

SCHOOL OF OCEAN SCIENCE AND ENGINEERING



Faculty Spotlight on Dr. Inga Zaitseva-Parnaste

Visiting Fulbright Scholar

My working experience includes periods in academy and industry. I had worked as a hydrographic surveyor at Boskalis BV, a world-leading dredging company, and was involved in different projects (such as creation of artificial islands for contaminated silt storage in the Netherlands, construction of a flood prevention facility complex in the Saint Petersburg (Russia) and the development of the Ras Laffan Port Expansion in Qatar). During my Ph.D. study, I served as a teaching assistant and guest lecturer for hydrography and cartography introductory courses. My Ph.D. project in civil and environmental engineering

“Wave climate and its decadal changes in the Baltic Sea derived from visual observations” continued my diploma and Master’s study research on identification of wave variations in Estonian coastal waters derived from historical observations. I participated in different national and regional projects dedicated to Baltic Sea research including a project on the reaction of the eastern Baltic Sea coasts to changing wave conditions and spatial and temporal variability of the Baltic Sea wave fields under changing climatic conditions. I travelled internationally as an

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CURRENT PROJECTS AND FUNDING AGENCIES

Applied research for creating a cost-effective interchangeable 3D spatial data infrastructure with survey-grade accuracy

(1.04.2019–31.03.2021)

Project type: R&D project

Funding: 1 916 000,00 EUR, Archimedes Foundation

Implementation of ICT-based technical solutions for the speciality-specific courses of the Waterway Safety Management study program

(1.04.2020–31.07.2021)

Project Manager: Inga Zaitseva-Parnaste,

Project type: E&D project

Funding: 80 000,00 EUR, supported by European Union Structural Funds

Innovative Approach in Mathematical Education for Maritime Students

Project type: E&D project

Funding: 41 134,00 EUR, Operational Program adopted by the European Commission

CURRENT GRADUATE STUDENTS

Maarius Utso, Master’s Degree, 2021, (sup) Inga Zaitseva-Pärnaste

“Channel maintenance planning in Estonia based on the analysis of bathymetric changes and vessel traffic density”

Loore Magus, Master’s Degree, 2020, (sup) Inga Zaitseva-Pärnaste; Olavi Heinlo

“The implementation of the International Hydrographic Organization S-100 data standard in Estonia”

Kadi Kasepõld, Master’s Degree, 2019, (sup)

Inga Zaitseva-Pärnaste; Hannes Tõnisson

“Analysis on interplay between the developments of the maritime sector and changes in environmental indicators”

The School of Ocean Science and Engineering is proud to salute you, Dr. Zaitseva-Parnaste, for all of your work and dedication to your science.

awardee of a Marie Curie fellowship to develop my skills in statistical analysis of visually observed wave properties in coastal areas, spending time at Sheffield University (School of Mathematics and Statistics) in the UK.

Since completing my Ph.D. in 2013 I have been a lecturer/senior lecturer/associate professor (Hydrography) and a coordinator of the study program (Waterway Safety Management) at Tallinn University of Technology with a heavy lecturing load and managerial responsibilities.

I have developed and delivered the following courses: Hydrographic Survey, Nautical Cartography, Practical Training in Hydrography, Practical Training in Nautical Cartography. As a coordinator of the curriculum on Waterway Safety Management (Hydrography), I am responsible for developing, coordination and execution of

the study program in hydrography at the undergraduate level, in accordance with International Hydrographic Organization standards.

I am at USM as a Visiting Fulbright Scholar. My research here is focused on the developing the methodology for improved seabed mapping in coastal areas. I also give lectures on Electronic Charting and Navigation for the undergraduate study program.

I am thrilled to join USM SOSE and to collaborate with the professionals in the field of hydrography, gain insights into the innovative methodologies in ocean mapping and navigation technologies. As a coordinator of the hydrographic study program, I appreciate the opportunity to transfer practices of developing study programs that are recognized by International Hydrographic Organizations to Estonia.