

PETER DIMITRIOS CONTRAROS

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PROFESSIONAL EXPERIENCE

- July 2005 – Present - Director of PDC Marine Consultants Ltd (from 2017), Theta Maritime SA (2009) Naval Architects and Marine Consultants
- June 1974 – July 2005 - Principal Engineer Specialist at ABS (American Bureau of Shipping - Class Society)

Present: Director of PDC Marine Consultants Ltd

PDC Marine Consultants are Naval Architects & Marine Corrosion Consultants operating from UK London, and Greece/Cyprus via representatives and associates. The technical consultancy involves the following areas and client:

- Consultant to the UGS (*Union of Greek Ship Owners*), who render our services to the Greek Administration in IMO, with regard to the new regulations addressing structural safety of Ships and Offshore Structures.
- Consultant to the Greek Chamber of Shipping CSR-Harmonised for Bulk Carriers & Oil Tankers
- Consultant to INTERCARGO on CSR-Harmonised for Bulk Carriers & Oil Tankers
- Consultants to several *Greek Ship-Owners and Ship Operators* for the plan approval and ship construction of new ships, design & supervise repairs of ships in service at many European and Pacific Shipyards (China, Korea and Japan). In addition, our involvement includes assessment of contracts and specifications for the new ship buildings, assessment of shipyards for their suitability to carry out the work in contracted time and the best quality for the purchase price, provision of suitable personnel for inspection of the vessel during construction on the owner's behalf (to assure compliance with the contracted specifications), managing and consulting the personnel on site, design repairs and advising/supervising the repairs of ships in service.
- Consultant to the American P&I Club on matters related to structural assessment of ships and risks
- Consultants to several Europeans and North American ship-owners, oil/gas concerns and P&I Clubs namely:

- *British Gas North America (CERES) – **LNGs (Korea)** – Assessment of Advance Analysis and compliance with the contracted Rules and Regulations*
 - *Sonatrach – Algerian Oil and Gas Company – **LPGs (Japan)** and VLCCs (China)*
 - *The American P&I Club_ assessment of designs and highlight to Underwriters risks for Insurance Cover*
- RINA (Royal Institution of Naval Architects) delegate at IMO; Member of the RINA IMO Committee
 - Performing all types of calculations including Global FEA (Finite Element Analysis), using the latest FE techniques and modelling and for local scantlings of a ship (in service and new buildings). The FE analysis includes analysis of both hull structures and machinery parts and piping structural systems (like lattice type work employed in Jack-ups and Mobile Column Stabilised Units); Prepare detail drawings for repairs of ships in service.
 - Assessment of new structural rules and regulations and provide comments for national and international organisations.
 - Provide interpretations of the Class Rules (IACS) and IMO regulations
 - Assessment and design of repairs for failed ship structures
 - Structural technical re-assessment of ships structures
 - Expert witness to arbitration and legal disputes on ship structural matters
 - Development & Co-Author of American Bureau of Shipping (ABS) Guidance Notes on the Inspection, Maintenance and Application of Marine Coating Systems – See ABS site and download Rules item 49 (2nd page under Acknowledgements);
 - Development training material for the training of trainers of ABS engineers and field surveyors;
 - Delivered several Seminars for Coatings for ABS Group (ABS Consultancy services);
 - Assessment of the IACS CSR (Common Structural Rules) Rule changes & H-CSR (Harmonised) on behalf of members of Technical Committees of IACS Class Societies,
Union of Greek Ship-Owners (UGS)
International Chamber of Shipping (ICS) and
INTERCARGO.

June 1974 – July 2005: Principal Engineer Specialist at ABS - Director of PDC Maritime SA (formerly Theta Maritime SA 2005-2007)

American Bureau of Shipping (ABS) in London UK - first as a Surveyor, then as Senior Surveyor, Senior Engineer, Senior Engineer Specialist, Principal Engineer and finally as Principal Engineer Specialist. Some of my work (between 1991 and 1998) was carried out in New York, USA.

My work involved the following:

- Plan Approval of structures of Bulk Carriers, Container Vessels, Oil and Chemical Tankers, **LNGs, (built in France = USA –China) LPG Carriers (built in Japan)**, Barges (most types), Offshore Supply vessels, River Boats, RO-ROs, (US Flag Vessels too) Aluminium Yachts, Accommodation vessels, , Passenger Vessels, Heavy Lift Vessels, for both new building and conversions.

- **Plan Approval and design assessment of the following types of Mobile Offshore Structures** for compliance with all ABS MODU Rules, UK Department of Energy Certification and IMO MODU, Rules for Single Point Mooring (SPMs), FPSOs, FSOs for Oil or **Gas (LNG or LPG)** :
 - **Self-Elevating (Jack-ups) Units for Civil Engineering works in the North Sea (sub-sea piling works) and Danish Sea for the construction of a bridge between Sweden and Denmark.**
 - **Self-Elevating (Jack-ups) Drilling Units.**
 - Surface Drilling (ship Shape), Oil Storing (FPSOs + FSOs) units.
 - Column Stabilised Drilling or Heavy Lifting (crane) Units.
 - Barge type Drilling units.
 - Fixed Platforms (for Producing and/or Storing Oil or Gas).
 - Most Types of Single Point Moorings (SPMs).
 - Heavy Lift Vessels for the transport of Concrete platforms in the North Sea Norwegian sector.

- **Interpretation of the DEn (now HSE) Guidance Notes for Offshore structures, for the UK Sector representing ABS in UK Department of Energy meetings for the Rule Interpretation.**

- Plan Approval of structures of Barges (most types), Offshore Supply vessels, River Boats, RO-ROs, (US Flag Vessels too) Aluminium Yachts, Bulk Carriers, Container Vessels, Oil and Chemical Tankers, Accommodation vessels, LNGs, LPG Carriers, Passenger Vessels, Heavy Lift Vessels, for both new building and conversions.

- Performing all types of structural analysis including FEA (Finite Element Analysis).

- Rule Development (for over 4 years) managed a group of high quality engineers and restate *ABS Rules (SH)* for Oil Carriers and Bulk Carriers currently in service).

- In IACS (International Association of Classification Societies) representing ABS at the IACS working party of strength (for over 3 years). Developed retroactive Rules for IMO (SOLAS Ch. XII) addressing Bulk Carriers safety.

- Developed training material for the purpose of *training ABS Engineers and Surveyors*, for the application of the Rules and International Regulations. Training ABS Engineers (for plan approval) and Surveyors.

- *Research on Marine Coatings* behaviour in ship structures.

- *Interpretation of Rules on ship structures* for ABS Europe Engineering Offices.

- *Examination of ships' damages* and analyses to substantiate conclusions.

ACADEMIC BACKGROUND

1973 HND (Higher National Diploma) in Naval Architecture – Southampton College of Technology
 1974 Post Diploma in Naval Architecture – Sunderland Polytechnic

TRAINING

1973 Trained in Plan Approval of various types of ship structures (tankers & bulk carriers) at DNV (Det Norske Veritas Classification Society – Oslo, Norway)
 1972 Trained in a shipyard in Rotterdam, Netherlands – shop floor

PROFESSIONAL MEMBERSHIPS

Member	Royal Institution of Naval Architects – 1976
CEng	Chartered Engineer – 1976
Member	European Engineer - FEANI – France – 1982

LANGUAGES

Greek: Fluent English: Fluent French: Understanding

OTHER ACTIVITIES

- Member of the Steering Group for the development of the Guide entitled “Dynamic of Fixed Marine Structures by Atkins Oil & Gas Engineering.(80s)
 - Currently represent the Hellenic Republic in IMO (specialist committees) on items concerning Bulk Carriers Structural Safety and Corrosion Protection (Coatings).
 - RINA (Royal Institution of Naval Architects) delegation in IMO Committees meetings & Experts Group.
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PAPERS PUBLISHED

- *Dynamic of Fixed Offshore Structures text book* – 1991 - Peter D. Contraros served as the ABS member of the steering group of experts that discussed each chapter of the book – The Book Sponsored by the UK Den, Certifying Authorities in the North Sea UK sectors and Oil Majors
- “*Domino Effect’ – Coating Breakdown – Corrosion – Structural Failure*” April 2002 – paper presented at Lloyds List Corrosion Conference in London UK.
- “*Diagnostics of Coating Breakdown – Testing – Assessment – Prevention (TAP)*” – November 2004 - Oslo Corrosion Conference.
- “*The Inspection Maintenance and Application of Marine Coating Systems*” (ABS Web Site under Rules & Guides No 49) *ABS Guide 2007* – (co-author).
- “*Effect of Double Bottom Height on the Structural Behaviour of Bulk Carriers*” – *Intern. Journal of Marine Eng. Vol. 153 Pt A4 – 2011 (RINA Trans)* RINA International Conference in the Athens on “Design & operation of Bulk Carriers” & International Journal of Marine Engineering [RINA Transactions] Vol. 153 Part A4 2011) (*Commissioned by INTERCARGO & Fafalios Shipping S.A.*) – [Re: Revision of IACS Common Structural Rules (CSR) for Bulk Carriers]
- *Coatings and Permanent Means of Access – The Anti-Corrosion Challenges - Intern. Journal of Marine Eng. Vol. 153 Pt A4 – 2011 (RINA Trans)* - also RINA International Conference in the Athens on “Design & operation of Oil Tankers”

- ***“Common Structural Rules & their impact on the design of Bulk Carriers” January 2011***
– – Rina presentation at LR Building in London

- ***Structural/Operational Risks of IACS Classed Container Carriers” Converted to “General Cargo” for carriage of Break Bulk Cargoes Including Iron Ore & Class Certification – October 2011*** - RINA presentation at LR Building in London – Sponsored by the American P&I Club.

- ***“Structural/Operational Risk of IACS Classed “Container Carriers” changed Class Notation to “General Cargo” that can carry High Density Break Bulk Cargoes Including Iron Ore/Steel Products & Class Certification” – presented at SNAME Athens Branch on 17 May 2012*** (Commissioned by the American P&I Club)

- ***“ In Service Container Carriers Converted to General Cargo Vessels Classed to Carry High Density Break Bulk Cargoes Structural and Operational Risks”*** – Commissioned by the American P&I Club 4th SNAME Symposium in “Ship Operation, Management & Economics” Athens 8-9 November 2012

- ***“IACS CSR – Harmonised [CSR-H] for Oil Tankers and Bulk Carriers – SOME OF THE ISSUES MAY REQUIRE IMPROVEMENT”*** Presentation MARTECMA – NAFTILIAKI – Athens November 2012

- ***Common structural Rules (CSR) for Bulk carriers and oil tankers Under the IMO’s Magnifying Glass*** – December 2018 Hellenic Inst. of Marine Technology (HIMT) Annual Meeting 2018

- ***Material Quality Effects on Structural Design of Rudder Horns for Bulk Carriers and Tankers*** by K. Tsevdou, P. Contraros & E. Boulougouris – May 2019 - Journal of Ships and Offshore Structures –