



INVITATION: WEB CONFERENCE 8 FEBRUARY 2021

Join the first online Web Conference of the Cascade Hydroponics-CasH project, which has been co-financed by the European Union and Greek national funds through the National Action “Bilateral and Multilateral E&T Cooperation Greece-Germany” (project code: T2DGE-0893).

The Web Conference aims to present the research results obtained so far by all the stakeholders of the project to the scientific community and the general public.

The project partnership includes organizations and educational institutes from both Greece (*University of Thessaly, Agrostis*) and Germany (*Hochschule Geisenheim University, Phytowelt*)

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- ▶ Date: **8th February 2021**
- ▶ Time: **09:45 CET** (09:45-Germany, 10:45-Greece)
- ▶ Duration: **3 hours**
- ▶ Host software: **Microsoft Teams**
- ▶ Registration deadline: **02/02/2021**
- ▶ Registration form: <https://forms.gle/t56DTtHiCog4tmmN9>

A few words about the Cascade Hydroponics Project

The overall aim of the interdisciplinary CasH consortium is to use its technology and expertise to develop and investigate “cascade” fertigation approaches as novel, integrated production concepts for intensive greenhouse horticulture. Today, greenhouse vegetables are almost invariably produced in monocultures. In addition, soilless cultivation systems are also increasing. In such systems the supply of water and nutrients is usually done by fertigation (combined fertilization and irrigation), i.e. in form of nutrient solutions. The CasH projects incorporates the circular economy concept and recirculates the drainage solution between different crops, based on their nutrient needs and sensitivity to salinity.

The research & development activities within the CasH project focus on:

- Identification of crop species suitable as secondary and tertiary crops
- Accompanying breeding aiming at the optimization of the plant cultivars to be used
- Development and iterative optimization of cultivation practices for secondary / tertiary crops
- Scientific evaluation of the systems' performance (plant responses, yield, quality etc.)
- Adaptation and extension of an existing Decision support system (DSS) to select suitable crop combinations considering the climate conditions of a location, greenhouse layout etc.
- Development of new models for the DSS, e.g. to simulate the fertigation of the primary crop
- Evaluation of environmental impacts and economic viability

►Agenda

TIME	TITLE	AUTHORS - PRESENTER	AFFILIATION
09:45 - 10:00	Please connect and say hello to each other!		
10:00 - 10:15	Welcome - short introduction	Nikolaos Katsoulas, Project Coordinator	University of Thessaly
10:15 - 10:30	The bright side of salt stress: the increase of beneficial bioactive compounds as part of plant's response	Efi Levizou	University of Thessaly
10:30 - 10:45	Design and development of the CasH system in Greece	Angeliki Elvanidi, Eleni Karatsivou, Nikolaos Katsoulas	University of Thessaly
10:45 - 11:00	Set-up of the CasH system in Geisenheim	Lilian Schmidt	Hochschule Geisenheim University
11:00 - 11:15	From the lab to the greenhouse: New herb varieties for greenhouse production developed via tissue culture based breeding	Peter Welters	Phytowelt
11:15 - 11:30	Coffee break		
11:30 - 11:45	Results of the CasH experiments in Geisenheim	Lilian Schmidt	Hochschule Geisenheim University
11:45 - 12:00	Development of a DSS for CasH cultivation systems	Vangelis Vassiliadis	Agrostis
12:00 - 12:15	Application of the CasH concept in Greece	Eleni Karatsivou, Angeliki Elvanidi, Nikolaos Katsoulas	University of Thessaly
12:15 - 12:30	Conclusion and closing of the event		

Project Coordinator: Prof. Nikolaos Katsoulas

University of Thessaly

Contact: nkatsoul@uth.gr