

Thursday 7th June 2018

- 8.15 am Bus departure to field day from Deauville
- 9.30 am Arrival on the Neubourg plateau
Visit of a flax cooperative
- ◇ Presentation of the culture
 - ◇ Visit of a scutching factory
 - ◇ Visit of a flax cultivating farm
- 12.45 pm Departure to the Château du
Champ de Bataille
- 1.00 pm Lunch
Free time for visit of castle or park
- 3.00 pm End of Congress, bus departure to
Roissy Airport or Paris
- alternatively*
- 4.00 pm Departure to Deauville
- 5.30 pm Arrival at the hotels in Deauville

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76TH IIRB CONGRESS

5 - 7 June 2018

Centre International
de Deauville (C.I.D.)

1, av. Lucien Barrière
F – 14800 Deauville



Programme

Tuesday 5th June 2018

8.30 am General Assembly of IIRB members

9.20 am JEAN-PIERRE VANDERGETEN: Presidential address

1 The French sugar beet sector: Technical focus and societies' perception of progress

(Chair: JEAN-PIERRE VANDERGETEN, ALEXANDRE QUILLET)

9.30 am HERVÉ MORIN (President, Normandy region): Political support of French regions of research and innovation in agriculture

9.50 am ERIC LAINE (Vice-President, AIBS): Organisation of the French sugar beet sector facing the new non-quota era

10.10 am ALEXANDRE QUILLET (President, ITB): The positioning of ITB in the sector to enhance beet productivity

10.30 am *Coffee break*

11.00 am VINCENT LAUDINAT (ITB): AKER and SYPPRE, two sources of competitiveness for the future

11.20 am BRUNO DESPREZ (Florimond Desprez): Phenotyping with AKER

11.40 am CHRISTIAN HUYGHE (INRA): Societies' perception of technical progress

12.00 am *Lunch break*

2 Improving yields through data capture

(Chair: VINCENT LAUDINAT)

1.30 pm ANNE-KATRIN MAHLEIN (IfZ, D): Optical sensors for the detection of biotic and abiotic stress in sugar beet – principles and case studies from different scales

1.50 pm FABIENNE MAUPAS (ITB, F): High-throughput phenotyping of sugar beet crops using UAV-based multispectral imagery

2.10 pm AGATA KACZMAREK (Univ. Nottingham, UK): SporeID – innovative disease monitoring and automated diagnostics for improved efficiency of crop production

Poster session 1

2.30 pm - 3.30 pm (including *coffee break*)

3 Improving soil health and resilience in the sugar beet rotation

(Chair: HERBERT EIGNER)

3.30 pm DAVID TARKALSON (USDA-ARS, USA): Yield production functions of irrigated sugar beet in an arid climate

3.50 pm ABAZAR RAJABI (SBSI, IR): Effect of water deficit stress on physiological and biochemical traits of sugar beet genotypes

4.10 pm TAMARA FITTERS (Univ. Nottingham, UK): Root development of sugar beet under varying water availability

4.30 pm JENNIFER BUSSEL (Univ. Nottingham, UK): Identifying rooting traits for optimal nutrient uptake

4.50 pm RÉMY DUVAL (ITB, F): Legumes as cover crops preceding sugar beet. Impacts on N₂O emissions

5.10 pm HEINZ-JOSEF KOCH (IfZ, D): Sugar beet yield response to frequency of cultivation and preceding crop

7 pm Reception

Wednesday 6th June 2018

4 Tackling ongoing and future pest, disease and weed challenges

(Chair: MARK STEVENS)

8.30 am ERWIN LADEWIG (IfZ, D): Breeding progress and integrated pest management – case study *Cercospora beticola*

8.50 am JAY MILLER (Betaseed, USA): Sugar beet breeding progress of *Cercospora* resistant varieties in North America

9.10 am MELVIN BOLTON (USDA-ARS, USA): The new and improved cercosporin biosynthesis cluster from *Cercospora beticola*

9.30 am FRÉDÉRIC BOYER (ITB, F): An observatory network to monitor the durability of genetic resistance against rhizomania disease in France

9.50 am FRIEDRICH KOPISCH-OBUCH (KWS, D): Maintaining high levels of Rhizomania resistance in sugar beet cultivars

Poster session 2

10.10 am - 11.10 am (including *coffee break*)

Session 4 continued

(Chair: MARK VARRELMANN)

11.10 am MARK STEVENS (BBRO, UK): The likely consequences and implications of growing sugar beet without neonicotinoid seed treatments

11.30 am LUCY JAMES (ADAS, UK): A novel pre-breeding strategy to reduce dependence on insecticides for virus yellows control in sugar beet

11.50 am ANDRÉ WAUTERS (IRBAB, B): *Curtobacterium flaccumfaciens* pv *betae* causing silvering disease in sugar beet

12.10 pm MARK VARRELMANN (IfZ, D): Risk assessment for pesticide resistance in sugar beet pathogens, pests and weeds

12.30 pm BARBARA MANDERYCK (IRBAB, B): Challenges and new approaches in weed control in sugar beet

1 pm *Lunch break*

5 Open session

(Chair: JEAN-PIERRE VANDERGETEN)

2.30 pm LOTHAR FRESE (JKI, D): Genetic diversity of *Patellifolia*, a crop wild relative of cultivated beets

2.50 pm MITCH McGRATH (USDA-ARS, USA): The EL10 sugar beet genome: Prospects for dissecting genetic control of everything

3.10 pm AXEL SCHECHERT (Strube, D): Sugar beet breeding in a changing environment

3.30 pm *Coffee break*

4 pm MARTIJN LEIJDEKKERS (IRS, NL): Primed sugar beet seed, when stored for one year with moisture absorber or in the freezer, maintains vigour and active substances

4.20 pm CHRISTA HOFFMANN (IfZ, D): Storage losses of sugar beet as affected by harvesting system and variety

4.40 pm JOAKIM EKELÖF (NBR, S): Damage susceptibility and storage losses of sugar beet varieties from different environments

5 pm HENDRIK TSCHOEP (SESVanderHave, B): Post-harvest storability in *Beta vulgaris*: research and perspectives from SESVanderHave

5.20 pm Closing of technical sessions

7 pm IIRB Reception and congress dinner