



THE 7TH GLOBAL FORUM OF LEADERS FOR AGRICULTURAL SCIENCE
AND TECHNOLOGY



THE 7TH GLOBAL FORUM OF LEADERS FOR AGRICULTURAL SCIENCE
AND TECHNOLOGY

02

Side Events

SCIENCE AND TECHNOLOGY LEADING THE TRANSFORMATION
OF GLOBAL AGRI-FOOD SYSTEMS



Oct 27, 2023

10:45-12:15

Side Event 1: Monitoring and Control of Transboundary Crop Pests Venue: VIP Room 1, Level 3M

Chair: Prof. Mark McNeill, New Zealand Crown Research Institutes-AgResearch
Prof. Xueping ZHOU, Institute of Plant Protection, Chinese Academy of Agricultural Sciences

10:45 - 11:00

Dr. Xueping ZHOU

Institute of Plant Protection, Chinese Academy of Agricultural Sciences
Topic: Transboundary crop pests: monitoring and control

11:00-11:15

Dr. Md Tofazzal Islam

Bangabandhu Sheikh Mujibur Rahman Agricultural University
Topic: Omics approaches for tackling wheat blast disease in Bangladesh

11:15-11:30

Dr. Mark McNeill

New Zealand Crown Research Institutes-AgResearch
Topic: Protecting New Zealand's borders from invasive pests and diseases: research to improve biosecurity outcomes

11:30-11:45

Dr. Frederic Francis

University of Liege
Topic: Multiple approaches to control fall armyworm enhancing diverse biological agents

11:45-12:00

Dr. Aidong CHEN

Agricultural Environment and Resources Institute, Yunnan Academy of Agricultural Sciences
Topic: Occurrence characteristics and control of the fall armyworm in the maize fields of Yunnan, China

12:00-12:15

Discussion

Oct 27, 2023

10:45—12:30

Side Event 2: Acquisition Technology of Farmland Key Parameters in Smart Agriculture Venue: Multi-functional Hall 2, Level 1M

Chair: Yu Qiangyi, Associate Researcher, IARRP, CAAS

10:45 - 11:00

Dr. Zhanli SUN

Leibniz Institute for Agricultural Development in Transition Economies (IAMO)
Topic: The adoption of digitalization technologies among small holder farmers: status and challenges

11:00-11:15

Prof. Bedir Tekinerdogan

Wageningen University and Research

Dr. Xiuliang JIN

Institute of Crop Science of CAAS
Topic: A System of Systems Approach for Precision Agriculture

11:15-11:30

Dr. Seishi Ninomiya

University of Tokyo
Topic: Plant Phenomics: Emerging Transdisciplinary Science

11:30-11:45

Dr. Wei GUO

University of Tokyo
Topic: IOT, Robotics and AI techniques in plant phenomics

11:45-12:00

Dr. Yue DOU

University of Twente
Topic: Smart geo-spatial solutions to build resilient agri-food systems

12:00-12:30

Discussion



Oct 27, 2023

10:45—12:15

Side Event 3: The Safe and Value-added Utilization of Animal Manure and Mitigation of Gas Emissions Venue: Multi-functional Hall 4, Level 1M

10:45 - 11:00

Prof. Hongmin DONG

Institute of Environment and Sustainable Development in Agriculture,
Chinese Academy of Agricultural Sciences
Topic: The safe and value-added utilization of animal manure and
mitigation of gas emissions

11:00-11:15

Prof. David Robert Chadwick

Bangor University
Topic: Towards low carbon livestock: challenges and solutions

11:15-11:30

Dr. Tran Thi Bich Ngoc

National Institute of Animal Science, Vietnam
Topic: Greenhouse gas mitigation measures in livestock sector in Vietnam

11:30-11:45

Prof. Roland BOL

Bangor University
Topic: Organic amendments for soil carbon management

11:45-12:15

Discussion

Oct 27, 2023

14:00-16:20

Side Event 4: Discussions on G2P Venue: VIP Room 1, Level 3M

Chair: Prof. Luxiang LIU

Assistant Chief Scientist of G2P project/Executive Director General of Institute of Crop Sciences,
Chinese Academy of Agricultural Sciences, ICS-CAAS

14:00-14:20

Registration

14:20-14:50

Opening remarks Self-introduction of participants

14:50-15:00

Prof. Luxiang LIU

Assistant Chief Scientist of G2P project / Executive Director, ICS-CAAS
Topic: G2P Project Progress Report for Preparatory Phase

15:00-15:10

Dr. B.M. Prasanna

Director, Global Maize Program, International Maize and Wheat Improvement
Center (CIMMYT)
Topic: From the Genomes to Phenomes to Improved Seed: Experiences of
CIMMYT Global Maize Program

15:10-15:20

Dr. Steve Swain

Acting Deputy Director, Science, Commonwealth Scientific and Industrial
Research Organization (CSIRO)
Topic: Wheat Functional Genomics at CSIRO

15:20-15:30

Dr. Yutong QIU

Business Development Manager (China), Plant Sciences Group, Wageningen
University & Research (WUR)
Topic: Genotyping to phenotyping empowers future-proof food production

15:30-15:40

Dr. Philip Kear

Chief Scientist, China Center for Asia Pacific, International Potato Center (CIP)
Topic: Unlocking Potato Potential: Genotype to Phenotype Insights at the
International Potato Center (CIP) and Future Research Horizons

15:40-15:50

Dr. Nils Stein

Head of Department Genebank, Leibniz Institute of Plant Genetics and Crop
Plant Research (IPK) & Director of Federal ex situ Genebank of Germany
Topic: Genebank Genomics to Unlock Global Crop Biodiversity

15:50-16:00

Dr. Per Stålnacke

Director of Research, Norwegian Institute of Bioeconomy Research (NIBIO)
Topic: Phenotyping a prerequisite for increased global food security exam-
ples from Norway

16:00-16:20

General Discussions Conclusion



Oct 27, 2023

14:00-16:30

Side Event 5: Seminar on Rural Development
Venue: Multi-functional Hall 1, Level 1M

Session I: Institutional and technological innovations in rural development
Chair: Prof. SI Wei, China Agricultural University (CAU)

14:00-14:30

Registration

14:30-14:45

Dr. ZHANG Yu

Associate Professor, Institute of Agricultural Economics and Development, Chinese Academy of Agricultural Sciences (IAED)

14:45-15:00

Dr. SUN Zhanli

Researcher, Leibniz Institute of Agricultural Development in Transition Economies (IAMO)

15:00-15:15

Prof. LI Xin

School of Economics and Management, Hainan Normal University

15:15-15:30

Q&A

Session II: Improving global arable farming: agri benchmark delivers production system data and growers perspectives
Chair: Dr. CHEN Jiang, President of School of Economics and Management, Hainan Normal University

15:40-15:50

Dr. Yelto Zimmer

Managing Director, Agri benchmark Cash Crop c/o Thünen Institute of Farm Economics

15:50-16:00

Dr. Tim Njagi

Research Fellow, Tegemeo Institute of Agricultural Policy and Development, Egerton University

16:00-16:10

Dr. HE Ke

Director, Laboratory for Green Low-Carbon Agricultural Development, Huazhong Agricultural University

16:10-16:30

Q&A

Oct 27, 2023

14:00-17:40

Side Event 6: Delivering the Power of Hybrid Breeding to Smallholder Farmers Growing Potato and Sweet Potato
Venue: Multi-functional Hall 3, Level 1M

Chair: Mr. Jianmin XIE, Director of International Potato Center (CIP)-China Center for Asia Pacific (CCCAP)

14:00-14:30

Registration

14:30-14:50

Opening Ceremony

1. Opening Remarks by leader of CAAS (TBC)
2. Opening Remarks by Dr. Simon Heck, Director General of CIP

14:50-15:00

Dr. Simon Heck

Director General of CIP

Topic: The significance and promotion path of significant breakthroughs in sweet potato hybrid breeding technology for improving small-scale farmers' productivity and global food security

15:00-15:20

Dr. Telesphore Ndabamenye

Director General of Rwanda Agricultural and Animal Resources Development Board (RAB)

Topic: Current situation and bottlenecks of potato breeding and Industry development in African Countries

15:20-15:45

Dr. Sunil Chaudhari

Associate Research of Potato Breeding and Product Development of CIP
Topic: Potato research and production in South and Southeast Asia, and opportunities with hybrid potato technology

15:45-16:10

Dr. Sanwen HUANG

President of Chinese Academy of Tropical Agricultural Sciences (CATAS)/Chief Scientist of the Hybrid Potato Team at AGIS, CAAS

Topic: The development history of diploid hybrid potato technology in China

16:10-16:20

Dr. Philip Kear

National Liaison Scientist of CIP

Topic: Launch the "Global Hybrid Potato Alliance" Initiative
Tea-break and group photo

16:20-16:40

Tea-break and group photo

16:40-17:30

Discussion

17:30-17:40

Closing remarks

Dr. Sanwen HUANG, President of CATAS
Dr. Simon Heck, Director General of CIP