



Gdansk University of Technology



Faculty of Ocean Engineering and Ship Technology

**Chair of Ship and Offshore Structure's Deck Equipment
and Systems**

Profile

Piotr Łubiński, M.Sc. Eng.
R&D Assistant



Areas of the Chair education and research activity:

- Marine life saving appliances and evacuation systems
- Cranes, davits, launch and recovery systems; cargo handling equipment
- Wave energy conversion devices
- Solar energy powered boats and ships
- Anchor and mooring systems for ships and offshore structures
- Controllable pitch propellers; tunnel, azimuth, pod thrusters
- Steering gears; active fin stabilizers
- Heave compensators for drilling platform systems
- Towing machineries and equipment
- Deck equipment and machineries for research, fishing, special purpose and offshore vessels
- Power hydraulics drive and control systems
- Bearings and seals of shafts
- Ramps, doors, hatch covers



Current and recent applied work carried out in the Chair :

The Chair performs research, development and innovative design works for industry e.g.:

Ustka Shipyard:

- design of new marine life saving appliances: free-fall lifeboat system

Fama Gniew (Ulstein Fama – Rolls Royce Group):

- new design of launching equipment: lifeboat davits, liferaft davits, universal davit, fast rescue boat davit, various winches, deck crane

Sea Fisheries Institute Gdynia:

- complete deck equipment for r/v “Baltica” e.g.: series of cable winches, board door, roll out davit

Polish Navy:

- sonar winches, umbilical cable winches for ROVs, cp propeller for submarine

Small Fishing vessels:

- complete deck equipment, propulsion system with controllable pitch propeller

Sezamor:

- design of lifeboat davits for tall-ship



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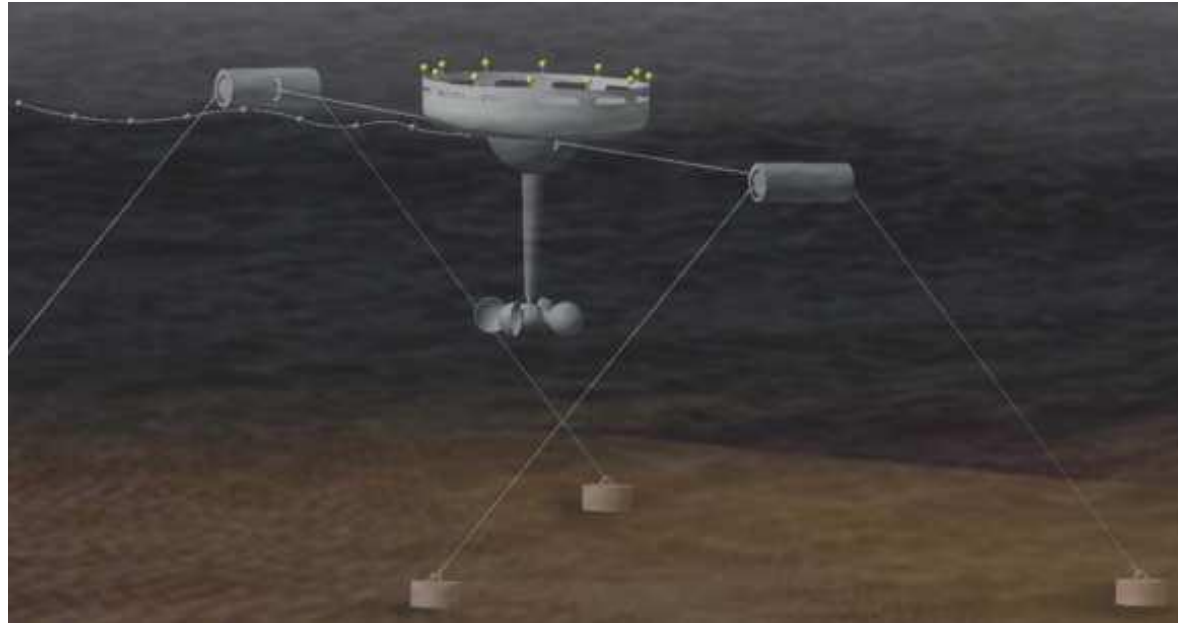


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Current and recent research projects carried out in the Chair :

- SAFECRAFTS (EU FP6) - safe abandoning of ships
- WAVE ENERGY CONVERSION DEVICE
- RESEARCH WORK ON LOW ENERGY “POD” THRUSTER
- DESIGN OF POWER PLANT AND EQUIPMENT OF NEW FISHING VESSEL FOR BALTIC SEA
- INCOWATRANS (EUREKA PROJECTS) - a new generation of environment friendly inland & coastal ships for polish east-west waterways
- ECODOCK (EUREKA PROJECTS) - environment friendly floating dock
- BALTECOLOGICAL SHIP (EUREKA PROJECTS) - environment friendly ships for Baltic Sea
- WATER LUBRICATED STERN TUBE SHAFT BEARINGS - sliding bearings with polymer bearing bush - cooperation with TENMAT and THORDON companies





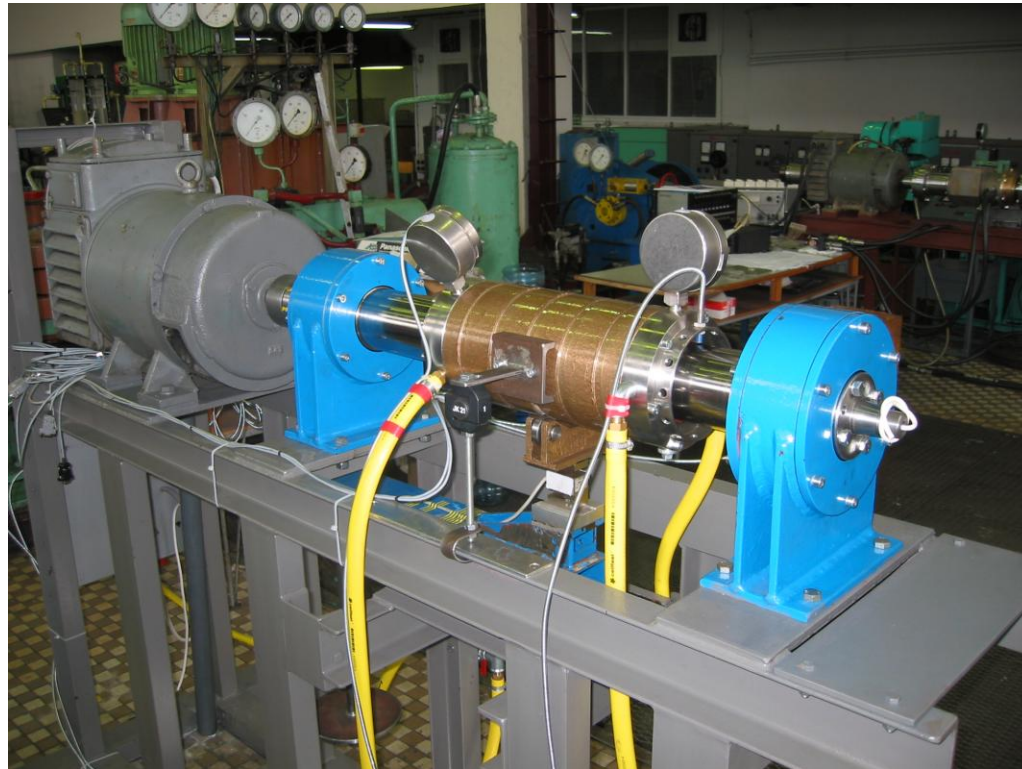
Machinery laboratory:

Research and educational stands of Chair's machinery laboratory:

- Piston rod steering gear for experiments under various load conditions
- Controllable pitch propeller stand
- Stand for experiments with water lubricated slide bearings with polymer bearing bush under static and dynamic load.
- Hydraulic Power Unit for experiments with hydraulic drive and control systems of the machineries.
- Stand for experiments with rope winches under static and dynamic load.
- Stand for experiments on low power "pod" thrusters



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Offer :

We offer cooperation concerning above mentioned research areas, especially in the following aspects:

- theoretical analysis
- mathematical modeling
- computer simulations
- laboratory experiments
- research, development and design

of the nowadays applied machineries, equipment, devices, systems as well as an innovative solutions, taking into account: safety, human element, environmental protection, economical impact, new materials and technologies.

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Thank you

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