

Nr	Date	Time	Session	Speaker	Title
	<b>26 June</b>	09:00	<b>Opening and welcome words</b>		
1		09:20	<b>Hop breeding I</b>	Koutoulis A	Recent advances in hop research in Australia
2		09:40	<i>Chair: Seigner E.</i>	Nesvadba V	Hop breeding in the Czech Republic
3		10:00		Lutz A	Development of a new Huell hop cultivar - innovative strategies together with the hop and brewing industry
		10:20		Momma T	Evolution of hop breeding; crossing using male flowers induced on a female plant of hop
		10:40	Coffee break		
5		11:10	<b>Hop breeding II</b>	Seigner E	<i>Verticillium</i> wilt on hops: Real-time PCR and meristem culture – essential tools to produce healthy planting material
6		11:30	<i>Chair: Čerenak A.</i>	Matthews P	Genomic estimate breeding values for hop quality traits: Predicting adaptive loci in the wild genetic landscape of <i>Humulus</i> spp.
		11:50	<i>Time for discussion: hop breeding</i>		
7		12:00	<b>Hop microbiology</b>	Krofta K	Microbial community (phyllosphere) of hop ( <i>Humulus lupulus</i> L.) – preliminary results
8		12:20	<b>Hop physiology</b>	Kolenc Z	Effects of drought stress on hop ( <i>Humulus lupulus</i> L.): physiological and proteomic view
		12:40	Lunch break		
9		14:00	<b>Hop cultivation and management</b>	Portner J	Test of an alternative system for training of hop vines in high trellis
10		14:20	<i>Chair: Svoboda P.</i>	Donner P	Mobile hop picking and a new cleaning line for low trellis hops in the Czech Republic
11		14:40		Cancela JJ	Hop water requirements: a review and future goals
12		15:00		Thomsen MG	Norwegian hops and small-scale cultivation systems
13		15:20		Matsui H	The influence of various hop cultivation conditions on hop quality, beer quality and yield
		15:40	<i>Time for discussion: hop cultivation and management</i>		
		16:00	Coffee break		
		16:30	<b>IHGC-STC business meeting</b>		
		17:15	<b>ISHS <i>Humulus</i> Symposium business meeting</b>		
		19:30	Dinner		
14	<b>27 June</b>	09:00	<b>Phytopathology</b>	Radišek S	Management of citrus bark cracking viroid (CBCVd) on hop in Slovenia
15		09:20	<i>Chair: Laugel-Niess B.</i>	Voštrél J	Hop protection against Downy mildew ( <i>Pseudoperonospora humuli</i> ) in Czech Republic
16		09:40		Wolf S	An overview on forecasting systems for Powdery and Downy mildew in Hallertau hops
17		10:00		Gent DH	Survival, persistence, and landscape-level development of Powdery mildew
		10:20	Coffee break		
18		10:50	<b>Entomology and chemoecology</b>	Rak-Cizej M	New resistances of Two-spotted spider mite <i>Tetranychus urticae</i> to acaricides in Slovenian hops
19		11:10	<i>Chair: Melnychuk M.</i>	Weihrauch F	Flea beetle control in organic hops: Are there options?
20		11:30		Mumm R	Elucidation of the role of volatile compounds in the chemical communication of the Hop-flea beetle <i>Psylliodes attenuatus</i>
21		11:50		Delatte T	The use of metabolomics to elucidate resistance markers against Damson-hop aphid
		12:10	<i>Time for discussion: plant protection in hop</i>		
		12:30	Lunch break		
		13:30	<b>Mid-congress tour to the Mühlviertel hop growing region</b>		
22	<b>28 June</b>	09:00	<b>Hops and brewing</b>	Nelens S	Characterization of odor-active compounds in Huell Melon and Polaris hops
23		09:20	<i>Chair: Grinnell D.</i>	Schüll F	Procedure for variety substitution taking the example of Herkules and Polaris
24		09:40		Gahr A	Description and classification of two Hüll aroma breeding varieties (89/002/025 and 96/001/024) in the classic aroma variety spectrum
25		10:00		Forster A	Beer bitterness is much more than only Iso-alpha-acids!
26		10:20		Čerenak A	Examination of brewing value in Slovenian hop breeding program
		10:40	<i>Time for discussion: hops and brewing</i>		
		10:50	Coffee break		
27		11:20	<b>Molecular investigations on hops I</b>	Matoušek J	The introduction to gene network influencing lupulin and some approaches to molecular study of hop metabolome regulation
28		11:40	<i>Chair: Mamma T.</i>	Kocábek T	Transcription factor H1Myb8 regulates flavonoid biosynthesis in hop lupulin glands
29		12:00		Mishra AK	Comparative transcriptome analysis of <i>Humulus lupulus</i> wild-type and transformant co-expressing H1WRKY1 and H1WDR1 transcriptional factors
30		12:20		Patzak J	Utilization of enlarged set of molecular markers for a control of authenticity and an evaluation of genetic variability within actual hop cultivars
		12:40	Lunch break		
31		14:00	<b>Molecular investigations on hops II</b>	Jakše J	Detailed hop transcriptome for in-silico prediction and validation of potential gene targets for viroid derived small RNAs
32		14:20	<i>Chair: Koutoulis A.</i>	Feiner A	Metabolome-genome-wide association study of downy mildew resistance in hops
		14:40	<i>Time for discussion: molecular investigations on hops</i>		
33		15:00	<b>Free topics</b>	Weihrauch F	Thirty-six good reasons why it is so desirable for a hop scientist to join the STC of the International Hop Growers' Convention
		15:20	Coffee break		
		15:40	<b>Poster teaser presentations (3 minutes each)</b>		1-Nesvadba et al., Development of new aroma varieties / 2-Skomra, Magnat and Pulawsky / 3-Nesvadba et al., Czech dwarf hops / 4-Charvátová et al., Collection of hop genetic resources / 5-Štajner et al., Genotyping-by-Sequencing utilization / 6-Lutz & Seigner, DM tolerance / 7-Patzak et al., Detection of hop viruses / 8-Ieseničnik et al., Computational prediction of microRNAs / 9-Čerenak, Weather conditions / 10-Trojak-Goluch, Production of polyploids / 11-Melnichuk, Parthenogenesis / 12-Faltus & Svoboda, Germplasm conservation by cryopreservation / 13-Krofta et al., Spacial layout of hop root system / 14-Vostřel, Aphidophagous coccinellids in Bohemia / 15-Ježek et al., Roe deer browse damage /
		16:30	<b>Poster session with beers</b>		
		19:00	<b>Official congress dinner</b>		