

- 8.45 h MARK VARRELMANN (IfZ): Development of strategies for the control of *Chenopodium album* biotypes with reduced metamitron sensitivity in different European countries
- 8.55 h FRIEDRICH KEMPL (ZFT): Sensitivity and resistance of *Cercospora beticola* to different fungicides
- 9.05 h FRANCO CIONI (BETA): New strategies in CLS control in Italy and Austria
- 9.15 h MARK STEVENS (BBRO): Optimising UK fungicide strategy to maximise disease control, green leaf retention and yield performance
- 9.25 h Discussion

**6 Poster session & Coffee break (9.40 - 10.40 h)**

**7 Open session (continued)**

Chairman: Frans Tijink (IRS)

- 10.40 h ANNA JACOBS (IfZ): The sugar beet as an energy crop in crop rotations on highly productive sites – an agronomic/economic system analysis
- 11.00 h STEPHEN KAFFKA (UC Davis): Advanced technology and modeling support biofuel production from beets in California
- 11.20 h ROBERT OLSSON (NBR): Long-term storage of sugar beet in North-West Europe
- 11.40 h JURGEN MAASSEN (IRS), PAUL BEE (British Sugar/BBRO): Mobile information provision including 'Apps' to enable 'on the spot' decision making

12.00 h *Lunch* (served in the hotel)

**8 Closing session**

Chairman: Frans Tijink (IRS)

- 13.30 h MATTHIAS SAUER (Suiker Unie): Future needs for sugar beet cultivation – challenges for science
- 14.00 h BERNWARD MÄRLÄNDER (IfZ): Sustainable intensification – sugar beet cultivation as a case study
- 14.30 h Joachim RUKWIED (DBV): Social acceptance – a new production factor in agriculture
- 15.00 h End of congress

**Venue**

The 74<sup>th</sup> IIRB Congress will take place at the Hotel Westin Bellevue Dresden.  
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# Programme

## 1<sup>st</sup> July 2014

- 8.30 h IIRB General Assembly  
9.20 h Presidential address –  
HANS-JÖRG GEBHARD

### 1 Opening session

Chairman: Hans-Jörg Gebhard (IIRB)

- 9.30 h AXEL AUMÜLLER (VdZ): The German beet sugar industry sector  
9.50 h HELMUT BLECKWENN (ADR): Sugar beet growing in Germany  
10.10 h BOTHO VON SCHWARZKOPF (P&L): Knowledge transfer into practice – sugar beet aspects  
10.30 h *Coffee break*

### Networking – Science in action

- 11.00 h THOMAS KIRCHBERG (Südzucker): Science in action – the sugar beet research network  
11.20 h ELKE PAWELZIK (University Göttingen): Public Private Partnership – a driving force for a sustainable development  
11.40 h GEORG F. BACKHAUS (JKI): Science for bio-based economy and sustainable intensification – JKI and its tasks  
12.00 h MAGDA-VIOLA HANKE (JKI): Apple meets sugarbeet: sweet, resistant and productive – a challenge for breeding  
12.20 h *Lunch* (served in the hotel)

### Sugar beet & other sweet crops – Breeding research at Pillnitz

- 13.45 h Bus departure to Pillnitz  
14.30 h Visit of greenhouse and trial sites of the JKI, Institute for Breeding Research on Fruit Crops  
17.00 h Reception at Pillnitz castle  
18.00 h Return to Dresden with steam boat  
19.45 h Arrival at the hotel, free evening

## 2<sup>nd</sup> July 2014

### 2 Open session

Chairman: Mark Stevens (BBRO)

- 8.00 h MICHAEL METZGER (Minn-Dak Farmers Coop.): Characterisation of a new bacterial disease of sugar beet in the Red River Valley production area of North Dakota and Minnesota, USA  
8.20 h BRAM HANSE (IRS): Stemphylium, a new foliar disease in sugar beet  
8.40 h HEINZ-JOSEF KOCH (IfZ): N use efficiency of current sugar beet cultivars in northwestern Europe  
9.00 h RÉMY DUVAL (ITB): Phosphorus and potassium fertilisation of sugar beet parcels in France – current practices and evolutions analysed through results of an ITB survey  
9.20 h SVEN FISCHER (BGD-Bodengesundheitsdienst): Influence of lime on the EUF extractable nutrients in the soil and yield and quality of sugar beets

### 3 Poster session and Coffee break (9.40 - 11.20 h)

### 4 Breeding and soil-borne diseases

Mini-seminar, chairman: Bernward Märländer (IfZ)

- 11.20 h Introduction  
11.35 h BRUNO DESPREZ (SAS Florimond Desprez): French research initiative for a sustainable beet improvement: innovative breeding strategies based on allelic variation mining, and novel genomic and phenomic tools  
11.45 h SÉBASTIEN CHATRE (Syngenta): Integrated crop solutions against *Rhizoctonia solani* in sugar beet  
11.55 h VIVIANA RIVERA (NDSU): Characterization of *Fusarium secorum*, a new species causing Fusarium yellowing decline of sugar beet in north central USA  
12.05 h KATHRIN BORNEMANN (USDA ARS): Occurrence of resistance-breaking strains of *Beet necrotic yellow vein virus* in sugar beet in Northern Europe and the identification of a new variant of the viral pathogenicity factor P25

- 12.15 h CLAUDE BRAGARD (UCL): Rhizomania intra- and inter-field diversity in France – implication for the disease management  
12.25 h CHRISTIAN LANG (Verb. Hess.-Pfälz. Zuckerrübenanbauer): Population dynamics of sugar beet cyst nematodes in topsoil and subsoil given different environments and varieties in Southwest Germany  
12.35 h MARC RICHARD-MOLARD (ITB): Resistance sustainability in the *Heterodera schachtii* sugar beet complex  
12.45 h Discussion  
13.00 h *Lunch* (served in the hotel)

### From farm to 1,600 ha cooperative – historic changes in East German agriculture

- 14.45 h Bus departure  
15.30 h Welcome at the farm, presentation and visit of the Agro-cooperative Burkhardswalde, field visit  
18.00 h Return to the hotel  
19.30 h City walk  
20.00 h Congress dinner

## 3<sup>rd</sup> July 2014

### 5 Control of weeds and leaf diseases

Mini-seminar, chairman: Marc Richard-Molard (ITB)

- 8.00 h Introduction  
8.05 h MIKE MAY (MIKE MAY consulting): Recent and potential future sugar beet weed control problems in Europe  
8.15 h OTTO NIELSEN (NBR): Integrated weed control in sugar beets in strip tilled and ploughed cropping systems  
8.25 h EMILIEN QUILLIOT (ITB): How is it possible to reduce TFI herbicide on sugar beet?  
8.35 h MARTIN WEGENER (Bayer CropScience): The use of Foramsulfuron + Thiencarbazone-methyl in ALS tolerant sugar beets – an innovative system of weed control in sugar beets