



Summer School

Greenhouse Horticulture

Wageningen University & Research is the “knowledge heart” of the Dutch Greenhouse Horticulture, which is the most advanced and productive in the world. Scientists of Wageningen University & Research will share their unique knowledge with international students and researchers during this Summer School.

Target group

This excellent and intensive Summer School is meant for professionals, PhD students, post-docs and junior scientists working in the field and from all over the world. Particular attention has been given to develop a programme that also relates to and is interesting for protected cultivation with less technology than is usual in The Netherlands. So, basics will be learned to apply directly in your own country and situation.

Results

After attending the Summer School, you will:

- know the most relevant processes in protected cultivation ranging from plant physiology to economics
- understand how technology affects climate management, crop production and resource use efficiency
- be able to apply this knowledge to quantitatively address decisions about climate management, crop cultivation and nutrition

Date 26 Aug – 6 Sep 2024
Location Wageningen Campus

Course leaders Dr Silke Hemming and Prof. Leo Marcelis

Outline and topics

This programme consists of an attractive mix of lectures, practical case work and evening seminars by renowned experts. It also includes 2 days of field visits to leading international companies in the Greenhouse industry.

The following topics will be covered:

- Overview of Protected Horticulture
- Passive Greenhouse (light and functions of the cover)
- Climate management
- Basic Principles of Crop Physiology
- Potential Crop Yield
- Crop Management
- Plant nutrition and its management
- Water quality, Growing Systems and Nutrient Solutions
- Crop Protection and Integrated Pest Management



Programme

Monday 26 August 2024

- **Introduction to Protected Horticulture**
Prof Leo Marcelis, Dr. Ep Heuvelink, Dr David Katzin

Tuesday 27 August 2024

- **Passive Greenhouse (light and functions of the cover)**
Dr Silke Hemming, Dr Feije de Zwart, Dr David Katzin
- **Evening seminar and dinner**
Dr Jouke Campen

Wednesday 28 August 2024

- **Excursion day**

Thursday 29 August 2024

- **Crop and Rootzone, Water and Nutrition**
Dr Paul Kusuma and Jim van Ruijven MSc

Friday 30 August 2024

- **Nutrition and Irrigation**
Tommaso Barbagli MSc and Jim van Ruijven MSc

Monday 2 September 2024

- **Potential crop yield and climate management**
Dr Ep Heuvelink and Dr. Jouke Campen
- **Evening seminar and dinner**
Dr Silke Hemming

Tuesday 3 September 2024

- **Lighting in protected cultivation**
Prof Leo Marcelis, Mexx Holweg MSc, dr. Sharath Malleshaiah

Wednesday 4 September 2024

- **Excursion day**

Thursday 5 September 2024

- **Integrated Pest Management and Post-harvest quality**
Prof Gerben Messelink, Dr Marjolein Kruidhof, Dr Julian Verdonk

Friday 6 September 2024

- **Optimal Management and wrap up**
Dr Silke Hemming, Prof Leo Marcelis and Dr David Katzin

Practical information



€ 3,249.- per person and covers tuition, course materials, lunch and refreshments.
€ 2,869.- for PhD.



Max. 35 participants.



Based on your attendance you will receive a certificate after the programme has finished.

Registration

Enrollment is possible until the 16th of August 2024, or until the maximum number of participants has been reached. Register via wur.eu/academy.

Register

Wageningen Academy

We develop and organise courses for professionals, based on Wageningen University & Research expertise.

Contact

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