statistics of still water bending moments on double hull tankers, *Joško Parunov, Maro Ćorak & C. Guedes Soares*
Interval (10h30-11h00)	