

SESSION 8

CLOSING SESSION – SESSION DE CLÔTURE – SCHLUSSSITZUNG

MATTHIAS SAUER

Suiker Unie GmbH & Co. KG, P.O. Box 1261, D – 17382 Anklam

FUTURE NEEDS FOR SUGAR BEET CULTIVATION – CHALLENGES FOR SCIENCE

**Exigences futures à la culture de betteraves sucrières – un défi à la recherche /
Zukünftige Anforderungen an den Zuckerrübenanbau – eine Herausforderung
für die Wissenschaft**

ABSTRACT

- Foreword: Background and scope – The intention of this presentation is to introduce the agenda for sugar beet research in the future.
- Introduction: The unbeatable beet – inspiration and motivation – The beet will continue to be part of human nutrition, and is also exceptionally suited for the bio-based economy.
 1. Statement: From beet growing to integrated beet farming – Main driver will be commercial aspects, and also contribution to biodiversity and a high factor income.
 2. Statement: Better growth environment by adaptation to Climate Change – Managing climate change is about managing the risks of extreme events and about managing chances.
 3. Statement: Breeding is important but needs orientation – Continuous increase of sugar yield and combination of desired plant traits by new breeding methods.
 4. Statement: Farming technique to get the anchor role – Cropping technique that covers all elements of the cultivation, i.e. soil management, plant protection, fertilization and technical equipment.
 5. Statement: Plant protection faces the biggest challenge – Plant health care and plant protection based on an integrated, systematic approach that is centered around the cropping system as a whole.
 6. Statement: Integration of information and production technology to “Smart farming” – Agriculture needs to develop a concept that links new information technology with practical management decision process.
 7. Statement: Progress of beet growing dependent on a scientific-based network – Joint research projects, also with institutions from other parts of the society will become standard.
- Final remarks: Turning challenges into knowledge and transferring knowledge into acceptance – Beet growers and sugar industry have to develop their own CSR strategy (Corporate Social Responsibility).