



PROGRAM

INTERNATIONAL MARITIME SCIENCE CONFERENCE 2021

VARNA, BULGARIA, 09-10.09.2021

Cherno more hotel

09.09.21 08.30 – 09.00 Registration (Cherno more hotel)

09.09.21 09.00 – 09.30 Conference opening (Varna Hall)

Fl. Admiral Boyan Mednikarov, prof. DSc – rector of NVNA

Official Guests addresses

Prof, PhD Blagovest Belev – chair of the Program Committee

CAPT (N) Nedko Dimitrov, assoc. prof, PhD – chair of the Organizational Committee

09.09.21 09.30 – 10.40 PLENARY SESSION

Varna Hall, Moderator: CAPT (N) Nedko Dimitrov, assoc. prof, PhD

Andrea Lodolo (SEABLY CEO) – New challenges and digital solutions to the maritime education and training

Sam Slater (V360 Group CEO) - Virtual and augmented reality - modern solutions in MET

09.09.21 10.40 – 11.00 Coffee networking

09.09.21 11.00 – 12.30 FIRST CONFERENCE PANEL

Section 1-1: Research in Support of Modern Maritime Education.

Odessos Hall, Moderator: Ognyan Kostadinov, PhD

1. STUDENT SURVEY TO IDENTIFY THE SATISFACTION OF STUDENTS IN MATHEMATICAL COURSES - Anita Gudelj, Jelena Liĝere, Inga Zaitseva-Pärnaste, Agata Załęska-Fornal
2. EVALUATION OF CRUISER TRAFFIC VARIABLES IN SEAPORTS OF THE REPUBLIC OF CROATIA - Maja Račić, Katarina Balić, Mira Pavlinović, Antonija Mišura
3. COMPARATIVE ANALYSIS OF THE CONTRACTS FOR MARITIME TRANSPORT SERVICES. CHAIN OF CHARTER PARTIES -Svetlana Dimitrakieva, Ognyan Kostadinov, Christiana Atanasova.
4. INFLUENCE OF OPTIMISM UPON THE ACCUMULATION OF STRESS, MENTAL STATE AND PERCEIVED RISKS FOR THE FUTURE OF STUDENTS, IN THE CONDITIONS OF COVID -19 PANDEMIC - Valeri Stoyanov
5. ADDRESSING MARITIME INDUSTRY FEEDBACK FOR CONTINUOUS IMPROVEMENT: A PROCESS MODEL - Emeliza T. Estimo, Geneveve M. Aguilar

Section 2-1: Education and Maritime Industry.

Varna Hall, Moderator: Valentina Grancharova, assoc. prof, PhD

1. NEW RESULTS FOR TEACHING SHIP HANDLING USING FAST TIME SIMULATION - Knud Benedict, Michèle Schaub, Michael Baldauf, Michael Gluch, Matthias Kirchhoff, Caspar Krüge
2. CONCEPT OF PRESENT PRACTICE IN CHOOSING OF OPTIMAL NUMBER OF TUGS - Rino Bošnjak, Zvonimir Lušić, Filip Bojić, Dario Medić
3. S-101 CHARTS, DATABASE TABLES FOR S-101 CHARTS, AUTONOMOUS VESSEL - Vladimir Brozović, Danko Kezić, Rino Bošnjak, Filip Bojić
4. INFLUENCE OF HYDRO-METEOROLOGICAL ELEMENTS ON THE SHIP MANOEUVRING IN THE CITY PORT OF SPLIT - Zvonimir Lušić, Nenad Leder, Danijel Pušić, Rino Bošnjak
5. CHALLENGES TO THE MULTIMODAL TRANSPORT NETWORKS BASED ON SUSTAINABLE GROWTH IN THE VOLUME OF CONTAINERIZED CARGOES - Valentina Grancharova

09.09.21 12.30 – 14.00 Lunch break

09.09.21 14.00 – 16.00 SECOND CONFERENCE PANEL

Section 1-2: Research in Support of Modern Maritime Education.

Odessos Hall, Moderator: Georgi Dimitrov, assoc. prof, PhD

1. THE LIGHTSHIP MASS CALCULATION MODEL OF A MERCHANT SHIP BY EMPIRICAL METHODS - Vedran Slapničar, Katarina Zadro, Viktor Ložar, Ivo Čatipović
2. ON EDUCATION AND TRAINING IN MARITIME COMMUNICATIONS AND THE GMDSS DURING THE COVID-19 - Chavdar Alexandrov, Grozdu Grozdev, Georgi Dimitrov, Avgustin Hristov
3. STUDY OF MALARIA CASES AMONG SEAFARERS IN CROATIA AND THE CAUSES OF INEFFECTIVE CHEMOPROPHYLAXIS AMONG THEM - Rosanda Mulić, Andrea Russo, Iris Jerončić Tomić
4. TRADITIONAL VS ONLINE EDUCATION IN THE MARITIME TRAINING SYSTEM UNDER COVID-19 PANDEMIC: COMPARATIVE ANALYSIS - Alona Leshchenko, Olena Bezlutska
5. AIR POLLUTANT EMISSION MEASUREMENT - Nikola Račić, Branko Lalić, Ivan Komar, Frane Vidović, Ladislav Stazić
6. THE CHALLENGES OF TEACHING ENGLISH TO THE MARINE ELECTRICAL ENGINEERING STUDENTS - Milena Dževedanović-Pejović, Tatijana Dlabač

Section 2-2: Education and Maritime Industry.

Varna Hall, Moderator: Piotr Szymak (TBC)

1. MEETING SUSTAINABLE DEVELOPMENT GOALS - EXPERIENCE FROM THE LARGEST SHIPPING COMPANIES - Katarina Balić, Helena Ukić Boljat, Gorana Jelić Mrčelić, Merica Slišković
2. PETRI NET MODEL OF SUPPLY VESSEL CONSUMPTION AS FUNCTION OF THE NATURE OF THE BUSINESS AND THE STATE OF THE WIND AND SEA - Toni Meštrović, Danko Kezić, Ivica Pavić, Srđan Vukša
3. MEASUREMENT OF THE DYNAMICS OF THE SHEAVE BLOCK OF SHIPYARD CRANE WITH 1000 T LIFTING CAPACITY FOR VERIFICATION OF THE LABORATORY STAND - Piotr Szymak, Paweł Piskur, Jacek A. Goszczyński, Tomislav Batur
4. SWARM OF AUTONOMOUS UNDERWATER VEHICLES – PRELIMINARY RESULTS OF THE CONTROL SYSTEM - Tomasz Praczyk, Tadeusz Bodnar
5. ASSESSMENT OF LNG BUNKERING ACCIDENTS - Peter Vidmar, Andrej Androjna
6. IMPACT OF ENGINE ROOM SIMULATOR AS A TOOL FOR TRAINING AND ASSESSING BSMARE STUDENTS' PERFORMANCE IN ENGINE WATCHKEEPING - Charles N. Mangga, Paul B. Tibo-oc, Ronnie C. Montaño

09.09.21 19.00 – 22.00 Official dinner – BARITE Complex, Chernevo village

10.09.21 09.00 – 10.30 THIRD CONFERENCE PANEL

Section 3-1: Marine Engineering Education.

Odessos Hall, Moderator: Delyan Hristov, PhD

1. EGR OPERATION INFLUENCE ON THE MARINE ENGINE EFFICIENCY - Delyan Hristov, Ivan Ivanov, Dimitar Popov
2. THE RELIABILITY OF WATERTIGHT LONGITUDINAL GIRDERS OF FUEL TANKS ON AGING BULK CARRIERS - Špiro Ivošević, Nataša Kovač
3. THE MEASUREMENT OF EXHAUST GAS EMISSIONS BY TESTO 350 MARITIME – EXHAUST GAS ANALYZER - Bruna Bacalja, Maja Krčum, Tomislav Peša, Marko Zubčić
4. IMPLEMENTATION OF A SYSTEMATIC MATERIALS SELECTION METHOD IN THE PRELIMINARY DESIGN OF PROPELLER SHAFTS - Liane Roldo, Nenad Vulić
5. PROPELLER LOAD MODELLING IN THE CALCULATIONS OF MARINE SHAFTING TORSIONAL VIBRATIONS - Nenad Vulić, Karlo Bratić, Branko Lalić, Ladislav Stazić
6. MODELING OF THE DEPENDENCE OF CO₂ CONTAINED IN THE EXHAUST GASES ON THE AMOUNT OF HYDROGEN GAS SUPPLIED TO THE ENGINE - Hristo Hristov, Ivailo Bakalov, Bogdan Shopov, Dobromir Yovkov

Section 4.1: Education and Maritime Transport and Information Systems.

Varna Hall, Moderator: Miro Petković

1. SOME PROBLEMS RELATED TO THE EXPLOITATION OF AUTOMATED CONTAINER TERMINALS - Yana Gancheva
2. GREEN PORTS – ENVIRONMENTAL CHALLENGES AND ECONOMIC DEMANDS - Dimitar Dimitrakiev, Georgi Gilev
3. MULTILEVEL DEMAND FOR SEA TRANSPORTATION. CORRELATION BETWEEN BALTIC DRY INDEX (BDI) AND COASTER SHIPPING PRICES FOR SEA ROUTES BETWEEN BALTIC SEAPORTS AND MEDITERRANEAN SEAPORTS - Svetlana Dimitrakieva, Ognyan Kostadinov, Christiana Atanasova
4. REVIEW OF THE CURRENT INCREASE OF NOISE UNIT COST VALUES IN TRANSPORT - Luka Vukić, Ivan Peronja, Mihaela Bukljaš, Alen Jugović
5. TARGET DETECTION FOR VISUAL COLLISION AVOIDANCE SYSTEM- Miro Petković, Danko Kezić, Igor Vujović, Ivan Pavić
6. OPTIMISING THE REFERENCE POINT WITHIN A JOURNAL BEARING WHEN USING LASER ALIGNMENT - Ty Aaron Smith, Guixin Fan, Natalia Nikolova, Kiril Tenekedjiev

10.09.21 10.30 – 11.00 Coffee networking

10.09.21 11.00 – 12.30 FOURTH CONFERENCE PANEL

Section 3-2: Marine Engineering Education.

Odessos Hall, Moderator: Ivailo Bakalov, assoc. prof, PhD

1. CONTRIBUTION TO THE REDUCTION OF THE SHIP'S SWITCHBOARD BY APPLYING SENSOR TECHNOLOGY - Nediljko Kaštelan, Marko Zubčić, Maja Krčum, Miro Petković
2. THE STAND FOR FIN DRIVES ENERGY TESTING - Andrzej Grządziela, Marcin Kluczyk, Tomislav Batur
3. INTRODUCTION OF 3D PRINTING INTO MARINE ELECTRICAL ENGINEERING EDUCATION – A CASE STUDY - Ivica Kuzmanić, Igor Vujović, Zlatan Kulenović, Miro Petković
4. MODELING OF THE DEPENDENCE OF THE PRODUCED AMOUNT OF HYDROGEN GAS (Y) ON THE AMPERAGE OF CELL (X) OF A MARINE DIESEL ENGINE SKL 3NVD24 - Hristo Hristov, Ivailo Bakalov, Bogdan Shopov, Dobromir Yovkov
5. SHIPYARD CRANE MODELING METHODS - Pawel Piskur, Piotr Szymak, Bartosz Larzewski
6. TECHNICAL DIAGNOSTICS OF MARINE EQUIPMENT WITH PSEUDO-DISCRETE FEATURES - Guixin Fan, Natalia Nikolova, Ty Smith, Kiril Tenekedjiev

Section 4.2: Education and Maritime Transport and Information Systems.

Varna Hall, Moderator: Siyana Lutzkanova, assoc. prof, PhD

1. APPROACH TO SHIP'S IT AND OT SYSTEMS CYBERSECURITY IMPROVEMENT - Stoyno Stoynov, Borislav Nikolov
2. THE REGIONALIZATION OF EUROPEAN SECURITY AND DEFENSE POLICIES IN THE MARITIME DOMAIN: THE BLACK SEA CASE - Siyana Lutzkanova
3. POTENTIAL BENEFITS OF ELECTRICALLY DRIVEN FERRY, CASE STUDY - Tina Perić, Ladislav Stazić, Karlo Bratić
4. APPLICABILITY OF THE OODA LOOP THEORY FOR ANALYSIS OF HUMAN ERROR PROCESSES IN THE MARITIME SAFETY – Boyan Mednikarov, Siyana Lutzkanova
5. SITUATIONAL AWARENESS – KEY SAFETY FACTOR FOR THE OFFICER OF THE WATCH - Hrvoje Jaram, Pero Vidan, Srđan Vukša, Ivan Pavić
6. MARITIME SECURITY IN COASTWISE DOMESTIC SHIPPING AS PERCEIVED BY CADETS - Albert O. Grapa, Edgar T. Lemoncito, Jr.

10.09.21 12.30 Conference closing

10.09.21 14.00 – 18.00 Technical tour (optional)