13th Asian Maize Conference and Expert Consultation on “Maize for Food, Feed, Nutrition and Environmental Security”
Radisson Blu Hotel, Ludhiana, India
October 8–10, 2018

PROGRAM

Day 1: October 8, 2018

08:30 – 10:30  Inaugural Session
Venue: Amber Hall-B

08:30 – 08:35  Welcome – N.S. Bains (Director Research, Punjab Agricultural University)
08:35 – 08:50  13th Asian Maize Conference – Scope and Expectations – B.M. Prasanna (Director, Global Maize Program, CIMMYT & CGIAR Research Program MAIZE)
08:50 – 09:00  Remarks – B.S. Dhillon (Vice-Chancellor, Punjab Agricultural University)
09:00 – 09:10  Remarks – A.K. Singh (DDG-Crop Science, ICAR)
09:10 – 09:30  Remarks by Co-chair – Martin Kropff (DG, CIMMYT)
09:30 – 09:50  Remarks by Chair – Trilochan Mohapatra (DG, ICAR & Secretary, DARE, Government of India)
09:50 – 10:15  Inaugural Address by Chief Guest – Shri Gajendra Singh Shekhawat, Hon’ble State Minister, Ministry of Agriculture and Farmers’ Welfare, Government of India
10:15 – 10:25  Vote of thanks – Sujay Rakshit (Director, ICAR-Indian Institute of Maize Research)
10:25 – 10:30  National Anthem

10:30 – 11:00  Coffee/Tea (Paisley Hall)

11:00 – 12:00  Plenary Technical Session 1
Venue: Amber Hall-B

Co-Chairs: Trilochan Mohapatra (ICAR, India)
Rita Mumm (University of Illinois, USA)

11:00 – 11:25  Maize in Asia – Status, challenges and opportunities – B.M. Prasanna (CIMMYT)
11:25 – 11:50  Accelerating maize improvement using modern technologies – Neal Gutterson (Corteva) – through WebEx (Online)
11:50 – 12:00  Q&A; Remarks by Co-Chairs
12:00 – 13:00  Plenary Technical Session 2  
**Venue: Amber Hall-B**

**Panel Discussion:** “Doubling Asia’s maize production in the next decade”

**Moderator:** Martin Kropff (CIMMYT, Mexico)

**Panellists:**
1. Xinhai Li (CAAS, China)
2. Dang Ngoc Ha (NMRI, Vietnam)
3. Anand Pandravada (Corteva)
4. Herve Thieblemont (SFSA, Thailand)
5. B.M. Prasanna (CIMMYT)

13:00 – 14:00  Lunch (Paisley Hall)

14:00 – 16:00  Parallel Technical Sessions

**Technical Session 3: Novel Tools/Strategies for Increasing Genetic Gains**  
**Venue: Amber Hall-B**

**Co-Chairs:** Xinhai Li (CAAS, China)  
Navtej Singh Bains (PAU, India)

**Keynote Lecture:**
14:00 – 14:25  Seeds of Discovery (SeeD) in maize – Kevin Pixley (CIMMYT, Mexico)
14:25 – 14:30  Q&A

**Lead Talks:**
14:30 – 14:50  Tropical maize genome: what do we know so far, and how to use that information? – Yunbi Xu (CIMMYT, China)
14:50 – 15:10  Genomic and enabling technologies for enhancing genetic gains in tropical maize – Sudha Nair (CIMMYT, India)
15:10 – 15:30  High-throughput field-based phenotyping in maize – Mainassara Zaman-Allah (CIMMYT, Zimbabwe)
15:30 – 15:35  Q&A

**Rapid Fire Presentations:**
15:35 – 15:45  Genome-wide selection to introgress exotic maize germplasm into China – Hongjun Yong (CAAS, China)
15:45 – 15:55  Herbicides-induced chromosome doubling of maize haploids in tropical environments – Yufeng Jiang (GAAS, China)
15:55 – 16:00  Remarks by Co-Chairs
Technical Session 4: Sustainable intensification of maize-based cropping systems in Asia

Venue: Amber Hall-A

Co-Chairs: A.K. Singh (ICAR, India)
           Sain Dass (Ex-ICAR-IIMR, India)

Keynote Lecture:
14:00 – 14:25 Precision agriculture in maize-based cropping systems – Bruno Gerard (CIMMYT, Mexico)
14:25 – 14:30 Q&A

Lead Talks:
14:25 – 14:45 New horizons of sustainable intensification in maize systems in South Asia – M.L. Jat (CIMMYT, India)
14:45 – 15:05 Maize intensification in major production regions of the world: Evidence from a global multi-location study – T. Satyanarayana (IPNI, India)
15:05 – 15:20 Does conservation agriculture yield benefits in coastal Bangladesh? Evidence from three years of farmer managed rice-maize rotational trials – Timothy Krupnik (CIMMYT, Bangladesh)
15:25 – 15:30 Q&A

Rapid Fire Presentations:
15:30 – 15:40 Efficiency of slow/controlled-release fertilizers or nano-endophyte on agronomy and yield of maize hybrids in the Mekong delta of Vietnam – Le Quy Kha (IAS, Vietnam)
15:40 – 15:50 Ecological intensification for climate resilient maize-based cropping systems in India – Aditya Singh (ICAR-IIMR, India)
15:50 – 16:00 Q&A; Remarks by Co-Chairs

16:00 – 16:30 Coffee/Tea (Paisley Hall)

16:30 – 18:00 Poster Session-I

18:30 Depart for Punjab Agricultural University (PAU) campus

19:00 – 20:00 Cultural Program

20:00 – 21:30 Dinner hosted by PAU

21:30 Depart back to the Hotels
Day 2: October 9, 2018

08:20 – 09:30  Plenary Technical Session 5
Venue: Amber Hall-B
Co-Chairs:  B.S. Dhillon (PAU, India)
Ram Kaundinya (FSII, India)

08:20 – 08:50 Institutional and policy innovations for food and nutritional Security in Asia – Ramesh Chand (Niti Aayog, India)
08:50 – 09:15 Maize improvement in India – Status and prospects – Sujay Rakshit (ICAR-IIMR, India)
09:15 – 09:30 Q&A; Remarks by Co-Chairs

09:30 – 10:00  Coffee/Tea (Paisley Hall)

10:00 – 12:00 Parallel Technical Sessions

Technical Session 6: Maize Breeding and Stress Resilience in Asia
Venue: Amber Hall-B

Co-Chairs:  Mike Robinson (SFSA, Switzerland)
P.K. Chakraborty (ICAR, India)

Keynote Lecture:
10:00 – 10:25 Maize for changing climate: chasing the moving target – P.H. Zaidi (CIMMYT, India)
10:25 – 10:30 Q&A

Lead Talks:
10:30 – 10:45 Next generation phenotyping technologies in Breeding for Abiotic Stress Tolerance in Maize – Mitch Tuinstra (Purdue University, USA)
10:45 – 11:00 Identification and promotion of heat stress resilient maize hybrids for Terai region of Nepal – K.B. Koirala (NMRP, Nepal)
11:00 – 11:05 Q&A

Rapid Fire Presentations:
11:05 – 11:15 Genomic regions associated with heat stress tolerance in tropical maize – Seetharam K. (CIMMYT, India)
11:15 – 11:25 Outbreaks of Fusarium ear rot on maize In Thailand – Warapon Bukoed (Kasetsart University, Thailand)
11:25 – 11:35 Defense response boost through Cu-chitosan Nanoparticles and Plant Growth enhanced coupled with Multiple Disease Control – Shyam Sundar Sharma (MPUAT, India)
11:35 – 11:45 Comparative analysis of biochemical and physiological responses of maize genotypes under waterlogging stress – Tahmina Akter (Khulna Univ., Bangladesh)

11:45 – 11:55 Identification of Quantitative Trait Loci for Resistance to Shoot Fly in Maize – Yogesh Vikal (PAU, India)

11:55 – 12:00 Remarks by Co-Chairs

**Technical Session 7: Socioeconomics and innovative policies for enhanced maize production and impacts**

**Venue: Amber Hall-A**

Co-Chairs: R.K. Singh (ICAR-CIPHET, India)
Ravi Khetarpal (APAARI, Thailand)

**Keynote Lecture:**
10:00 – 10:25 Maize market development in Nepal – Challenges and Prospects – Dyutiman Choudhary (CIMMYT, Nepal)

10:25 – 10:30 Q&A

**Lead Talk:**
10:30 – 10:50 Gender and social inclusion in maize value chains – Md. Siddiqur Rahman (Jahangirnagar University, Bangladesh)

10:50 – 11:00 Q&A

**Rapid Fire Presentations:**
11:00 – 11:10 Pre-harvest forecasting of maize yield using climate variables – Rajesh Khavse (JNKVV, India)

11:10 – 11:20 Technical efficiency of small holder maize growers in Nepal and its implications on value chain promotion and extension – Shriniwas Gautam (CIMMYT, Nepal)

11:20 – 11:30 Livelihood of the maize street vendors in Pakistan – Akhter Ali (CIMMYT, Pakistan)

11:30 – 11:40 Dynamics of maize utilization and its implication in maize technology demand in Nepal – Yuga Nath Ghimire (NARC, Nepal)

11:40 – 12:00 Q&A; Remarks by Co-Chairs

12:00 – 13:00 Plenary Technical Session 8

**Venue: Amber Hall-B**

**Panel Discussion:** “Ensuring a vibrant maize seed sector in Asia through public-private partnerships”

**Moderator:** B.M. Prasanna (CIMMYT)

**Panellists:**
1. Mike Robinson (SFSA)
2. Hailu Wordofa (USAID)
3. Ram Kaundinya (FSII, India)  
4. Bijendra Pal (Bioseed)  
5. B.S. Vivek (CIMMYT, India)  
6. Suriphat Thaitad (NSFCRC, Thailand)

13:00 – 14:00  Lunch (Paisley Hall)

14:00 – 16:00  Parallel Technical and Poster Sessions

**Technical Session 9: Specialty Maize, Processing and Value Addition**

*Venue: Amber Hall-B*

Co-Chairs: Suresh Malhotra (Agriculture Commissioner, DAC, India)  
K.B. Koirala (NMRP, Nepal)

**Keynote Lecture:**  
14:00 – 14:25 Specialty maize in Thailand – Chokechai Aekatasanawan (Kasetsart University, Thailand)  
14:25 – 14:30 Q&A

**Lead Talks:**  
14:30 – 14:45 Specialty maize cultivation, processing and marketing in India: A farmer’s experience – Kanwal Singh Chauhan (Progressive Farmers, Haryana, India)  
14:45 – 15:00 Popcorn market in India: An Agri-industrialist experience – Yugandhar Y. (Gourmet Popcornica Ltd., India)  
15:00 – 15:05 Q&A

**Rapid Fire Presentations:**  
15:05 – 15:15 Marker-assisted introgression of waxy1 gene into elite inbreds for enhancement of amylopectin in maize hybrids – M.Z.A. Talukder (BARI, Bangladesh/ICAR-IARI, India)  
15:15 – 15:25 Development of two sweet corn populations resistance to northern corn leaf blight disease – Wassamon Mongkol (Kasetstart University, Thailand)  
15:25 – 15:35 Development of synthetic maize source material according to silage quality values – Rahime Cengiz (MRI, Turkey)  
15:35 – 15:45 On-farm and on-Station assessment of popcorn genotypes targeting mid-hill farmers of Nepal – Ramesh Acharya (NARC, Nepal)  
15:45 – 16:00 Remarks by Co-Chairs

14:00 – 16:00  Parallel Poster Session-2

16:00 – 16:30  Coffee/Tea (Paisley Hall)

16:30 – 18:30  Parallel Technical and Poster Sessions

**Technical Session 10: Nutritionally enriched maize for Asia**
**Venue: Amber Hall-B**

Co-Chairs: S.K. Vasal (Ex-CIMMYT)  
Rajbir Singh (ICAR-ATARI, India)

**Keynote Lecture:**  
16:30 – 16:50 Impact of biofortified maize in southern China – Fan XingMing (YAAS, China)  
16:50 – 16:55 Q&A

**Lead Talks:**  
16:55 – 17:10 Molecular breeding for development of biofortified maize hybrids in India – Firoz Hossain (ICAR-IARI, India)  
17:10 – 17:25 Adoption of biofortified maize varieties in Nepal – AbduRehman Issa (CIMMYT, Nepal)  
17:25 – 17:30 Q&A

**Rapid Fire Presentations:**  
17:30 – 17:40 Genetic mapping of kernel-zinc and iron in maize – Hindu Vemuri (CIMMYT, India)  
17:40 – 17:50 Marker-assisted introgression of opaque2 and crtRB1 for enhancement of amino-acids and provitamin-A in sweet corn – Brijesh Mehta (ICAR-IARI, India)  
17:50 – 18:00 Diallel analysis of temperate maize germplasm for lysine and methionine amino acid content and studies for developing quality doubled haploid lines – Sekip Erdal (ARI, Turkey)  
18:00 – 18:10 Effects of QPM and provitamin-A rich maize on growth and slaughter variables in Vanaraja chicken – Prakash B. (ICAR-DPR, India)  
18:10 – 18:30 Remarks by Co-Chairs

**16:30 – 18:30 Parallel Poster Session-3**

**19:30 – 21:00 Conference Dinner (Amber Hall A&B)**

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**Day 3: October 10, 2018**

**07:15** Depart from Hotels to BISA Farm in Ladowal, Ludhiana

**08:00 – 11:00 13th AMC Field Demonstrations**

- Asia-adapted Improved maize varieties from public and private sectors  
- Scale-appropriate mechanization in maize systems  
- GxE in maize  
- Precision nutrient and water management in maize-based systems  
- Decision tools, sensors and automation-based management systems

**11:30** Depart to Conference Venue (Radisson Blu Hotel)
13:00 – 14:00  Lunch (Paisley Hall)

14:00 – 15:00  Plenary Technical Session 10
Venue: Amber Hall-B

Panel Discussion: “Maize in Asia: Strategic Priorities”

Moderator: Kevin Pixley (CIMMYT)

Panellists:
1. B.S. Dhillon (PAU, India)
2. K.B. Koirala (NMRP, Nepal)
3. Le Quy Kha (IAS, Vietnam)
4. Salahuddin Ahmed (BARI, Bangladesh)
5. M.L. Jat (CIMMYT, India)

15:00 – 15:30  Tea/Coffee (Paisley Hall)

15:30 – 16:30  Final Plenary Session
Venue: Amber Hall-B

Co-Chairs: Martin Kropff (CIMMYT, Mexico)
Mike Robinson (SFSA, Switzerland & MAIZE-ISc)

Facilitators: B.M. Prasanna (CIMMYT/MAIZE)
Victor Kommerell (CIMMYT/MAIZE)

- MAIZE-Asia Youth Innovator Awards (with brief presentation by each Awardee)
- Best Poster Awards
- Concluding Remarks

16:30  Conference closes