8.45 h  MARK VARRELDMANN (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 MARLANDER (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
Programme

1st 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 PAWE LZIK (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

2nd 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 (IIZ)
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 SEBASTIEN 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

3rd 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 EMILIE 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
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