12th Asian Maize Conference and Expert Consultation on "Maize for Food, Feed, Nutrition and Environmental Security"

Rama Gardens Hotel, Bangkok, Thailand 30 October – 1 November, 2014

TENTATIVE PROGRAM

Day 1: 30 October, 2014

08:45 – 10:00 Opening Session

- 10:00 10:30 Group Photograph & Tea/Coffee break
- 10:30 11:40 Plenary Session 1
- Co-Chairs: Nick Austin (ACIAR, Australia) Thomas Lumpkin (CIMMYT)

Keynote Lectures:

10:30 – 10:55	Global maize R4D scenario: Challenges and opportunities in Asia – BM Prasanna (CIMMYT)
10:55 – 11:20	Maize in Asia: Drivers of change – Subash Dasgupta (FAO RAP)
11:20 - 11:40	General discussion and concluding remarks by Co-Chairs

11:40 – 13:00 Plenary Session 2

Panel Discussion: "Doubling Asia's maize production in the next decade"

Moderator: Raj Paroda (APAARI)

Panelists:

- 1. Iftikhar Ahmad (PARC, Pakistan)
- 2. Edwin C. Villar (PCAARRD, Philippines)
- 3. Xinhai Li (CAAS, China)
- 4. BS Dhillon (PAU, India)
- 5. Dil Bahadur Gurung (NARC, Nepal)
- 6. Marianne Banziger (CIMMYT, Mexico)

13:00 – 14:00 Lunch break

14:00 – 16:00 Parallel Technical Sessions

Technical Session 1: Enhancing genetic gains in maize breeding

Co-Chairs: Swapan K. Datta (ICAR, India) Suwit Chaikeattiyod (DOA, Thailand)

Keynote Lectures:

14:00 - 14:25	Advances in maize crop improvement: Monsanto pipeline – Mike Graham (Monsanto, USA)
14:25 – 14:50	Genetic gains in maize breeding in China: Experience and lessons – Shihuang Zhang (CAAS, China)
Speakers:	
14:50 – 15:10	High throughput and precision phenotyping for improving abiotic stress resilience of maize – Jose Luis Araus (Univ. of Barcelona, Spain)
15:10 - 15:30	Strategies for germplasm enhancement of maize – Walter Trevisan (GEM Program, USA)
15:30 – 15:50	Seeds of Discovery: Characterizing and utilizing maize genetic resources for germplasm diversification – Kevin Pixley (CIMMYT, Mexico)

15:50 – 16:00 General discussion and concluding remarks by Co-Chairs

Technical Session 2: Maize for fodder/feed, specialty corn, value-addition and processing

Co-Chairs: Eskandar Zand (AREEO, Iran) Sergie Bang (NARI, PNG)

Keynote Lecture:

14:00 – 14:25 Maize for feed and fodder security in Asian Countries, with special reference to India – A.K. Srivastava (NDRI, India)

Speakers:

- 14:25 14:45 The rapid growth of the poultry industry in Asia: Implications for research and development Christian Boeber (CIMMYT, India)
- 14:45 15:05 The fodder value of maize stover vis-à-vis other cereals residues and opportunities for improvement through crop breeding and value addition Michael Blummel (ILRI)

15:05 – 15:20	Breeding purple waxy corn for health and wellbeing – Kamol Lertart (KKU, Thailand)
15:20 – 15:35	Development and commercialization of value-added food products of Quality Protein Maize for nutrition security – Usha Singh (RAU, India)
15:35 – 15:50	Effect of extrusion technology on texture properties of corn starch – Jingsheng Liu (JAU, China)
15:50 – 16:00	General discussion and concluding remarks by Co-Chairs

16:00 – 16:30 Tea/Coffee break

16:30 – 18:15 Parallel Technical Sessions

Technical Session 3: Stress resilient maize for Asia

Co-Chairs:	Ropate Ligairi (DoA, Fiji)
	Md Rafiqul Islam Mondal (BARI, Bangladesh)

Keynote Lecture:

16:30 – 16:55	Abiotic stress resilient maize for adaptation to climate change in the Asian
	tropics – PH Zaidi (CIMMYT, India)

Speakers:

16:55 – 17:10	Multi-trait selection index for excess water tolerance in maize at seedling stage – M Shalim Uddin (BARI, Bangladesh)
17:10 – 17:25	Understanding of <i>Curvularia lunata</i> pathogenicity differentiation induced by resistance varieties – Jie Chen (SJU, China)
17:25 – 17:40	Effect of Maize Dwarf Mosaic inoculating at various growth stages on yield of Nakhon Sawan 3 – Siwilai Lapbanjob (NSFCRC, Thailand)
17:40 – 17:55	Temporal variation of stem borer damage in maize at Chitwan, Nepal – Buddhi B Achhami (NMRP, Nepal)
17:55 – 18:10	Genetic analyses of resistance to stored grain weevil (<i>Sitophilus oryzae</i> L.) in maize – Rajkumar Zunjare (IARI, India)
18:10 - 18:15	General discussion and concluding remarks by Co-Chairs

Technical Session 4: Socioeconomics and innovative policies for enhanced maize production and impacts

Co-Chairs: Raghunath Ghodake (NARI, PNG) Prabath Wimal Kumara (SLCARP, Sri Lanka)

Keynote Lecture:

16:30 – 16:55 Policy frameworks for effective innovation, dissemination and adoption of maize technologies in Asia – Katinka Weinberger (CAPSA, Indonesia)

Speakers:

16:55 – 17:15	Scaling maize innovations in a changing Asia – Olaf Erenstein (CIMMYT)
17:15 – 17:35	Assessments of the maize situation, outlook and investment opportunities in Asia – K Srinivas (NAARM, India)
17:35 – 17:50	Competitiveness of maize production in Pakistan – Hassnain Shah (NARC, Pakistan)
17:50 - 18:05	Maize production in Bangladesh: way towards self-sufficiency – Monayam Miah (BARI, Bangladesh)
18:05 – 18:15	General discussion and concluding remarks by Co-Chairs

18:15 – 19:00 Poster Session

(Posters accepted under Technical Sessions shall be displayed all through the day for review by delegates, as well as for evaluation by a panel)

19:00 Dinner hosted by FAO

Day 2: 31 October 2014

08:30 – 09:30 Plenary Session 3

Co-Chairs: William Dar (ICRISAT) Simon Hearn (APAARI)

Keynote Lectures:

- 08:30 08:55 Present and potential impacts of changing climate on maize-based cropping systems in Asia: Strategies for adaptation Clare Stirling (CIMMYT-CCAFS)
- 08:55 09:20 Maize marketing in Asia: Innovations and reforms for improving efficiency Ramesh Chand (NCAP, India)
- 09:20 09:30 General discussion and remarks by Co-Chairs
- *09:30 09:45 Tea/Coffee break*
- 09:45 12:00 Parallel Technical Sessions

Technical Session 5: Biotechnology for maize improvement in Asia

Co-Chairs: Sharif Haron (MARDI, Malaysia) HS Gupta (BISA, India)

Keynote Lecture:

09:45 – 10:10 Insect-resistant and herbicide-tolerant GM maize in Philippines: present status and prospects – Randy A. Hautea (ISAAA, SE Asia)

Speakers:

10:10 - 10:30	Developing resilient maize for Asia against biotic and abiotic stresses – Jan Samson (DuPont Pioneer)
10:30 – 10:50	Molecular marker-assisted breeding for tropical maize improvement – Raman Babu (CIMMYT, India)
10:50 - 11:05	Genome-wide analysis of phosphate transporter gene family in maize – Lijuan Yu (YAAS, China)
11:05 – 11:20	Deciphering genomic regions associated with waterlogging and drought tolerance traits in tropical maize using multiple connected populations – Dung Do Van (NMRI, Vietnam)
11:20 - 11:35	Genome-wide association study of resistance to rough dwarf disease in maize – Jianfeng Weng (CAAS, China)
11:35 – 11:50	Enrichment of kernel β-carotene in maize hybrids using marker-assisted backcross breeding strategy – Vignesh M (IARI, India)
11:50 – 12:00	General discussion and concluding remarks by Co-Chairs

Technical Session 6: Strengthening maize seed systems in Asia

Co-Chairs: Kevin Gallagher (FAO RAP) NN Singh (TAAS, India)

Keynote Lecture:

09:45 – 10:10 Innovation, competition, and industry performance: better metrics for measuring the growth of Asia's maize seed system – David Spielman (IFPRI)

Speakers:

- 10:10 10:30 Strengthening the maize seed sector in marginal markets in Asia Ian Barker (SFSA)
- 10:30 10:50 International Maize Improvement Consortium (IMIC) in Asia: Partnership with seed companies for client-oriented product development and delivery AR Sadananda & BS Vivek (CIMMYT, India)
- 10:50 11:10 Strengthening the local seed systems and disadvantaged communities:
 Success and evolution of the first community-managed seed production
 company in the hills of Nepal DB Bhandari (Hariyali Seed Cooperative Ltd., Nepal)
- 11:10 11:30 Maize seed village: A self-reliance production for Thai farmers Chutima Koshawatana (FRECRI, Thailand)
- 11:30 12:00 General discussion and concluding remarks by Co-Chairs

12:00 – 13:00 Plenary Session 4

Panel Discussion: "Ensuring a vibrant maize seed sector in Asia through publicprivate partnerships"

Moderator: Marianne Banziger (CIMMYT)

Panelists:

- 1. Marco Ferroni (SFSA)
- 2. Arvind Kapur (Rasi Seeds, India)
- 3. Bijendra Pal (Bioseed)
- 4. Shilpa Divekar Nirula (Monsanto)
- 5. Fan Xingming (YAAS, China)
- 6. John McMurdy (USAID)

13:00 – 14:00 Lunch break

14:00 – 16:30 Parallel Technical Sessions

Technical Session 7: Regional Assessment of Maize in South Asia and the Oceania: Country Reports

Co-Chairs:	Quasim Obaidi (ARIA, Afghanistan) Bhag Mal (APAARI)
14:00 - 14:20	Bangladesh – Md. Abu Alam Mondal (BARI)
14:20 - 14:40	Bhutan – Dorji Wangchuk & Tirtha Katwal (RNR-RDC)
14:40 - 15:00	India – OP Yadav (DMR-ICAR)
15:00 - 15:20	Nepal – KB Koirala (NMRP-NARC)
15:20 - 15:40	Pakistan – Mian Md. Shafique (MMRI)
15:40 - 16:00	Sri Lanka – WMW Weerakoon (FCRDI)
16:00 - 16:20	Papua New Guinea – Julie Sip (NARI)
16:20 - 16:30	General discussion and concluding remarks by Co-Chairs

Technical Session 8: Regional Assessment of Maize in East Asia, South East Asia and West Asia: Country Reports

Co-Chairs:	Xinhai Li (CAAS, China) David Watson (MAIZE CRP)
14:00 - 14:20 14:20 - 14:40 14:40 - 15:00 15:00 - 15:20 15:20 - 15:40 15:40 - 16:00 16:00 - 16:20 16:20 - 16:40	China – Mingshun Li (CAAS) Indonesia – Taufik Ratulle & Muhammad Azrai (ICERI) Philippines – Roger V. Navarro (PhilMaize) Thailand – Pichet Grudloyma (NSFCRC) Vietnam – Mai Xuan Trieu (NMRI) Myanmar – Thant Lwin Oo (DAR) Iran – Rajab Choukan (SPII) Turkey – Rahime Cengiz (MRS)
16:40 - 16:50	Discussion and concluding remarks by Co-Chairs

16:50 – 17:15 Tea/Coffee break

17:15 – 18:15 Plenary Session 5

Interface with Farmers and Entrepreneurs on Opportunities for Enhanced Maize Production and Utilization in Asia

Moderator: Mark Holderness (GFAR)

Panelists:

- 1. Esther Penunia (AFA, Philippines)
- 2. Ambika Pandey (Hariyali Seed Cooperative Ltd., Nepal)
- 3. Md. Abdul Mazid (BRAC, Bangladesh)
- 4. Yash Sahrawat (YPARD, India)
- 5. Baldev Singh (AIAMMA, India)
- 6. Taweesak Pulam (Sweet Seeds Co. Ltd., Thailand)

18:15 – 19:00 Poster Session

(Posters accepted under Technical Sessions shall be displayed all through the day for review by delegates, as well as for evaluation by a panel)

19:00 Dinner hosted by DOA, Thailand

Day 3: 1 November 2014

08:30 – 10:30 Parallel Technical Sessions

Technical Session 9: Precision-conservation agriculture for enhanced input use efficiency

Co-Chairs: Alok K. Sikka (ICAR, India) Tien-Jung Yu (COA, Chinese Taipei)

Keynote Lecture:

08:30 - 08:55	Conservation agriculture based management for sustainable maize systems:
	Learnings from South Asia – ML Jat (CIMMYT, India)

Speakers:

08:55 – 09:15	Precision nutrient management in smallholder maize systems: recent advances – Kaushik Majumdar (IPNI, South Asia)
09:15 – 09:35	Sustainable intensification of maize-based systems: Lessons from SIMLESA – Mulugetta Mekuria (CIMMYT, Zimbabwe)
09:35 – 09:50	Performance of a precision planter with row cleaners and depth control units for no-till sowing of maize – Dongxing Zhang (CAU, China)
09:50 – 10:05	Sustainable intensification of cereal based cropping systems of north-western IGP for a food secure future in India – Hanuman Singh Jat (CIMMYT, India)
10:05 - 10:20	Influence of soil compaction stress on root endogenous hormone and protective enzyme activities in maize – Chaohai Li (HAU, China)
10:20 - 10:30	General discussion and concluding remarks by Co-Chairs

Technical Session 10: Enhancing nutritional quality of maize

Co-Chairs: Kevin Pixley (CIMMYT) Sain Dass (IMDA, India)

Keynote Lecture:

08:30 – 08:55 Development of biofortified maize in southern China – Fan Xingming (YAAS, China)

Speakers:

08:55 – 09:15	Provitamin A enrichment in maize – Willy Suwarno (BAU, Indonesia)
09:35 – 09:50	Biofortification potential of QPM and normal maize for major micronutrients – Dharam Pal Chaudhary (DMR, India)
09.50 - 10.05	Evaluation of colored wayy corn germplasm for high anthocyanin

09:50 – 10:05 Evaluation of colored waxy corn germplasm for high anthocyanin concentration and antioxidant capacity – Harakotr B (KKU, Thailand)

- 10:05 10:20 Effect of locations and varieties on yield, phytochemicals and antioxidant activity in corn silk Sarepoua E (KKU, Thailand)
- 10:20 10:30 General discussion and concluding remarks by Co-Chairs
- 10:30 11:00 Tea/Coffee break

11:00 – 13:00 Parallel Technical Sessions

Technical Session 11: Adapting maize production practices to the changing climate

Co-Chairs: BS Dhillon (PAU, India) Bruno Gerard (CIMMYT)

Keynote Lecture:

11:00 – 11:30 Climate resilient agriculture: a major initiative in India – Alok K. Sikka (ICAR, India)

Speakers:

- 11:30 11:50 Building resilience to climate and non-climate drivers of change through systems diversification with maize: Scope and implications in the western and eastern IGP Andrew McDonald (CIMMYT-Nepal)
- 11:50 12:05 Using ecological intensification to improve maize yields while minimizing adverse environmental effects T Satyanaryana (IPNI, India)
- 12:05 12:20 Environmental footprint of maize-based cropping systems under different crop establishment methods in north-west India Tek Sapkota (CIMMYT, India)
- 12:20 12:35 Effect of fertilizer management and cropping system on soil quality, greenhouse gas emission and maize productivity Suphakarn Luanmanee (NSFCRC, Thailand)
- 12:35 13:00 General discussion and concluding remarks by Co-Chairs

Technical Session 12: Enhancing gender equity and social inclusiveness

Co-Chairs: Nora Lapitan (USAID) Olaf Erenstein (CIMMYT)

Keynote Lecture:

11:00 – 11:30 Amplifying outcomes through addressing inequality: The role of gender transformative approaches in agricultural R4D – Paula Kantor (WorldFish, Egypt)

Speakers:

11:30 – 11:50	Community based seed systems in hills of Nepal – Yamuna Ghale (SDC, Nepal)
11:50 - 12:10	Gender roles or production relations? Gender equity and social inclusion through agriculture research – Maitrayee Mukhopadhyay (KIT, Netherlands)
12:10 - 12:30	ICT for gender empowerment – Surabhi Mittal (CIMMYT, India)

12:30 – 13:00 General discussion and concluding remarks by Co-Chairs

09:00 – 13:00 APAARI General Assembly Meeting (Only for APAARI Members and Special Invitees)

13:00 – 14:00 Lunch break

14:00 – 15:15 Plenary Session 6

Co-Chairs: Nguyen Van Bo (VAAS, Vietnam) Iftikhar Ahmad (PARC, Pakistan)

Special Lectures:

- 14:00 14:30 Nutritionally enriched maize: adoption and impact in Asia SK Vasal
- 14:30 15:00 New developments in production of doubled haploids in maize breeding – Albrecht Melchinger (Univ. of Hohenheim, Germany)
- 15:00 15:15 General discussion and remarks by Co-Chairs
- 15:15 15:45 Tea/Coffee break

15:45 – 17:00 Concluding Plenary Session

- Co-Chairs: Raj Paroda (APAARI) Thomas Lumpkin (CIMMYT)
 - Presentation of key recommendations from Technical Sessions
 - Best Poster Awards
 - Concluding remarks by Co-Chairs

19:00 Dinner hosted by APAARI and CIMMYT