

Netværk for klimaklog og bæredygtig Væksthusproduktion

Sustainable and Energy-efficient Climate Management

21. september på Hvidkærvej 29, Odense og online

10.00 – 15.00

Time	Program	Speaker
10.00 - 10.15	Velkommen	Katrine Kjær og Inge Ulsted Sørensen
10.15 - 10.45	Optimer din klimastyring og spar på energien.	Katrine Kjær, HortiAdvice
10.45 – 11.15	Digitalisering af energistyring i væksthushortnerier – hvad skal vi bruge det til?	Jesper Mazanti Aaslyng, The Danish Technological Institute
11.15 - 12.00	Plant Empowerment, the new holistic roadmap to sustainable greenhouse horticulture	Peter van Weel, Plant Empowerment
12.00 - 12.45	Frokost	
12.45 - 13.30	Capture CO ₂ from the atmosphere and utilize it to boost plant growth	Jarle Skjærveland/Michel Verheul, Greencap Solutions/NIBIO
13.30 -14.15	Balancing crop production and energy harvesting in organic solar-powered greenhouses	Brendan O'Connor, North Carolina State University
14.15 – 15.00	Spørgsmål, næste møde og netværking	

Speaker	Background	Contact information
 Jesper Mazanti Aaslyng	Faglig leder af Planteteknologi på Teknologisk Institut. Har arbejdet med optimering af planteproduktion, klima og energi i væksthushproduktionen siden 1994. I de senere år har jeg været ansvarlig for udvikling af 2 software programmer til væksthushindustrien. Softwaren hjælper gartnerier med at optimere planteproduktionen, planternes klima samt energiforbruget. Softwaren er nu i brug i flere danske gartnerier. Har tidligere været lektor på Københavns Universitet, oprettet en forskerskole indenfor havebrugsområdet samt afdelingen for Planteteknologi på Teknologisk Institut. Har deltaget i mange nationale og internationale projekter om væksthushproduktion.	Jeaa@teknologisk.dk +45 722 03 444
 Peter van Weel	During his 42-year career as a researcher at Wageningen University & Research Peter van Weel developed systems that are usual in today's greenhouses, such as ebb and flood watering, roof cleaner, movable benches and aquaponic systems. Together with Jan Voogt he developed a climate control strategy 'Aircokas' based on sensors and laws of physics. A patent and a publication in 2008 describes this strategy and explains how to measure and control the stomata opening of a plant. After his retirement in 2016 he started the private company Weel.Invent to develop integrated, robust, low-investment and uncomplicated production systems for greenhouses. He is a co-author of the book 'Plant Empowerment' and supports growers, advisors and manufacturers to implement this plant control strategy based on sensor information. Plant Empowerment is an integrated approach based on physics and plant physiology that leads to a balanced growth of protected crops and results in healthy resilient plants, high yield and quality, low energy costs and economic greenhouse concepts.	Weel.invent@gmail.com +31(0)6-512 29 820
 Michel Verheul	Michel Verheul is a Research Scientist with a background in Horticulture at Wageningen University, a PhD from the Swiss Institute of Technology and a Post-doc in plant physiology at University of Groningen. He has the last 25 years been working on plant production in controlled environments as Research Scientist at the Norwegian Institute of Bioeconomic Research (NIBIO), developing new (greenhouse) production systems using artificial light adapted to Nordic situations.	Michel.verheul@nibio.no +47 934 08 525

 Jarle Skjæveland	Jarle Skjæveland was one of the three founders of the GreenCap technology in early 2016. GreenCap has developed a sustainable way to capture CO₂ from ambient air and a climate system (ECS) for closed production within greenhouses. He has his educational background from finance and has over the last 30years held various commercial and administration positions, developing and scaling projects and companies.	jsk@greencap-solutions.com +47 976 40 474
Brendan O'Connor	Professor for the Department of Mech. and Aero. Engineering at North Carolina State University.	btoconno@ncsu.edu