

Support for in-person attendance for MINKE Workshop: Introduction to metrology for young and early career marine scientists

Technology is continuously improving the ability to provide copious quantities of diversified marine data over large areas at reasonable costs and, slowly but surely, the idea of a truly global real-time ocean observing “system of systems” is gaining maturity. But to be useful - particularly at a transnational level - all incoming data have to be comparable and amenable to fitness-for-purpose assessments in relation to specific user requirements. Implicitly, this means that the measurements from which they are derived should be metrologically sound, traceable to the SI as far as possible, and must respect the international system governing measurement. Basically, the degree to which these three conditions are realized will constitute the validity and value of any gathered data, especially in the long-term and from the point of view of usability.

Understanding that people will be key to mainstreaming metrology into the marine observing field, the EU project, MINKE, is organizing a three-days training-workshop entitled “**Introduction to metrology for young and early career marine scientists**” to begin to address the existing gulf between the relevant communities. The first day of the workshop will be dedicated to the specificities of measuring in the marine environment, the second to hands-on sessions/demonstrations in the laboratory, and the third will focus on the metrological context, where issues such as calibration and the traceability of measurements will be discussed.

The workshop will be held from 15 to 17 November 2022 in Helsinki, Finland, as a hybrid event permitting either remote (virtual) or on-site participation, with the possibility of a shift to a fully online event in the case of a national/global COVID-19 emergency. Check the latest restrictions and guidelines: <https://raja.fi/en/frontpage>

A limited amount of funding is available for supporting in-person attendance, and participants wishing to avail of this possibility should fill in the attached application form (see Appendix 1) and send it to the organizing committee by the 13th of October. Only expenses relating to international travel (from an applicant’s country of residence to Helsinki and back) and local accommodation costs will be considered. Workshop organizer will book the flights and accommodation for the participants selected to be funded. Kindly note that priority will be given to applicants from the developing countries in the selection process for awarding reimbursement. We seek a balance in the background of the funded participants (students, early-career scientists, technical persons), in the field of science (biology, chemistry, physics etc.) and in the geographical distribution. **Participants receiving financial support will be required to prepare and present short (5-10 minutes) talks in English** concerning their work during the workshop to help foster networking.

MINKE stands for Metrology for Integrated marine maNagement and Knowledge-transfer nEtwork, and it is an EU project that is aiming to try to lay down the foundations of a framework for making measurements coming from Ocean and Coastal Observing Systems more reliable. The project is funded under the European Union’s Horizon 2020 Call entitled “Integrating and opening research infrastructures of European interest”.

The overall goal of MINKE is to integrate key European marine metrology research infrastructures, and to coordinate their use and development working together with stakeholders such as the marine research organisations, instrument manufacturers, the international metrology community, academia, industry, and civil society. The project is proposing an innovative framework of “data quality” for marine data that is multidimensional in character, considering not only “accuracy” but also other dimensions such as “completeness”.

Find out more about the MINKE project at: <https://minke.eu/>

APPENDIX 1. Application for receiving financial support to participate in the MINKE workshop

1. Name and current address of the applicant

2. Nationality and country of residence (if different from the country of origin)?

3. English language skills

- a. No Proficiency
- b. Elementary Proficiency
- c. Limited Working Proficiency
- d. Professional Working Proficiency
- e. Native / Bilingual Proficiency

4. Are you a student of the Marine Sciences? If yes, specify the details of your course of study

- a. Undergraduate or postgraduate _____
- b. Name of university, institution, etc. _____
- c. Faculty/program _____
- d. State of progress (e.g. number of credits completed, number of years completed)

- e. Explain shortly (max. 1000 characters) how you expect the workshop to help you in your studies

5. Are you an early-career marine scientist? If yes, specify the details of your current position

- a. Degree _____
- b. Year of completion of Degree _____
- c. Employer _____
- d. Current position and job description

6. Are you a member of the technical personnel of marine sciences? If yes, specify the details of your current position

- a. Degree_____
- b. Year of completion of Degree_____
- c. Employer

- d. Current position and job description

- e. Explain shortly (max. 1000 characters) how the workshop will support your work

7. Cost estimate of following travel expenses (in Euros):

International travel expenses (Airplane/train/ferry etc.) to Helsinki (return)

Local travel expenses in your country of residence

Download and send application form by the 13th of October 2022 to:
teemu.naykki@syke.fi