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77TH IIRB CONGRESS

**Maximising sugar beet
performance
in a changing climate**

11 - 12 February 2020

**Hotel Le Plaza
Brussels, Belgium**

Venue

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INTERNATIONAL INSTITUTE
OF SUGAR BEET RESEARCH

Tuesday 11th February 2020

8.15 am General Assembly of IIRB members

77th IIRB Congress

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): 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): 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
MARGARET REKOSKE (Betaseed)
BRUNO DESPREZ (Florimond Desprez)
ADAM SITARSKI (KHBC)
ANDREAS LOCK (KWS)
JOAKIM HERRSTRÖM (MariboHillesög)
HENDRIK TSCHOEP (SESVanderHave)
AXEL SCHECHERT (Strube Research)

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): 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