

The 1st INTERNATIONAL CONFERENCE ON MARITIME EDUCATION AND DEVELOPMENT (ICMED)

23-24 November 2020

PROGRAMME

Hosted online by:



With the support of:



INTERNATIONAL SCIENTIFIC COMMITTEE

Prof. Anatoli Alop (Estonia)
Prof. Zoran Z. Avramovic (Serbia)
Prof. Sanja Bauk (South Africa)
Prof. Knud Benedict (Germany)
Capt. Mladen Brkovic (South Africa)
Capt. Quentin N. Cox (United Kingdom)
Prof. Innocent E. A. Davidson (South Africa)
Dr. Oswald Franks (South Africa)
Prof. Stojce D. Ilcev (South Africa)
Prof. Trevor Jones (South Africa)
Prof. Young Sub Kwon (South Korea)
Dr. Xavier Fco. Martinez (Spain)
Capt. Mike Melly (South Africa)
Dr. Kolobe Monwa (South Africa)
Prof. Sibusiso Moyo (South Africa)
Prof. Oludayo Olugbara (South Africa)
Prof. Ahvenjarvi Sauli (Finland)
Prof. Suren Singh (South Africa)
Prof. Elen Twrdy (Slovenia)
Prof. Adam Weintrit (Poland)

ORGANIZATIONAL COMMITTEE

John Abercrombie

Sanja Bauk

Yashoda Balkumar

Mthokozisi Buthelezi

Lindani Ntshangase

Litha Dalindyabo

Darren Fraser

Valentine Hlambisa

Ntombezinhle Kweyama

Balungile Ntshangase

Zenzile Makelo

Nkosinathi Michael Manqele

Margaret Balungile Masuku

Nhlanhla Rodgers Mtshali

Trywell Thabani Mtshali

Arshna Ramouthar

Aluwani Elijah Ramulifho

Nomalanga Sokhela

Asanda Zangwa

Bheka Zulu

Vincent Zulu

TIME SCHEDULE

Monday, 23rd of November 2020

10:00 h Opening Address (Prof Sibusiso Moyo - tentative)

10:15 – 11:15	
Session 1: Virtual smartness in maritime	
Chairperson: Mr Nkosinathi Michael Manqele	
Benedict K., Schaub M., Tuschling G., Baldauf M., Gluch M. / Hochschule Wismar (Germany)	"Innovative SAMMON Teaching Method for Shiphhandling – Element of the Project EURO ZA between South Africa and Europe"
Schaub M., Benedict K., Kirchhoff M. / Hochschule Wismar (Germany)	"Artificial Intelligence as a Practical Approach to Represent Complex Dynamic Relationships in Maritime Navigation"
Martínez de Oses F.X., Ventura J. E. / Department of Nautical Science and Engineering, Barcelona School of Nautical Studies, Technical University of Catalonia (Spain)	"Statistical Analysis of the Weather Conditions of the Main SSS Routes in the Western Mediterranean for its Presentation and Use as a Participatory Site Web to Support Learning Processes"
Afonin I., Iskiv V., Mikhayluck Y., Schekaturin A., Skorik I., Redkina E. / Sevastopol State University, Sevastopol (Russia)	"Modelling of the Navigation Situation Monitoring and Ship Control System"

11:15 – 11:30 Break

11:30 – 12:30	
Session 2: Virtual smartness in maritime	
Chairperson: Mr Lance Pullan	
Janssen T.J., Baldauf M., Muller-Plath G., Kitada M. / Hochschule Wismar (Germany) World Maritime University, Malmo (Sweden)	"The Future of Shipping – A Shore-Based Experience?"
Skorik I., Durmanov M., Yankovskiy S., Gimpilevich Y., Mikhaylyuk Y., Nacharov D., Shirokov I. / Sevastopol State University, Sevastopol (Russia)	"UAV for Ecological Monitoring of Water Surface"
Bauk S., Kapidani N., Boisgard J-P., Luksic Z. / Durban University of Technology (SA) / Administration for Maritime Safety and port Management, Bar (Montenegro)	"Key Features of the Autonomous Underwater Vehicles for Marine Surveillance Missions"
Nikishin V., Durmanov M., Skorik I. / Sevastopol State University, Sevastopol (Russia)	"Low-Cost Unmanned Surface Vehicle for Autonomous Bathymetric Surveillance"

Ilcev M., Olugbara O., Ilcev S.D. / Durban University of Technology (SA)	"Introduction to the Global Ship Tracking System via Mobile Satellite Constellations"
---	---

12:30 – 13:30 Break

13:30 – 14:30 Session 3: Legal issues & MET challenges Chairperson: Mr Langa Dlamini	
Surian I. / University of KwaZulu-Natal, Durban (SA)	"A Legal Analysis of the Collision and Strict Liability Framework for the Shipowner of Unmanned and Autonomous Vessels (South Africa)"
Grbic L., Baric M., Ivanisevic D., Gundic A. / University of Zadar, Maritime Department, Zadar (Croatia)	"Overtaking Vessels – COLREGs vs Practice"
Alop A. / Estonian Maritime Academy of Tallinn University of Technology, Tallinn (Estonia)	"Smart Shipping Needs Smart Maritime Education and Training"
Masuku M.B. / Durban University of Technology (SA)	"Enhancing Maritime Education through Online Distance Learning in Developing Environments: Case Study of South Africa"
Abercrombie J. / Durban University of Technology (SA)	"Seafarer Training in the Age of Autonomy"

14:30 – 14:45 Break

14:45 – 15:45 Session 4: MET/Educational challenges Chairperson: Ms Zenzile Gwamanda	
Phewa N.C. / Durban (SA)	"Maritime Education and Training (MET) Curriculum Challenges in the 21 st Century"
Shapo V. / National University Odessa Maritime Academy, Odessa (Ukraine)	"European Tempus TATU Project as the Basis for the IT/OT Maritime Engineers Education and Retraining"
Travar M., Dugonjic I., Avramovic Z.Z., Bajic G., Ristic S. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	"Digital Transformation of the Education Sector in the Western Balkan"
Vasiljevic D., Vasiljevic J., Ribaric B. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	"Artificial Neural Networks in Creating Intelligent Distance Learning Systems"

15:45 – 16:00 Break

16:00 – 17:00 Session 5: MET/Educational challenges Chairperson: Prof Sanja Bauk	
Vasiljevic J., Vasiljevic D., Ribaric B. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	"Ambient Intelligence in the Function of E-Learning Improvement"

Bauk S., Gasparini Fernandes E. / Durban University of Technology (SA) / Fatec, Rio Preto (Brazil)	"Reflections on the COIL Project Concerning Nuclear Power Generation, Sea Transportation of Radioactive Materials and Renewables' Perspectives"
Ribaric B, Avramovic Z.Z. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	"Personalization of Teaching in E-learning Systems"
Lazic S., Talic T., Marinkovic D. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	"The Importance of Information Technologies in Knowledge Management"

TIME SCHEDULE

Tuesday, 24th of November 2020

10:15 – 11:15 Session 6: STCW & Voice of the seafarers Chairperson: Mr Asanda Zwanga	
Pijaca M., Gundic A. / Maritime Department University of Zadar, Zadar (Croatia)	"Qualifications of MET Instructors – Case Study Republic of Croatia"
Tominac Coslovich S. / University of Rijeka, Faculty of Maritime Studies, Rijeka (Croatia)	"A Survey of Maritime English Textbook Activities for Marine Engineers"
Cox Q.N. / Master Mariner MNI MEI MA (ODE) Teekay Shipping Glasgow (UK)	"What Seafarers Say"

11:15 – 11:30 Break

11:30 – 12:30 Session 7: Maritime Business Chairperson: Dr Sakhile Ngcobo	
Zulu B.C. / MBA, MCOM (Maritime) Durban University of Technology (SA)	"An Economic Development Policy Implementation Approach to Creation of Sustainable Maritime SMEs in the KwaZulu-Natal Province"
Beskovnik B., Twrdy E. / Faculty of Maritime Studies and Transport, University of Ljubljana, Portorož (Slovenia)	"Comparing Carbon Footprint of Maritime Transport Routes on North Adriatic - South Africa Trade"
Kapidani N., Belojevic A., Hackaj A., Otasevic D., Metaj E., Kardovic E. / Administration for Maritime Safety and port Management, Bar; Ministry of Transport and Maritime Affairs, Podgorica (Montenegro) / Cooperation & Development Institute, Tirana; Ministry of Infrastructure and Energy, Tirana (Albania)	"South-Adriatic Connectivity Governance as One of the SAGOV Project Concerns"

12:30 – 13:30 Break

13:30 – 14:30 Session 8: Safety & security in digital realm Chairperson: Prof Sanja Bauk	
Sikanjic N., Avramovic Z.Z., Marinkovic D. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“Cyber Security IoT Architecture - One Proposed Solution for the Security Risks and Threats”
Dugonjic I., Travar M., Avramovic Z.Z., Bajic G. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina) Regulatory Commission for Energy of RS	“Enhancing Scientific Research Opportunities and E-Learning by Integrating Large Medical ISs”
Sikanjic N., Avramovic Z.Z., Smailovic N.I. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“E-Learning When Pandemic Endanger Human Popula-tion: Case Studies of Bosnia & Herzegovina and Austria”
Lazic S., Talic T., Marinkovic D. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“E-Learning in Secondary Schools in Republic of Srpska and Improvement Suggestions in Covid-19 Setting”

14:30 – 14:45 Break

14:45 – 15:45 Session 9: Safety & security in digital realm Chairperson: Mr Lindani Handsome Ntshangase	
Grujic I., Domazet V., Avramovic Z.Z. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“The Possibility of Using Distance Learning during the Emergency”
Tomic S., Drljaca D., Avramovic Z.Z. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“E-Education during COVID-19 Pandemic - APEIRON University Practical Experiences”
Mtschali N.R. / Durban University of Trchnology (SA)	“MET in Corona Virus (Covid-19) Setting: A Curse or a Blessing in Disguise?”

15:45 – 16:00 Break

16:00 – 17:15 Session 10: Miscellaneous Chairperson: Mr John Abercrombie	
Paukovic B., Avramovic Z.Z. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“Usage of Information Technologies in the Digitalization Process of the Modern Architectural Office”
Talic T., Avramovic Z.Z. / Pan-European University APEIRON, Banja Luka (Bosnia and Herzegovina)	“Control Towers in Supply Chain Management - Standardization and Documentation Preparation”
Mokgobu M.L., Mason R.B. / Durban University of Technology (SA)	“Space Technology and the Management of Water Infra-structure in South Africa”

Madonsela B., Davidson I.E., Mulangu C. / Durban University of Technology (SA)	"The analysis of Global Navigation Satellite Systems (GNSS) and the Numerical Estimation of Multipath Propagation"
Dakora J.D., Davidson I.E., Sharma G. / Durban University of Technology (SA)	"Conceptual Design and Analysis of Modern Space Solar Power Satellite and Rectenna Systems"

17:30 h Closing remarks (Prof Suren Singh - tentative)

End of Programme

Thank you for your participation!