Thursday 23rd June 2022

Excursion to Gembloux Agro-Bio Tech

Visit to Gembloux Agro-Bio Tech, University of Liège. Founded in 1860, the Faculty of Gembloux is the oldest Belgian teaching and research institution dedicated to agronomy and biological engineering.

8 am Bus departure to Gembloux Agro-Bio Tech

9 am Arrival at Gembloux, welcome coffee

9.20 am Frédéric Francis: Welcome, presentation of Agro-Bio Tech and TERRA research unit

9.30 am Visit of TERRA research centres:

Environment is life - Understanding and predicting the influence of environmental factors on terrestrial ecosystem dynamics

Agriculture is life – Guaranteeing a highquality level of agricultural production that respects the environment

Food is life – Designing tomorrow's food. enhancing agro-ressources, developing bio-processes and innovative bioproducts

Forest is life – Understanding how forests work in order to better manage them.

1 pm Lunch, Ferme de Profondval

2.30 pm Return to Mons, Brussels or BRX airport (arrival ~4 pm)

Venue

Wallonia Conference Center Mons (WCCM) 9. Avenue Mélina Mercouri

B - 7000 Mons

Sponsors

We are grateful to the following sponsors of the 78th IIRB Congress:

Main sponsors



















Further sponsors

















Session 6 'Combining approaches to prevent and limit Virus Yellows epidemics' is supported by PNRI



In collaboration with



IIRB aisbl

Office: Holtenser Landstr. 77 D – 37079 Göttingen

Seat: 40, Rue Washington B – 1050 Brussels

Phone: +49 (0) 551 500 65 84 E-mail: mail@iirb.org Web site: www.iirb.org

78TH IIRB **CONGRESS**

'Growing sugar beet for the future'

21 - 23 June 2022

WCCM — Wallonia Conference **Center Mons, Belgium**



Programme

Susacrinx Street (1/2): Femosphere a trial field for original drop protection in sugar beet production of good necession of Agriculture's strength adapting to climatic and environmental challenges' (Chair: Dasset Biolizassi Biolizasson 19)	Prograi	mme				
4.50 pm (Chair Desiret Böhrusson-Tris) 9.20 am Desirée Börjesdotter: Presidential address 9.30 am Desirée Börjesdotter: Presidential address 9.30 am Jones Retures (LVO): Agriculture in the climate policy 10.00 am Duses STILMANT (CRA-W): The challenge of control and policy of the composition of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversification of agno-food systems with a special focus on the lever offered by cropping systems diversified to the more offered by cropping systems diversified to the more offered by cropping systems diversified to the plant protection products and alternative solutions considering furname health and an application systems of the special form of the defence interest plant protection products and alternative solutions considering furname health and an application systems of the special diversified systems of the defence interest plant protection products and alternative solutions of the special form of the special systems of the special diversified systems of the special system	Tuesday	y 21 st June 2022	4.30 pm			
Opening session 'Agriculture's strength adapting to climatic and environmental challenges' (Chair. Desired Biolascionter. Presidential address 9.30 am Jones Reuaes (LIVO): Agriculture in the control of economic, environmental and climate policy of agroecological transition of agric flows and climate policy of agroecological transition of agric flows and climate policy of the break 11.00 am Diomes Transmark (RBAW): The challenge of agroecological transition of agric flows on the lever offered by cropping systems diversification of agric flows on the lever offered by cropping systems diversification of agric flows on the lever offered by cropping systems diversification of agric flows on the lever offered by cropping systems diversification and the properties of the break 11.00 am Brawn Van De Poet (Univ.) Poet (Linker) of Levene): Agriculture and an applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop and technical may be applied research and expertise for the field crop	8.15 am	General Assembly of IIRB members	4 50 nm		11.40 am	
Session 2 Optimising crop growth Chair-Habeet Excised? Session 3 Optimising crop growth Chair-Habeet Excised? Session 3 Optimising crop growth Chair-Habeet Excised? Session 3 Optimising crop growth Session 4 Optimising crop growth Session 3 Optimising crop growth Session 4 Optimising crop growth Session 5 Optimising crop growth Session 6 Optimising Cropopropal growth Session 8 Optimising Cropopropal			4.00 pm	nical vs. chemical weed control in sugar beet: soil erosion, soil fauna, toxicological risks, and CO ₂		Lunch break
9.30 am Jose ReLass (ILVO), Agriculture in the context of economic, environmental and climate policy and process of defay 1 and policy and poli	(Chair: Desirée Börjesdotter)		F 10		Session	5 (continued)
context of economic, environmental and climate policy and Diores STILMANT (CRA-W): The challenge of agreeological transition of agro-food systems with a special focus on the lever offered by cropping systems diversification 10.00 am Brank Max ne Poet. (Unit): of Leuven): Agrivoltaics 10.00 am Brank Max ne Poet. (Unit): of Leuven): Agriv		•	•	One through bandspraying	1.30 pm	the identification of genes relevant for nematode
climate policy 1.0.0 am Dister STILMANT (RBAW): The challenge of agroecological transition of agroe-food systems with a special focus on the lever offered by cropping systems diversification 10.30 am Coffee break 11.00 am BRAM VAN De Poet. (Univ. of Leuven): Agrivatiates 11.20 am PIETER SPANACHE (URent): Balance between plasm collection in the U.S. IMPSS for sugar beet resistance breeding (Chair: Heunant Tschoep) 8.00 am Districture and expertise for the bellion on state of the breeding of the plasm collection in the U.S. IMPSS for sugar beet sector supplied research and expertise for the Belgian sugar beet sector 12.00 pm Lunch break Session 2 Optimising crop growth' (Chair: Heanstrain Natural Programs of Chair Heanstrain Natural Programs of SBR tolerant varieties at SESVanderHave): Breeding for sugar beet sector supplied research and expertise for the Belgian sugar beet sector 1.50 pm Gravar Boantes (BOKU Wien): Management options to improve drought resilience in sugar beet variety improvement of cannoy architecture on radiation use efficiency and yield potential of sugar beet sector supplied research and succeeding voing sugar beet sector supplied research and succeeding voing sugar beet under contrasting N fertilization 1.50 pm Gravar Boantes (BOKU Wien): Management options to improve drought resilience in sugar beet variety improvement to the most toribust high-teen filed crop networks in sugar beet defence responses to Aphanomyces cochiloides 1.50 pm Farsor Boantes (BOKU Wien): Management options to improve drought resilience in sugar beet variety improvement to support chemical disposates in sugar beet treatment indicate benefits in sugar beet growing sugar beet to sugar beet under contrasting N fertilization sugar beet for the proposed varieties at SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave in pact of cannoy architecture on radiation use efficiency and yield potential of sugar beet search and the proposed potentia	9.30 am		•	•		_
agroecological transition of agro-food systems with a special focus on the lever offered by cropping systems diversification 10.30 am Coffe break 11.00 am BRAM VAN DE PCE. (Univ. of Leuven): Agrivoritatics 11.20 am PIETES SPANDORE (UGent): Balance between plasm collection in the U.S. NPSS for sugar beet resistance breeding (*Chair: HENDIRK TSCHOEP) 11.20 am PIETES SPANDORE (UGent): Balance between plasm collection in the U.S. NPSS for sugar beet resistance plasm collection in the U.S. NPSS for sugar beet resistance plasm collection in the U.S. NPSS for sugar beet resistance plasm collection in the U.S. NPSS for sugar beet resistance solutions considering human health and environment 11.40 am HEID PITTOMILS (IRBAB): IRBAB; 90 years applied research and expertise for the Belgian sugar beet sector 12.00 pm Lunch break Session 2 *Optimising crop growth' (Chair: HERBERT EIGNER) 1.30 pm HEINZ-JOSER KOCH (ITI): Effects of different cover crops on soil structure and succeeding young sugar beet under contrasting N fertilization 1.50 pm GENONT BOONER (BOKU Wien): Management options to improve drought resilience in sugar beet the options to improve drought resilience in sugar beet resistance as efficiency and yield potential of sugar beet experiences with biological seed to support chemical control of aphids and Virus Yellows: Session 3 *Advanced crop management' (Chair: Anne-Karrin MAHLEIN) 4.10 pm ABEL RAMPERO, FALONIO SINZILA (ITS): Late and succeeding the part through variety improvement by a supar beet yellows in sugar beet yellows in sugar beet yellows in sugar beet yellows in sugar beet yellows resistance in sugar beet resistance in sugar beet are the properties of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 *Advanced crop management' (Chair: Anne-Karrin MAHLEIN) 4.00 pm AUSTRAM MAHLEIN) 5.00 pm GENARD MORE (ITB): LITERAL a light but very suparable to the properties of DMI fungicide resistance in accordance in s	10 00 am	climate policy	7.00 pm	Coach departure congress dinner	1.50 pm	application strategies of entomopathogenic fungi
Session 2 'Optimising crop growth' (Chair HERDERT (SENE) 1.30 pm HENZ-JOSEP KOONE (BOKU Win): Management options to improve drought realisinate in sugar beet under contrasting N fertilization 1.50 pm GERNOT BONDER (BOKU Win): Management options to improve drought realisinate in sugar beet under contrasting N page to canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm OSESSION 3 'Advanced crop management' (Chair: HERDERT (Linix: of Nottingham): The impact through variety improvement OCHAIR: All pm Assessments of relevant leaf office break Session 3 'Advanced crop management' (Chair: Anne-K-ATRIN MAHLEIN) Assessments of relevant leaf diseases in sugar beet variety thrist by multispected UAV 1.20 pm Assessments of relevant leaf diseases in sugar beet variety thrist by multispected UAV 1.20 am Birth Rapers (T. Faculton of Noticingham): The impact to canopy architecture on radiation use efficiency and yield potential of sugar beet 2.10 pm Assessments of relevant leaf diseases in sugar beet textens for faculty in the contrasting of the page to canopy architecture on radiation use afficiency and yield potential of sugar beet 2.10 pm Assessments of relevant leaf diseases in sugar beet in more only only a sugar beet in the U.S. NPGS for sugar beet in provement to the most robust high certain from plant from the U.S. NPGS for sugar beet the developed threat management of a sugar beet under contrasting in the U.S. NPGS for sugar beet threat to the most robust high certain and expertises of the feat tane to the most robust high certain and expertises of the feat tane to the most robust high certain plant of the most robust high certain plant in the U.S. NPGS for sugar beet threats to the most robust high certain plant of the most robust high certain plant to the most robust high certain plant t	10.00 am	agroecological transition of agro-food systems with a special focus on the lever	Wednesday 22 nd June 2022		0.10	
10.30 am Coffee break 11.00 am BRAM VAN DE POEL (Univ. of Leuven): Agrivorlatics 11.20 am PIETER SPANOGHE (UGent): Balance between plant protection products and alternative solutions considering human health and environment 11.40 am HEIDI PTTOMVILS (IRBAB: JRBAB: 90 years applied research and expertise for the Belgian sugar beet sector 12.00 pm Lunch break Session 2 'Optimising crop growth' (Chair: Herbert Eicner) 1.50 pm GERNOT BODNER (BOKU Wien): Management options to improve drought resiliance in sugar beet under contracting but efficiency and yield potential of sugar beet under contracting to the circle crop and sugar beet value for sugar beet under contracting to the circle crop and sugar beet control to the control of the c			Weare	Sudy 22 Odile 2022	2.10 pm	storability of sugar beet
Agrivoltaics 11.20 am Piters SPANGOHE (UGent): Balance between plant protection products and alternative solutions considering human health and environment experience of the provided of the provided of the plant protection products and alternative solutions considering human health and environment experience of the plant protection products and alternative solutions considering human health and environment experience of the plant protection products and alternative solutions considering human health and environment experience of the plant protection products and alternative solutions considering human health and environment experience of the plant protection products and alternative solutions considering human health and environment the plant protection products and alternative solutions considering human health and environment the plant protection products and alternative solutions considered the product of the fast lane to the most robust high-tech field-crop. 11.40 am Interview of the Belgian sugar best sector 12.00 pm Lunch break Session 2 'Optimising crop growth' (Chair: Herser Eigner) (Chair: Herser		Coffee break	Session		2.30 pm	Coffee break
plant protection products and alternative solutions considering human health and environment 11.40 am Helbu Pittownus (IRBAB): IRBAB: 90 years applied research and expertise for the Belgian sugar beet sector 12.00 pm Lunch break Session 2 'Optimising crop growth' (Chair: HERBERT EIGNER) 1.30 pm Henz-Joser Koch (IfZ): Efficats of different cover crops on soil structure and succeeding patent with the strom of the structure and succeeding patent with the strom of the structure on relation use fricency and yelied potential of sugar beet session I and coffee break Session 3 'Advanced crop management' (Chair: Anne-KATRIN MAHLEIN) Session 3 'Advanced crop management' (Chair: Anne-KATRIN MAHLEIN) FARACOIS JOUGLEAT (ITB): LITERAL a light but extensive phenotyping tool for beets 4.10 pm Alex Barkero, Faculty trials by multispectral UAV Sessions 5 Management of relevant leaf diseases in sugar beet reading the fast lane to the most robust high-tech field-crop the fast lane to the most robust high-tech field-crop applied research and expertise for the fast lane to the most robust high-tech field-crop applied the fast lane to the most robust high-tech field-crop applied research and expertise for the fast lane to the most robust high-tech field-crop applied the stead of the significant of the sample defence in against Cercospora' and effective and relations of the part of the form of products and sugar beet and effective and relationship and the significant of the products against virus yellows: Session 3 'Advanced crop management' (Chair: Anne-KATRIN MAHLEIN) 1.00 pm FarakCoir Jouget Agriculture on radiation use efficiency and yelied potential of sugar beet treatment indicate benefits in sugar beet growing but extensive phenotyping tool for beets 4.10 pm FarakCoir Jouget Agriculture on radiation use applied the products against Myzus persicae to prevent sugar beet yellows 1.00 pm FarakCoir Jouget Agriculture on radiation of sugar beet treatment for a sustainable use 1.00 pm FarakCoir Jouget Agriculture on radi		Agrivoltaics	8.00 am	plasm collection in the U.S. NPGS for sugar beet	Session	Virus Yellows epidemics'
solutions considering human health and environment environment breeding. The fast lane to the most robust high-tech field-crop applied research and expertise for the Belgian sugar beet sector. 12.00 pm Lunch break Session 2 'Optimising crop growth' (Chair: HernBert Eigner) 1.30 pm (Senaro Booker (BOKU Wien): Management options to improve drought resilience in sugar beet redirence in dicate benefits in sugar beet redirency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chier: ANNE-KARTIM MAHLEIN) Session 3 'Advanced crop management' (Chier: ANNE-KARTIM MAHLEIN) 1.41 pm Mert Basada of the fast lane to the most robust high-tech field-crop applied resistance to the most robust high-tech field-crop applied resistance to the most robust high-tech field-crop applied research and expertise for the defence-line against Cercospora eaf spot disease in sugar beet corops on soll structure and succeeding the fast lane to the most robust high-tech field-crop applied research and expertise for the defence-line against Cercospora leaf spot disease in sugar beet corops on soll structure and succeeding fight against Cercospora leaf spot disease in sugar beet corops on soll structure and succeeding fight against Cercospora leaf spot disease in sugar beet cercosporal eaf spot disease in sugar beet the crops on soll structure and succeeding fight against Cercospora leaf spot disease in sugar beet cercosporal eaf spot disease in sugar beet the crops on soll structure and succeeding fight against Cercospora leaf spot disease in sugar beet work of sead in the storm? Session 3 (DLF Beet Seed): A strategy for the long fight against Cercospora leaf spot disease in sugar beet were sugar beet with solidogides seed of send strain warieties at SESVanderHave): Breeding for SRR tolerant varieties at SESVander	11.20 am		9 20 am		2.00 nm	,
## PRIEDRICH KOPISCH-OBUCH (KWS): Strengthening the defence-line against Cercosporal applied research and expertise for the Belgian sugar beet sector 12.00 pm Lunch break **Session 2 'Optimising crop growth' (Chair: HERBERT EIGNER) 1.30 pm HEINZ-JOSEF KOCH (IfZ): Effects of different cover crops on soil structure and succeeding young sugar beet under contrasting N fertilization 1.50 pm GERNOT BONNER (BOKU Wien): Management options to improve drought resilience in sugar beet 2.10 pm Lucy TILLIER (Univ. of Nottingham): The impact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break **Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEN) 3.50 pm FRANÇOIS JOUDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets sugar beet of sugar beet of read association reveals the complex genetics of DMI fungicide resistance in sugar beet treatments for a sustainable use 11.20 am SIMORAM ROBIC (KWS): Strengthening the defence-line against Cercospora leaf spot disease in sugar beet leaf lise against Cercosporal elef Seed): A strategy for the long fight against Cercosporal elef spot disease in sugar beet sugars beet feet Seed): Gene regulatory networks in sugar beet seed): Gene regulatory networks in sugar beet defence responses to Aphanomyces cochlisiodes 4.00 pm ALISTAIR WRIGHT (BRO): Predicting the future – are traditional diagnostics necessary to fight Virus Yellows? 4.10 pm Poster session I and coffee break **Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEN) 3.50 pm FRANÇOIS OLIDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet defence responses to Aphanomyces cochlished sugar beet seed): SSPA intended of the sugar beet prevails and varieties at SESS or Strengthening to a subject the long fight against Cercospora beticodes 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments		solutions considering human health and	0.20 am	breeding – the fast lane to the most robust high-		Virus Yellows: was 2021 just a lull in the storm?
Belgian sugar beet sector 12.00 pm	11.40 am		8.35 am	FRIEDRICH KOPISCH-OBUCH (KWS): Strengthening the	3.20 pm	
Session 2 'Optimising crop growth' (Chair: Herbert Eigner) 1.30 pm Heinz-Josef Koch (ffz): Effects of different cover crops on soil structure and succeeding young sugar beet under contrasting N fertilization 1.50 pm Gernot Bodner (BOKU Wien): Management options to improve drought resilience in sugar beet 2.10 pm Lucy Tiller (Univ. of Nottingham): The impact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: Anne-KATRIN MAHLEIN) Session 3 'Advanced crop management' (Chair: Anne-KATRIN MAHLEIN) 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet bet to defence responses to Aphanomyces cochloides Indicate the fight against Cercospora leaf spot disease in sugar beet defence responses to value and succeeding for SRR tolerant varieties at SESVanderHave): Breeding for SRR	10 00	Belgian sugar beet sector	8.45 am	PER SNELL (DLF Beet Seed): A strategy for the long	3.40 pm	
Session 2 'Optimising crop growth' (Chair: HERBERT EIGNER) 1.30 pm HEINZ-JOSEF KOCH (IfZ): Effects of different cover crops on soil structure and succeeding young sugar beet under contrasting N fertilization 1.50 pm GERNOT BODNER (BOKU Wien): Management options to improve drought resilience in sugar beet to sugar beet under contrasting N place of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.10 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) ABEL BARRETO, FACUNDO ISPIZUA (ITZ): Assessments of relevant leaf diseases in sugar beets and sugar beets treatments for a sustainable use 1.50 pm ABEL BARRETO, FACUNDO ISPIZUA (ITZ): Assessments of relevant leaf diseases in sugar beotex and sugar beet control of a slow of the sugar beotex and sugar beet in complex (inclination) and sugar beet in sugar beet defence responses to Aphanomyce cochlidides NALENTINA ROSSI (DLF Beet Seed): Gene regulatory networks in sugar beet defence responses to Aphanomyce cochlidides NALENTINA ROSSI (DLF Beet Seed): Gene regulatory networks in sugar beet defence responses to Aphanomyce cochlidides NALISTAIR WRIGHT (BRRO): Predicting the future – are traditional diagnostics necessary to fight Virus Yellows? 4.10 pm AULITAIVEL (ITB): Reducing yield losses due to being vellow virus yield obsess due to support chemical control of aphids and Virus yellows in sugar beet with intercropping vellows in sugar beet with intercropping vellows in sugar beet with intercropping traditional diagnostics necessary to fight Virus Yellows? 4.10 pm AULITAIVEL (ITB): Reducing yield losses due to vellow vellows infected beets 4.30 pm AMÉLIE MONTEIRO (ITB): Evaluation of biocontrol products against Myzus persicae to prevent sugar beet vellows 5 pm End of day 2 4.50 pm Closing words, announcements 5	12.00 pm Lunch break					-
1.30 pm HEINZ-JOSEF KOCH (ITZ): Effects of different cover crops on soil structure and succeeding young sugar beet under contrasting N fertilization 1.50 pm GERNOT BODNER (BOKU Wien): Management options to improve drought resilience in sugar beet under contrasting N 1.50 pm Lucy Tiller (Univ. of Nottingham): The impact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) 3.50 pm RABL BARRETO, FACUNDO ISPIZUA (ITZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV Aphanomyces cochlicides Aphanomyces in SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave 9.20 am John Everiences with biological seed treatment indicate benefits in sugar beet growing DAVID EVLAND (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave 9.20 am John Everiences with biological seed treatment indicate benefits in sugar beet growing Poster session I and coffee break Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) Session 5 'Maintaining sugar beet health' (Chair: ELMA RAAIJMAKERS) 10.40 am Lindo FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Lindo FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Lindo FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Lindo FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Lindo FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Lindo FRIJTERS (IRS)		(Chair: HERBERT EIGNER)	8.55 am	VALENTINA ROSSI (DLF Beet Seed): Gene regulatory	3.50 pm	Virus Yellows resistance in sugar beet reveals
PIERRE LONGERSTAY (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave): Assessments of relevant leaf diseases in sugar beet under contrasting N fertilization 9.05 am PIERRE LONGERSTAY (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave): Assessments of relevant leaf diseases in sugar beet under contrasting N fertilization 9.05 am PIERRE LONGERSTAY (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave): Assessments of relevant leaf diseases in sugar beet under contrasting N fertilization 9.05 am PIERRE LONGERSTAY (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave): Breeding for SBR tolerant varieties at SesvarderHave): Breeding for SBR tolerant varieties at SesvarderHave): Breeding for SBR tolerant varieties at SesvarderHave varieties at SesvarderHave): Breeding for Standard for Standard for Standard for St	1.30 pm	HEINZ-JOSEF KOCH (IfZ): Effects of different			4.00 pm	
options to improve drought resilience in sugar beet 2.10 pm Lucy Tillier (Univ. of Nottingham): The impact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: Anne-Katrin Mahlein) 3.50 pm François Joudelat (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm ABEL BARRETO, FACUNDO Ispizua (IfZ): Assessments of relevant leaf diseases in sugar beet treatment indicate benefits in sugar beet growing big impact: experiences with biological seed treatment indicate benefits in sugar beet growing DAVID EYLAND (SESVanderHave): Mitigating drought impact through variety improvement 9.30 am DAVID EYLAND (SESVanderHave): Mitigating drought impact through variety improvement 9.40 am Poster session II and coffee break Session 5 'Maintaining sugar beet health' (Chair: ELMA RAAIJMAKERS) 10.40 am LINDA FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am MELVIN D. BOLTON (USDA-ARS): Genome-wide association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.20 am SIMON BOWEN (BBRO): Development of a		ing young sugar beet under contrasting N	9.05 am	PIERRE LONGERSTAY (SESVanderHave): Breeding for SBR tolerant varieties at SESVanderHave	•	traditional diagnostics necessary to fight Virus
2.10 pm Lucy Tillier (Univ. of Nottingham): The impact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: Anne-Katrin Mahlein) 3.50 pm François Joudelat (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm Abel Barreto, Facundo Ispizua (IfZ): assessments of relevant leaf diseases in sugar beet treatment indicate benefits in sugar beet treatment indicate benefits in sugar beet treatment indicate benefits in sugar beet growing 9.30 am David Eylando (SESVanderHave): Mitigating drought impact through variety improvement 9.40 am Poster session II and coffee break Session 5 'Maintaining sugar beet health' (Chair: ELMA RAAIJMAKERS) 10.40 am Linda Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am Mellind David Frijters (IRS): Efficacy and necessity of Seed treatments for a sustainable use 11.00 am Mellind Prijters (IRS): Efficacy and necessity of Seed treatments for a sustainable use 11.00 am Mellind Prijters (IRS): Efficacy and necessity of Seed treatments for a sustainable use 11.00 am Mellind Prijters (IRS): Evolution of biocontrol products against Myzus persicae to prevent sugar beet yellows 12.50 pm Christian Horston (ITB): Evaluation of biocontrol products against Myzus persicae to prevent sugar beet yellows 12.50 pm Christian Horston (ITB): Evaluation of biocontrol products against Myzus persicae to prevent sug	1.50 pm		9.20 am	big impact: experiences with biological seed	4.10 pm	Paul Tauvel (ITB): Reducing yield losses due to Yellow Viruses with intercropping
pact of canopy architecture on radiation use efficiency and yield potential of sugar beet 2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) 3.50 pm FRANÇOIS JOUDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV mature impact through variety improvement yellows in sugar beet yellows Poster session II and coffee break Session 5 'Maintaining sugar beet health' (Chair: ELMA RAAJJMAKERS) 10.40 am LINDA FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am MELVIN D. BOLTON (USDA-ARS): Genome-wide association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.20 am SIMON BOWEN (BBRO): Development of a		sugar beet	0.00		4.20 pm	
2.30 pm Poster session I and coffee break Session 3 'Advanced crop management' (Chair: Anne-Katrin Mahlein) Session 5 'Maintaining sugar beet health' (Chair: Elma Raaijmakers) 10.40 am Linda Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 4.10 pm Abel Barreto, Facundo Ispizua (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV Session 5 'Maintaining sugar beet health' (Chair: Elma Raaijmakers) 10.40 am Linda Frijters (IRS): Efficacy and necessity of seed treatments for a sustainable use 4.40 pm Christa Hoffmann (IfZ): Storability of Virus Yellows-infected beets 4.50 pm Closing words, announcements 5 pm End of day 2 11.20 am Simon Bowen (BBRO): Development of a	2.10 pm	pact of canopy architecture on radiation use	9.30 am	impact through variety improvement		Yellows in sugar beet
Session 3 'Advanced crop management' (Chair: Anne-Katrin Mahlein) 3.50 pm FRANÇOIS JOUDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm ABEL Barreto, Facundo Ispizua (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV Session 5 'Maintaining sugar beet health' (Chair: ELMA RAAIJMAKERS) 10.40 am LINDA FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 4.50 pm Closing words, announcements 5 pm End of day 2 11.20 am Simon Bowen (BBRO): Development of a		• • •	9.40 am	Poster session II and coffee break	4.30 pm	
Session 3 'Advanced crop management' (Chair: ANNE-KATRIN MAHLEIN) 3.50 pm FRANÇOIS JOUDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV (Chair: ELMA RAAIJMAKERS) 10.40 am LINDA FRIJTERS (IRS): Efficacy and necessity of seed treatments for a sustainable use 11.00 am MELVIN D. BOLTON (USDA-ARS): Genome-wide association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.20 am SIMON BOWEN (BBRO): Development of a	2.30 pm Poster session I and coffee break		Session 5 'Maintaining sugar beet health'			beet yellows
3.50 pm FRANÇOIS JOUDELAT (ITB): LITERAL – a light but extensive phenotyping tool for beets 4.50 pm Closing words, announcements 5 pm End of day 2 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV 11.20 am Simon Bowen (BBRO): Development of a	Session	3 'Advanced crop management'		(Chair: Elma Raaijmakers)	4.40 pm	
but extensive phenotyping tool for beets 4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): Assessments of relevant leaf diseases in sugar beet variety trials by multispectral UAV 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 12.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 12.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola 11.00 am MELVIN D. Bolton (USDA-ARS): Genome-wide 15.00 association reveals the complex genetics of DMI fungicide resistance in Cercospora beticola		,	10.40 am		4.50	
4.10 pm ABEL BARRETO, FACUNDO ISPIZUA (IfZ): association reveals the complex genetics of DMI Assessments of relevant leaf diseases in fungicide resistance in Cercospora beticola sugar beet variety trials by multispectral UAV 11.20 am SIMON BOWEN (BBRO): Development of a	3.50 pm		11.00 am	MELVIN D. BOLTON (USDA-ARS): Genome-wide	•	
sugar beet variety trials by multispectral UAV 11.20 am SIMON BOWEN (BBRO): Development of a	4.10 pm				-	·
		sugar beet variety trials by multispectral UAV	11.20 am			