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77TH IIRB CONGRESS

11 - 12 February 2020

Maximising sugar beet
performance
in a changing climate

Hotel Le Plaza
Brussels, Belgium

Venue

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Programme

Tuesday 11th February 2020

- 8.15 am General Assembly of IIRB members
9.05 am HERBERT EIGNER: Presidential address

Session 1: Opening session 'Maximising sugar beet performance in a changing climate' (Chair: DESIRÉE BÖRJESDOTTER, NBR)

- 9.15 am CAROLYNE DÜRR (INRA): Will climate change affect sugar beet establishment of the 21st century? Insights from a simulation study
9.40 am ELISABETH LACOSTE (CIBE): Influence of changes in the availability of plant protection products on the sugar beet sector
10.05 am Discussion
10.15 am *Coffee break*
10.45 am JAN SELS (SESVanderHave): Climate change drives upcoming challenges for sugar beet breeding – a perspective from SESVanderHave
11 am KARIN FIEDLER-WIECHERS (KWS SAAT SE & Co. KGaA): Breeding for changing environments: Drought a challenge for sugar beet
11.15 am GEORGINA BARRATT (Univ. of Nottingham): Understanding sugar beet water use efficiency (WUE)
11.35 am BARBARA MANDERYCK (IRBAB-KBIVB): Weed control in a new climate
11.55 am PAUL TAUVEL (ITB): Changing ways of thinking to produce organic sugar beet
12.15 pm Lunch break

Session 2 'Tools and technologies' (Chair: JAN WILLEM VAN ROESSEL, IRS)

- 1.30 pm ANNE-KATRIN MAHLEIN (IfZ): Summary of the IIRB seminar 'Sensors and digital technologies in sugar beet production', 17/12/2019
1.50 pm JAKE RICHARDS (Univ. of Nottingham): Using X-ray computed tomography, electromagnetic resonance and thermal imagery to understand the effects of cover crops on soil structure and sugar beet growth
2.10 pm BRAM HANSE (IRS): Integrated management of foliar diseases in sugar beet
2.30 pm CÉLINE GOUWIE (ITB): BETA'STAT: Understanding farming practice for accurate advice
2.50 pm TOBY TOWNSEND (BBRO): Benchmarking for improved sugar yields

- 3.10 pm **Poster session I** and coffee break

Session 3 'Maximising future establishment for sugar beet' (Chair: RÉMY DUVAL, ITB)

- 4.30 pm DIDIER DEMILLY (GEVES): Phenotyping of sugar beet genetic diversity for better germination and early growth in cold conditions
4.50 pm DEBBIE SPARKES (Univ. of Nottingham): Improving establishment in sugar beet
5.10 pm HEINZ-JOSEF KOCH (IfZ): Sugar beet yield response to increasing row distance
5.30 pm End of day 1
7.30 pm Reception and congress dinner

Wednesday 12th February 2020

Session 4 'Growing sugar beet in a post neonic world' (Chair: MARK VARRELMANN, IfZ)

- 8 am MARK STEVENS (BBRO): Summary of the IIRB workshop 'Growing sugar beet without neonicotinoid seed treatments', 8/3/2019
8.05 am ANNE LISBET HANSEN (NBR): Effect of insecticides and strategies of insecticide applications on the control of *Atomaria linearis* and other soil borne pests
8.20 am FRÉDÉRIC BOYER (ITB): Overview of aphid and virus yellows monitoring on sugar beet in Western Europe
8.35 am ANDRÉ WAUTERS (IRBAB-KBIVB): Testing for tolerance and resistance against yellowing viruses in sugar beet varieties
8.50 am ELMA RAAIJMAKERS (IRS): The effect of new insecticides and strategies of insecticide applications on the control of aphids and virus yellows
9.05 am RALF NAUEN (Bayer CropScience AG): A broad monitoring of *Myzus persicae* resistance status in Belgium, Netherlands, Denmark and Germany urgently calls for the implementation of resistance management strategies
9.25 am HERBERT EIGNER (ARIC): Sugar-beet weevil (*Bothynoderes punctiventris*) – a threatening pest in the Pannonian sugar beet growing area
9.45 am Discussion

- 10.00 am **Poster session II** and coffee break

Session 5 'Controlling leaf diseases -Cercospora' (Chair: MARK STEVENS, BBRO)

- 11 am MELVIN BOLTON (USDA-ARS): Genome-wide association studies identify mutations associated with DMI resistance in the *Cercospora* leaf spot pathogen
11.15 am FRIEDRICH KOPISCH-OBUCH (KWS SAAT SE & Co. KGaA): Keeping sugar beet competitive with new strategies for *Cercospora* resistance
11.30 am ERWIN LADEWIG (IfZ): Effect of fungicide strategy and variety on *Cercospora* leaf spot epidemics in sugar beet
11.45 am MARK VARRELMANN (IfZ): Relation between *Cercospora beticola* spore flight and leaf spot development after fungicide application according to disease thresholds and/or spore flight

Session 6 Panel 'Breeding for future challenges in sugar beet cultivation' (Chair: VINCENT LAUDINAT, ITB)

- 12.00 am VINCENT LAUDINAT (ITB): Introduction and presentation of speakers
12.05 pm Short breeder statements
HENDRIK TSCHOEP (SESVanderHave)
ANDREAS LOOCK (KWS SAAT SE & Co. KGaA)
JOAKIM HERRSTRÖM (MariboHilleslög)
MARGARET REKOSKE (Betaseed Inc.)
AXEL SCHECHERT (Strube Research GmbH & Co. KG)
BRUNO DESPREZ (Florimond Desprez)
12.35 pm Discussion
1 pm Lunch break

Session 7 'Open session' (Chair: HERBERT EIGNER, ARIC)

- 2 pm RÉMY DUVAL (ITB): Reduced tillage in sugar beet crop systems: synthesis of a 20 years field experiment
2.20 pm SILVIA MADRITSCH (AIT Austrian Institute of Technology): Variety-specific molecular mechanisms in sugar beet during an extended storage time
2.40 pm GUNNAR KLEUKER (IfZ): Impact factors on the tissue strength, damage susceptibility and storability of sugar beets
3.20 pm End of congress