

PHYTOPLANKTON PIGMENT ANALYSIS COURSE

How to obtain state-of-the-art pigment analyses by HPLC

This two-day course gives you an introduction to phytoplankton pigment analyses by HPLC. The aim of the course is to improve your knowledge and broaden your skills within HPLC pigment analysis.

You will obtain all the information needed to perform state-of-the-art phytoplankton pigment analyses. The course will guide you all the way from filtering of samples to obtaining validated results of pigment concentrations, including interpretation of the results.

The course features numerous opportunities to exchange and discuss ideas and experience with fellow pigment analysts in an informal forum.

COURSE TOPICS

- Filtrating and extracting samples
- Choice of HPLC method
- HPLC/UHPLC systems and what is important for the analyses
- Defining the analysis protocol needed and getting the HPLC method running
- Calibration procedures
- Quality control and quality assurance
- Distribution of different pigments in phytoplankton groups
- Applications: calculation phytoplankton biomasses using CHEMTAX
- Demonstrations
- Course participants' own examples, challenges and problems

TARGET GROUP AND PREREQUISITES

Professionals who are interested in obtaining a general understanding of what is important to get precise and accurate results of pigment analyses.



DATES

28 and 29 October 2021

LOCATION AND VENUE

DHI, Agern Allé 5, DK-2970 Hørsholm, Denmark.

FEES

Price: € 750

The price is exclusive of VAT and taxes.

THIS IS INCLUDED

- Training material
- Lunch and refreshments
- Training certificate

LANGUAGE

Lectures and training material are in English.

REGISTRATION AND CONTACT

Deadline for registration is 31 August 2021. A minimum of participants is required for the course to proceed. DHI reserves the right to reschedule the training course up to 8 weeks prior to the course.

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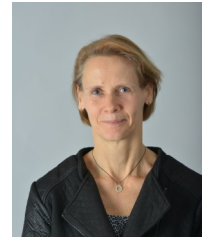
| Programme 28 October 2021 (day 1) | |
|-----------------------------------|---|
| 10:00 | Welcome to DHI (tea and coffee) / General information |
| 10:15 | HPLC/UHPLC systems and what is important for the analyses |
| 10:45 | Defining the analysis protocol needed and getting the method running |
| 11:15 | Things to adjust if the HPLC does not separate the expected peaks |
| 11:45 | Lunch |
| 12:30 | Quality assurance |
| 13:30 | Example of an accreditation at DHI |
| 14:00 | Calibration procedures |
| 14:30 | Tea & coffee break |
| 15:00 | Things to consider when analysing samples |
| 16:00 | Demonstrations |
| 17:00 | End of day 1 |
| Programme 29 October 2021 (day 2) | |
| 08:45 | Tea & coffee |
| 09:00 | Things to consider when analysing samples (cont.) |
| 10:00 | Exercise |
| 11:00 | Transfer methods from HPLC to UHPLC |
| 11:30 | Reporting results |
| 12:00 | Lunch |
| 12:45 | Calculating phytoplankton biomasses using CHEMTAX |
| 13:15 | Distribution of different pigments in different phytoplankton groups |
| 13:45 | Workshop: discussion of participants' own examples, challenges and problems |
| 15:00 | Evaluation |
| 15:30 | End of workshop |

INSTRUCTORS

LOUISE SCHLÜTER

Louise Schlüter is Head of Projects and Lead Biologist at DHI. She is responsible for the DHI LAB Products. Louise has extensive experience in determining phytoplankton group composition and biomass by pigment analysis.

MSc, PhD (Biology), University of Copenhagen, Denmark



MERETE ALLERUP

Merete Allerup is a Laboratory Technician at DHI. She is responsible for the production of phytoplankton pigment standards and for analyzing pigment samples by HPLC. Merete has extensive experience in HPLC and UHPLC methods.

Laboratory School, Copenhagen, Denmark



THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

Learn more about THE ACADEMY on www.theacademybydhi.com

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