

**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. Dhilon (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 (CAAS, 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

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 – Shrinivas 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 (Kasetsart 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)

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
- G×E×M 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