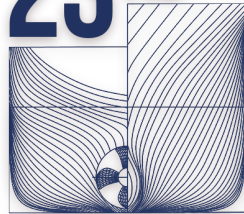


23RD**MAY 24-26TH, 2023, Sopot, Poland****HYDRONAV 2023**INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION**CONFERENCE PROGRAMME****Wednesday, 24 May 2023****9:00-9:30** Registration of participants, coffee and tea (*time to test the presentation of the 1st session*)**1st SESSION – Resistance and Propulsion**Chair: Paweł Dymarski**9:30-9:40** Welcome speech

Henryk Śniegocki

9:40-10:20 Invited Paper: DYNAMICS OF A SINKING SHIP

Jerzy Matusiak, Kristjan Tabri

10:20-10:45 BULK CARRIER WITH RIGID SAILS
– COMBINED EFFECTS OF REALISTIC WEATHER CONDITIONS

Arun Krishnan, Tomasz Hinz, Grzegorz Mazerski

10:45-11:10 MODERN REGRESSION TECHNIQUES IN HULL RESISTANCE PREDICTIONS

Sebastian Bielicki, Michał Kalbarczyk

11:10-11:35 INVESTIGATION OF MEWIS DUCT AS ENERGY SAVING DEVICE USING COMPUTATIONAL
FLUID DYNAMICS -AN OVERVIEW

Prashant Singh

11:35-12:00 COFFEE BREAK (*time to test the presentation of the 2nd session*)**2nd SESSION – Resistance and Propulsion 2**Chair: Marek Narewski**12:00-12:25** NUMERICAL OPTIMISATION OF POD PROPELLER POSITION AND REVOLUTION FOR A
CONTAINER SHIP WITH A HYBRID TWIN-CRP-POD PROPULSION SYSTEM

Hanna Pruszek, Maciej Reichel, Krzysztof Czerski, Marek Necel

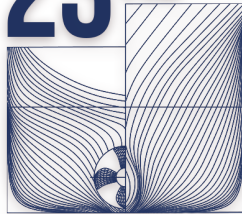
12:25-12:50 NUMERICAL ASPECTS OF LIFTING FOIL SYSTEMS DESIGN AND ANALYSIS

Przemysław Król

12:50-13:20 OPEN WATER MODEL TESTS OF BRASS
AND 3D-PRINTED COMPOSITE PROPELLER: FDM AND SLS

Piotr Pruszek, Maciej Reichel

13:20-14:20 LUNCH BREAK (*time to test the presentation of the 3rd session*)

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RESULTS OF THE BIAS EU PROJECT

Jarosław Tęgowski, Karolina Trzcińska

14:55-15:20 UNDERWATER NOISE ISSUES

Mateusz Weryk

15:20-15:45 UNDERWATER RADIATED NOISE REDUCTION IN LIGHT OF CLASS SOCIETIES
INITIATIVES

Marek Narewski

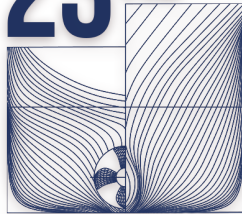
15:45-16:05 HYDROACOUSTICS TESTING LABORATORY
- RESEARCH CAPABILITIES AND COMPETENCES

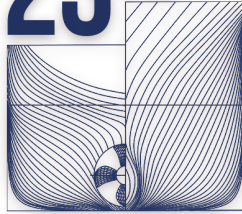
Aleksander Schmidt

16:05-16:30 OVERVIEW OF CALIBRATION METHODS FOR UNDERWATER ACOUSTIC
AND PRESSURE SENSORS FOR SHIP MEASUREMENT

Karol Listewnik

16:30 End of the first day of the Symposium

23RD**MAY 24-26TH, 2023, Sopot, Poland****HYDRONAV 2023**INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION**CONFERENCE PROGRAMME****Thursday, 25 May 2023****8:45-9:00** Registration of participants, coffee and tea (*time to test the presentation of the 1st session*)**1st SESSION – Ship seakeeping and maneuvering, Hydroelasticity****Chair: Jerzy Matusiak****9:00-9:20** *MODELLING THE HULL-THRUSTER INTERACTION IN MANOEUVRING SIMULATIONS*
Sebastian Bielicki**9:20-9:40** *INVESTIGATION OF THE TUG INDIRECT MODE ESCORT MANEUVERS WITH THE USE OF MODEL TESTS*
Radosław Kołodziej**9:40-10:00** *SIMPLIFIED METHOD TO ANALYSE THE WHIPPING-INDUCE VIBRATIONS IN CONTAINER SHIPS*
Emil Roch, Krzysztof Wołoszyk**10:00-10:20** *NUMERICAL MODELLING OF CONTAINER SHIP BEHAVIOR ON WAVES CONSIDERING WHIPPING AND SPRINGING PHENOMENA*
Monika Warmowska-Gadzińska, Krzysztof Wołoszyk**10:20-10:40** **COFFEE BREAK** (*time to test the presentation of the 2nd session*)

23RD**MAY 24-26TH, 2023, Sopot, Poland****HYDRONAV 2023**INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION**CONFERENCE PROGRAMME****Thursday, 25 May 2023****2nd SESSION – Offshore wind. Dynamics of the marine environment****Chair: Monika Warmowska-Gadzińska****10:40-11:00** *DETERMINATION OF THE VORTEX WAKES BEHIND OFFSHORE WIND TURBINES*

Leszek Kwapisz, Marek Narewski, Jan Szantyr

11:00-11:20 *MODELING OF DISPLACEMENTS OF AN OFFSHORE WIND PLATFORM IN THE ANSYS AQWA PROGRAM EXTENDED WITH THE INFLUENCE OF VISCOSITY*

Ewelina Ciba, Paweł Dymarski

11:20-11:40 *MODELLING OF THE LAKE WAVES FOR THE ENVIRONMENTAL DISTURBANCES
SIMULATION OF THE SCALE SHIP MODEL*

Anna Miller, Andrzej Rak

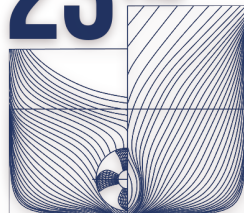
11:40-12:00 *A 3D ANALYTICAL MODEL FOR THE INTERACTION OF WATER WAVES WITH AN
OSCILLATING BREAKWATER*

Sebastian Sorek, Wojciech Sulisz

12:00-12:20 *NUMERICAL MODELLING OF FORCES IN THE TENDONS OF A TLP TYPE FLOATING
WIND TURBINE*

Paweł Dymarski, Ewelina Ciba

12:20-13:20 **LUNCH BREAK** (time to test the presentation of the 3rd session)

23RD**MAY 24-26TH, 2023, Sopot, Poland****HYDRONAV 2023**INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION**CONFERENCE PROGRAMME****Thursday, 25 May 2023****3rd SESSION – Energy efficiency. Operation of ships****Chair:** Jacek Nowicki**13:20-13:40****Special paper: TRIBUTE TO PROF. LECH KOBYLIŃSKI**

Jacek Nowicki

13:40-14:00*TIME-DOMAIN NUMERICAL EVALUATION OF SHIP RESISTANCE AND MOTION IN REGULAR WAVES BY USING THE CFD URANS METHOD*

Mohammad Sadeghi, Hamid Zeraatgar, Mohammad Hossein Ghaemi, Mojtaba Barjasteh

14:00-14:20*NEW 2023 IMO REQUIREMENTS ON VESSELS OPERATIONAL ENERGY EFFICIENCY - METHODS, PROCEDURES AND VERIFICATION OF IN SERVICE PERFORMANCE MEASUREMENTS FOR THE PURPOSE OF THE EEXI CALCULATION*

Krzysztof Jacek Kołwzan

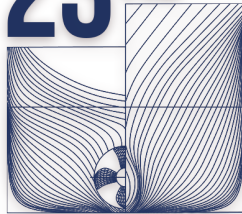
14:20-14:40*APPROACHES AND CHALLENGES TO DETERMINING POWER-SPEED CHARACTERISTICS AND REFERENCE SPEED FOR THE CALCULATION OF EEXI ENERGY EFFICIENCY INDICATORS*

Bartosz Dombrzalski, Janusz Narewski

14:40-15:00*SECURING CARGO IN CONTAINERS IN RELATION TO THE REQUIREMENTS OF THE CSC CONVENTION*

Jarosław Soliwoda

15:00-15:20**COFFEE BREAK** (*time to test the presentation of the 4th session*)

23RD**MAY 24-26TH, 2023, Sopot, Poland****HYDRONAV 2023**INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION**CONFERENCE PROGRAMME****Thursday, 25 May 2023****4th SESSION – Yachts, Sports boats, Windsurfing**Chair: Maciej Reichel**15:20-15:45***MULTI-FUEL TWIN-HULL YACHT WITH A HYDROGEN CELL*

Teresa Abramowicz-Gerigk, Zbigniew Burciu, Jacek Jachowski, Henryk Pepliński

15:45-16:10*VALIDATION OF THE CFD ANALYSIS FOR AN OLYMPIC CANOE WITH TAKING INTO ACCOUNT ACCURATE ANALYSIS OF THE AERODYNAMIC RESISTANCE*

Patryk Dobreńko, Marek Kraskowski, Tomasz Bugalski

16:10-16:35*TOWARDS DEFINING OF A CORRELATION BETWEEN EXPERT TRIAL IN OPERATIONAL CONDITIONS AND HYDRODYNAMIC CHARACTERISTICS**OBTAINED USING CFD SIMULATION FOR A WINDSURFING FOILING CLASS FRONT*

Zbigniew Macikowski, Artur Karczewski, Przemysław Krata

16:35**End of the second day of the Symposium**



MAY 24-26TH, 2023, Sopot, Poland

HYDRONAV 2023

INTERNATIONAL SYMPOSIUM ON HYDRODYNAMICS
IN SHIP DESIGN, SAFETY, MANOEUVRING AND OPERATION

CONFERENCE PROGRAMME

Friday, 26 May 2023

8:45-9:00 Registration of participants, coffee and tea

Workshop

9:00-11:00	THE SECOND GENERATION INTACT STABILITY CRITERIA - IMO INTERIM GUIDELINES
	Przemysław Krata, Zbigniew Szozda

11:00-12:00 LUNCH BREAK

Workshop

12:00-14:00	THE SECOND GENERATION INTACT STABILITY CRITERIA - IMO INTERIM GUIDELINES
	Przemysław Krata, Zbigniew Szozda

14:00 End of the third day of the Symposium