

REFERENCES

SHIP MANAGEMENT.....	2
SHIP AND OFFSHORE DESIGN.....	2
ENGINEERING.....	3
R&D PROJECTS.....	5

SHIP MANAGEMENT

- Management of the ships:
 - M/V Žigljen
 - M/V Adriatic Express
 - M/V Mirjana K

SHIP AND OFFSHORE DESIGN

- Development of new ISO classification rules for motor and sailing mono-hulls with the length over 24 meters, International Marine Certification Institute (IMCI), Belgium, 2017-2018
- Concept design and development support of a multi-purpose offshore platform, foreign client, 2014 – on-going
- Design of a scrubber washing water heater, Metalobrada, Croatia, 2016
- Concept design of a 40m passenger ship (GA and technical specification), Croatia, 2015
- Design of lifting pad eyes on a 40m support vessel, De-Naval Ltd., Croatia for More Maritime AS, Norway, 2015
- Optimal design of light weight modular sandwich panels, EU/FP7 project ADAM4EVE - Adaptive and smart materials and structures for more efficient vessels, 2013-2015
- Design of composite bow enclosure, EU FP7 project MOSAIC - Materials on-board: steel advancements and integrated composites, 2013-2015
- Installation engineering of the complete Exhaust Gas Cleaning System Saacke LMB EGS 300 on board AFRAMax tanker "Kornati", Tankerska plovodba, Croatia, 2012
- Concept development of a large asphalt carrier using CAFE software, 3. Maj Shipyard, Croatia, 2012
- Classification documentation for the 45 m tug/supply vessel, Pacific Light Shipping, UAE, 2012
- Design of a vessel that meets the 2020 CO2 target, EU/FP7 project ULYSSES – Ultra slow ships, 2012
- MorphHull - a wind farm service vessel, 2011
- Harvester of sorrow – a conceptual design of a modular ship for sea cleaning, 2011
- LNG Carrier – a conceptual design of 750 t dwt coastal LNG carrier, 2010-2011
- Design of an all-steel laser-welded sandwich panel deckhouse, IHC Merwede, The Netherlands, 2009
- Conceptual design of a luxurious motor yacht, private owner, 2007-2008
- Grounding of laser-welded sandwich panels, 2006
- Design and analysis of a steel sandwich flooring for a sports hall, The Esport Arena, Finland, 2004-2005
- Laser-welded steel sandwich staircase module for cruise ships, STX Turku, Finland, 2005
- Fire resistance of steel sandwich panels, Mizar/Ruuki, Finland, 2003-2004
- Structural design optimization of a fast ferry, MarStruct, 2005
- Optimal design of a stanchion, Lang Ship, Finland, 2004

ENGINEERING

- Vibration measurements on board of chemical tanker and analysis, Transport Desgagnes Inc, Canada, 2017
- Strength assessment of composite ship structure (GFRP) on a daily cruise vessel, iCat Ltd., Croatia, 2017
- Dynamic FE analyses of an arctic tanker and an iceberg collision for SDS Aura Ltd., Finland, 2016
- Strength, stability, seakeeping and anchoring analyses of a lightweight semi-submersible floating structure, Novaton AG, Switzerland, 2016
- Strength assessment of a composite roof structure (GFRP) on a daily cruise vessel, iCat Ltd., Croatia, 2016
- Sensor positioning and ship motion measurements and calculations for innovative Weather Routing system, IteI Ltd., Croatia, 2015
- FE analysis of ROV hangar aboard an offshore support vessel, De-Naval Ltd. Croatia / Marin Teknik, Norway, 2015
- FE analyses for the supporting structure of the following equipment: 100t crane, 400t crane, storage winch, traction winch, hydraulic power unit and pressure vessel unit, located aboard m/v, De-Naval Ltd. Croatia / Marin Teknik, Norway, 2015
- Lifting analysis of a 40m support vessel, De-Naval Ltd. Croatia for More Maritime AS, Norway, 2015
- FE analyses of multiple crane foundations and deck structure under container and winch loads, De-Naval Ltd. Croatia / More Maritime AS, Norway, 2015
- FE analyses of complex offshore structures, Navis Consult Ltd. (member of Rolls-Royce Marine AS), Croatia, 2015
- FE analysis of composite - steel joints, MOSAIC EU FP7 project (Materials on-board: steel advancements and integrated composites), 2013-2015
- FE analysis of mooring equipment of an AFRAMAX tanker (14500 dwt), Brodotrogir Shipyard, Croatia, 2014
- FE analysis of ship segment under winch load, De-Naval Ltd. for client More Maritime AS, 2014
- FE analysis of foundation of an observation class remotely operated underwater vehicle (OBS ROV), De-Naval Ltd. for Marin Teknik, 2014
- Structural analyses of light weight modular sandwich panels, static analysis of a rudder propeller, EU/FP7 project ADAM4EVE - Adaptive and smart materials and structures for more efficient vessels, 2013-2015
- FE lifting analysis of a 35 m LNG-powered tug boat, De-Naval Ltd. for Marine Design AS, 2013
- FE analysis of ship's deck and surrounding structure (different load case scenarios) and of a crane foundation (withstanding loads for different lifting positions), De-Naval Ltd. for More Maritime AS, 2013
- FEM full ship model of barge lifting capacity and detailed analysis of barge lifting eye, Wisby Tankers, Sweden, 2013
- Non-linear finite element simulations of composite to steel material bonding, structural optimization of composite patch, EU/FP7 project CO-PATCH - Composite patch repair for marine and civil eng. infrastructure applications, 2009-2013

- Structural analyses of ice crashworthiness, research of the interaction between ship structure and compressive ice by means of non-linear FE analysis, EU/FP7 project SAFEWIN – Safety of winter navigation in dynamic ice, 2009-2013
- FEM strength assessment of the foundations and supports of an LNG tank onboard an LNG-powered tug vessel, De-Naval Ltd., Croatia, 2012
- FE analysis of the hull structure of an open top river and sea-going barge, Navis Concept, Croatia, 2012
- Assessment of the response of a British navy ship structure, in case of emergency towing, British Cammell Laird Shiprepairers & Shipbuilders Ltd., United Kingdom, 2012
- Structural analysis for hull steel replacement, FEM check on modified steel structure and different load case scenarios of a platform, 6Sigma Naval Architects, South Africa, 2012
- Global and local hull structural analysis of a 1600t heavy lifting pipe laying ship, Viktor Lenac Shipyard, Croatia, 2012
- FEM analysis of the collision of a ship with an offshore wind turbine, 8.2, Germany, 2012
- Longitudinal strength analysis of a 110 m river tanker using FEM, Bomex shipyard, Serbia, 2012
- Stress analysis of a pipeline in a pump station of an asphalt carrier, 3. Maj shipyard, Croatia, 2012
- Retrofit engineering and installation assistance for the Exhaust Gas Cleaning System Saacke LMB EGS 300 on board AFRAMax tanker "Kornati", Tankerska plovidba, Croatia, 2012
- Development and refit of the exhaust system of the passenger cruise ship, Grand Circle Line Cruise, USA, 2012
- Structural analysis of new building's NB 716 deck with the mooring equipment installed on-board of an asphalt carrier, Shipyard 3.MAJ, Croatia, 2011
- Crashworthiness of an electric car– non-linear finite element simulations of car collision in order to improve the bumper design, Dok-ing Ltd., Croatia, 2011
- Fatigue assessment of laser stake-welded T-joints, 2010
- Stress analysis of yacht superstructure, C-Job and Partners BV, The Netherlands, 2010
- Measurement of vibration and noise on a river cruiser, GCCL, USA, 2010
- Vibration and noise response of ship structure, Deltamarin Ltd., Finland, 2010
- Strength analysis of a luxurious 62m long yacht, private owner, Australia, 2009
- Vibration assessment of a gen-set and mitigation of high-level vibrations, Losinjska Plovidba Ltd., Croatia, 2009
- Forced vibration and noise analysis of an asphalt carrier, Kraljevica Shipyard, Croatia, 2008-2009, a container-passenger ferry; Deltamarin Group Oy, Finland, 2008-2009
- Forced vibration analysis of a car-passenger ferry, Kraljevica Shipyard, Croatia, 2007
- Rolled steel sandwich panel roof analysis, Shipax, 2007
- Laser-welded Z-core steel sandwich panel roof analysis, Ruuki, 2007
- Steel reinforced concrete I-beam mould analysis, 2007
- Comparative study of corrugated sandwich panels, Mizar/Ruuki, 2005

R&D PROJECTS

- Composite Repairs for Ships: Service Demonstration, Certification and Market Entry - COMPA 2GO, HORIZON 2020 SME Inst. Phase 2, 2018-2020
- Ship life cycle software solutions - SHIPLYS, HORIZON 2020, 2016-2019
- Technology for repairing steel ship structures and pipes using composite patches – COMPA IMPULS, HAMAG-BICRO, 2014-2015
- Adaptive materials for advanced shipbuilding - ADAM4EVE, EU FP7, 2013-2015
- Materials on-board: steel advancements and integrated composites - MOSAIC, EU FP7, 2012-2015
- Safety of winter navigation in dynamic ice - SAFEWIN, EU FP7, 2010-2013
- Composite patch repair for Marine and Civil Engineering Infrastructure Applications - CO-PATCH, EU FP7, 2010-2013
- Ultra slow ships project - ULYSSES, EU FP7, 2009-2013
- Joint project with the aim to define and describe value of websites for multiple users in business-to-business relationships in the context of the shipping industry – INTERNSHIP, Hanken School of Economics, Helsinki, Finland and Faculty of Economics in Rijeka, Croatia, 2010-2013