

**“MIRCEA CEL BATRAN” NAVAL ACADEMY**

**SEA - CONF 2019**  
**5<sup>th</sup> INTERNATIONAL CONFERENCE**



**May 17<sup>th</sup> – 18<sup>th</sup>, 2019**  
**Constanta**

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# **PROGRAMME**

## **17th of May**

- 09.00-10.00 - Reception and Registration
- 10.00-12.00 - Opening Ceremony/ Plenary Session
- 12.00-14.00 - Tour of Naval Academy / Exhibition "SAILING TO THE FUTURE"
- 14.00-15.00 - Lunch
- 15.00-18.00 - Section Works
- 18.30-21.30 - Cocktail

## **18th of May**

- 09.15 – Arrival to Naval Academy
- 09.30 – Departure to Seamanship training base Palazu Mare (STB)
- 10.00-14.00 - Visit in STB
- 14.00-20.00 - Departure of participants

## INVITED SPEAKER

MIHAELA PICU

"Dunărea de Jos" University of Galați

[mihaelapicu@yahoo.com](mailto:mihaelapicu@yahoo.com)

**Prof. PhD: 2004 - present**

**Research: Noise and Vibrations on human behaviour**

**I graduated the Faculty of Physics, București University, 1984**

**PhD. Thesis, "Dunărea de Jos" University of Galați, 1996**

**I graduated the Faculty of Psychology. București University, 2008**

**Research areas A) Noise pollution** Acoustic maps carried out with Oper@ and CadnaA, Noise monitoring in urban and harbour environments, Acoustic rating for rooms and buildings, Civil and industrial noise reduction (enclosures and buildings insulation), Motor vehicle noise test, Workplace and housing noise test, Acoustic dosimetry, Sound evaluation the request of different companies, of the Territorial Labour Inspectorate, The National Environmental Guard or at the request of the citizens who want to know the degree of noise pollution to which they are subjected, Prediction of noise pollution in different areas, Impact assessment of noise pollution on the environment.

**B) Human vibration** Identification of the types of vibrations transmitted to humans and conformity of working conditions with the active standards, Measurement of hand-arm and whole-body vibration, Measurement of occupational exposure in industry through measurements inside the production halls, Detect the proper operating procedure for equipments and their interference with the noise in occupational environment, Develop viable proceedings to correct the primary sources of noise and vibration in order to enhance the environmental quality and health in terms of vibro-acoustic pollution.

**C) Recognition of professional prestige:** Silver Medal for Patent, National Salon of Inventions "Invented", Bilateral projects with prestigious universities, Co-director from Romania, Member of the international research team, Visiting professor, Member of the editorial board of journals Covered Thomson Reuters, Scientific reviewer for Thomson ISI Journals, Projects Manager, Membership in professional and scientific organizations, Chairman and co-chairman of the committee for international conferences, Coordinator of doctoral thesis, etc.

**Plenary paper: An analysis of whole-body vibration and hand-arm vibration exposure on the Danube ship crew:** This presentation focuses on WBV and HAV exposure on the crew members of river ships. All parameters (acceleration, frequency, exposure duration, etc) negatively influence the performance of the sailing staff. In order to study how the sum of these physical parameters, affect people's work, a full analysis was made on 11 subjects, on 2 river ships, navigating the Romanian Danube area in January 2019. The vibrations transmitted to the subjects were measured with Maestro 01dB. Also, the meteorological parameters were measured with the Kestrel 5000 Portable Weather Station. All parameters were measured on the main deck. Specific questionnaires were used to detect the negative influence of the transmitted vibrations. Subjects are aged between 42 and 61 years old, most of them are smokers and some of them have health problems. According to ISO 20283-5:2016, ISO 8041:2005, ISO 6954:2000, ISO 2631:2018 and Guide for crew habitability on ships: 2016, there are the following stipulated values for work spaces: maximum RMS level must be 0.214m/s<sup>2</sup> (for habitability criteria HAB), 0.178m/s<sup>2</sup> (for HAB +) and 0.143m/s<sup>2</sup> (for HAB ++). Mean values measured for the whole body vibration were 1.2÷1.4m/s<sup>2</sup>. The average values of the weather parameters, during the entire route, were normal for this period: temperature - 11÷4oC, atmospheric pressure 970÷1015mbar, humidity 75÷80%, wind speed 10÷30km/h; visibility 1 km, but the extremely dense fog persisted 86.66% of the time. The questionnaire responses showed the presence of musculoskeletal problems in a vibratory environment. Working on a ship is extremely difficult, especially in unfavorable weather conditions. Low temperatures amplify the negative effects of vibrations. It has been found that the values provided by all ISO are far exceeded. Moreover, due to the fact that most ships are old, their operation generates vibrations harmful to physical health. For this reason, a renewal of the fleet is necessary.

# PLENARY PAPERS

Nr. crt.	Paper title	Author	University	E-mail
1.	An analysis of whole-body vibration and hand-arm vibration exposure on the Danube ship crew	Mihaela PICU	“Dunarea de Jos” University, Galati	mihaelapicu@yahoo.com
2.	Static and thermal behavior of ship structure sandwich panels	Ionel CHIRICA	“Dunarea de Jos” University, Galati	ionel.chirica@ugal.ro
3.	MENTORESS project – Maritime education network to Orient and retain women for efficient seagoing services	Taner ALBAYRAK	“Piri Reis” University	talbayrak@pirireis.edu.tr
4.	The environmental impact of an accidental oil spill in the Black Sea southwestern coastal area	Andrei POCORA	“Mircea cel Batran” Naval Academy	andrei.pocora@anmb.ro
5.	New generation leadership for maritime women	Pinar OZDEMIR	“Piri Reis” University	pozdemir@pirireis.edu.tr
6.	Non-stationary heat transfer through ventilated air ducts whose walls are kept at constant temperature to determine the temperature distribution	Alexandru GRUIA	University of Craiova	madalina.xenia.calbureanu@gmail.com

## SCIENTIFIC COMMITTEE

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#### **“MENTORESS – Workshop on Integration of Women in Maritime Profession”**

Chairman: Taner ALBAYRAK

Members: Alecu TOMA

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DIVERSITY MANAGEMENT IN MARITIME INDUSTRY	PINAR OZDEMIR
OBSTACLES FOR WOMEN ON MARITIME JOB MARKET	SERBAN SERGIU
GENDER EQUITY ONBOARD MARITIME VESSELS	ANDRZEJ GRZADZIELA
LEADERSHIP AND WOMEN IN SEAFARING	TATYANA MADZHAROVA

