

## Program at a glance

	Monday 21th October (Biznis Hotel, Lokeren)	Tuesday 22nd October (Biznis Hotel, Lokeren)	Wednesday 23th October (PCS, Destelbergen)		
8.30					
9.00			Transport to PCS		
9.30			Talk F. de Zwart and H. Giday		
10.00	Arrival & Welcome	Climate control <sup>(*)</sup>	Interactive discussion & Future vision of greenhouse Horticulture		
10.30		Coffee Break			
11.00	GreenGrowing internal administration <sup>(**)</sup>	Interactive discussion			
11.30					
12.00	Lunch	Lunch & Visit local reserve	Lunch		
12.30					
13.00	Supplemental Lighting <sup>(*)</sup>			Heat storage & Smart Grids <sup>(*)</sup>	Open meeting "Energy efficient horticulture in Europe" <sup>(*)</sup>
13.30					
14.00	Interactive discussion	Interactive discussion			
14.30					
15.00	Coffee Break				
15.30	Greenhouse construction <sup>(*)</sup>	Interactive discussion			
16.00					
16.30	Interactive discussion	Coffee Break			
17.00		Future greenhouse concepts <sup>(*)</sup>			
17.30	Social Event & dinner	Interactive discussion			
18.00					
18.30		Break			
19.00		Dinner			
20.00					

## Detailed program

Monday 21th October at the Biznis Hotel, Lokeren	
9.00	
9.30	
10.00	
10.30	Arrival & Welcome (10.00 – 11.00)
11.00	
11.30	GreenGrowing internal administration (11.00 – 12.00)
12.00	
12.30	Lunch (12.00 – 13.00)
13.00	<p><b>Session 1: Supplemental Lighting (13.00 – 14.10)</b></p> <ul style="list-style-type: none"> <li>• GreenGrowing: the way forward – B. Gobin</li> <li>• Effects of LED on photosynthesis – E. Rosenkvist</li> </ul>
13.30	<ul style="list-style-type: none"> <li>• LED's and multi-tiered controlled environment growing systems – P. Davis</li> <li>• Effects of LEDs on Photosynthesis and Secondary Metabolites on Roses, Chrysanthemums, and Campanulas – T. Ouzounis</li> </ul>
14.00	<ul style="list-style-type: none"> <li>• New technologies for horticultural lighting - how much can we save? – K-J. Bergstrand</li> </ul>
14.30	Interactive discussion (14.10 – 15.10)
15.00	
	Coffee Break (15.10 – 15.30)
15.30	<p><b>Session 2: Greenhouse construction (15.30 – 16.15)</b></p> <ul style="list-style-type: none"> <li>• ZINEG The future has arrived in German horticulture. Research greenhouses and pioneers in horticulture praxis – D. Ludolph</li> </ul>
16.00	<ul style="list-style-type: none"> <li>• Low E-glass, an alternative for horticultural production? – A. Bettin</li> <li>• Passive climate control: the role of greenhouse design – J. Pieters</li> </ul>
16.30	
	Interactive discussion (16.15 – 17.15)
17.00	
17.30	
18.00	
	Energetic excursion and dinner (departure 17.45)
18.30	

<b>Tuesday 22nd October at the Biznis Hotel, Lokeren</b>		
9.00	<p align="center"><b>Session 3: Climate control (9.00 – 10.40)</b></p> <ul style="list-style-type: none"> <li>• Effects of dynamic control in greenhouses – C.o. Ottosen</li> <li>• An online greenhouse simulator ‘The Virtual Greenhouse’ – O. Körner</li> <li>• Microclimate control in greenhouses based on phytomonitoring data – U. Schmidt</li> <li>• Saving heating energy through dynamic set points controlled by outside temperature, irradiation and wind speed – S. Wartenberg</li> <li>• Advanced Model-based Greenhouse Climate Control Using Multi-objective Optimization – J. C Sørensen</li> <li>• Energy savings in Danish nurseries, current situation and needs for future developments – J. Rystedt</li> </ul> <p align="center"><b>Coffee break (10.40 – 11.00)</b></p> <p align="center"><b>Interactive discussion (11.00 – 12.00)</b></p>	
9.30		
10.00		
10.30		
11.00		
11.30		
12.00		
12.30		
13.00		<b>Lunch &amp; visit local reserve (12.00 – 14.30)</b>
13.30		
14.00		
14.30	<p align="center"><b>Session 4: Heat storage &amp; smart grids (14.30 – 15.15)</b></p> <ul style="list-style-type: none"> <li>• Using the heat storage to support the grid-balance with CHP – H. Mariën</li> <li>• Greener than Green Greenhouses – J. Bozelie</li> <li>• Gas absorption heat pumps and borehole energy storage in semi closed greenhouses – E. Eriksson</li> <li>• Using Flexibility in Greenhouse Climate Parameters to Guide Smart Grid Markets – J.Verhoosel</li> </ul>	
15.00		
15.30		<b>Interactive discussion (15.15 – 16.15)</b>
16.00	<b>Coffee break (16.15 – 16.30)</b>	
16.30	<p align="center"><b>Session 5: Future greenhouse concepts (16.30 – 17.45)</b></p> <ul style="list-style-type: none"> <li>• Towards more efficient energy use in Norwegian greenhouse production – M. Verheul</li> <li>• Greenhouse production with less energy: a plants’ perspective – P. Lootens</li> <li>• To be announced– B. Paris</li> <li>• A vision on the use of plant sensors and models in the greenhouse industry – K. Steppe</li> <li>• Production of ornamentals with minimal energy input – V. Dias</li> </ul>	
17.00		
17.30		
18.00		<b>Interactive discussion (17.45 – 18.45)</b>
18.30		
19.00	<b>Dinner at hotel (19.00)</b>	

<b>Wednesday 23th October at the Research station for Ornamental Plants, Destelbergen</b>	
9.00	<b>Transport to PCS, Destelbergen</b>
9.30	
	<ul style="list-style-type: none"> <li>• Latest figures of the energy conserving greenhouse designs on the Innovation and Demonstration Centre in Bleiswijk, The Netherlands – F. de Zwart</li> <li>• Cultivar difference in plant transpiration rate at high air humidity are not related to genotypic variation in stomatal responsiveness – H. Giday</li> </ul>
10.00	<b>Interactive discussion &amp; Future vision of greenhouse horticulture (10.00 – 12.00)</b>
10.30	
11.00	
11.30	
12.00	
12.30	<b>Lunch (12.00 – 13.30)</b>
13.00	
13.30	<b>Open meeting “Energy efficient horticulture in Europe”</b>  Welcome & introduction GreenGrowing – depute Alexander Vercamer Saving energy in German greenhouses – D. Ludolph The future in Norwegian greenhouse horticulture – M. Verheul Future vision of energy management in the North Sea Region – C. Ottosen Coffee break Smart solutions for greenhouse ornamentals – B. Schamp Possible energy saving innovations in Flemish horticulture – E. Eriksson Decrease your energy bill – I. Goessens (Innovatiesteunpunt) Get funding for your energy project – KBC bank Reception with interactive discussion
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