

Postgraduate Course

Microalgae Process Design: from Cells to Photobioreactors

18 – 25 August 2017

(Bioprocess Engineering - AlgaePARC, Wageningen, The Netherlands)



AIM OF THE COURSE

This course provides the essential skills for designing optimal microalgae-based production processes, for both research and commercial purposes.

COURSE CONTENTS

Through lectures, digital cases and a photobioreactor practical, the participants will learn:

- how to describe microalgal metabolism quantitatively
- how to apply basic design principles and set up mass/energy balances for photobioreactors
- how to cultivate microalgae in fully controlled photobioreactors
- how to integrate all acquired knowledge into optimal production strategies for microalgae biomass or secondary metabolites
- how to scale it up and evaluate the impact of process parameters on production costs.

PARTICIPANTS

The course is aimed at PhD students, postdoctoral researchers, professionals both academy and industry, that would like to acquire a thorough understanding of microalgal metabolism and photobioreactor design and operation. An MSc level in bioprocess technology, or alike, is recommended.

Please note that in this course the biology and cultivation of microalgae are covered. In a second course "Microalgae Biorefinery" (Wageningen, 28 – 31 August 2017) the next process step i.e. the biorefinery will be in focus. When taking both courses we can offer a reduction in total course fee.

For more information, please contact Eva Oudshoorn (eva.oudshoorn@wur.nl).

COURSE LECTURERS & ORGANIZERS

Bioprocess Engineering - AlgaePARC, WU

Dr Maria Barbosa (course leader), Prof René Wijffels, Dr Marcel Janssen, Dr Arjen Rinzema, Dr Rouke Bosma

University of Nantes, France

Prof. Jérémy Pruvost

Algenuity, UK

Dr Andrew Spicer

The Graduate School VLAG, WU

Eva Oudshoorn, MSc

COURSE FEES ¹

VLG / WU PhD candidates	€ 400,-
All other PhD candidates	€ 800,-
Postdocs, and other academic staff	€ 1500,-
Participants from the private sector	€ 2750,-

¹ includes materials, lunches/tea/coffee, two course dinners and one BBQ.

REGISTRATION AND INFORMATION

<http://www.vlaggraduateschool.nl/en/courses/course/MPD17.htm>

For information contact:

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