

# Nitrogen VJC Meeting and Conference

## AGENDA

Tuesday, 3 October, 2017

### 12:00-13:00 REGISTRATION AND LUNCH

**13:00-15:30** Welcome and Opening Presentations

**13:00** Welcome and Purpose (*Arti Bhatia, Mark Sutton and N. Raghuram*)

**13:10** Introduction of the Newton-Bhabha Fund (*Aditi Sharma*)

**13:15** Introduction of DBT (*Shailja Gupta / Sanjay Khalia*)

**13:20** Introduction of RCUK (*Andrew Telford*)

**13:30** Introduction of CINTRIN (*Tina Barsby*)

**14:00** Introduction of INEW (*Peter Shewry and Karnam Venkatesh*)

**14:30** Introduction of IUNFC (*Philip Poole and D.L.N. Rao*)

**15:00** Introduction of NEWS (*Mark Sutton and N. Raghuram*)

### 15:30-16:00 COFFEE BREAK

**16:00-18:00** Offered Presentations from CINTRIN

**16:00** Howard Griffiths: *Cambridge Crop Sciences: Opportunities for expanding partnerships*

**16:15** Roger Sylvester-Bradley: *The theatre of nutritional efficiency*

**16:30** Emma Wallington: *NIAB Crop Transformation and early progress in the CINTRIN project*

**16:45** Vasudev Kumanduri: *Data integration/overview of use of KisanHub technology*

**17:00** Stephanie Smith: *Translating mechanisms of biological nitrogen response from Brachypodium to cereal crops*

**17:15** Stéphanie Swarbreck: *Scaling wheat nitrogen response and partitioning from pots to field studies*

**17:30** Varinderpal Singh: *PAU-Leaf Colour Chart for improving nitrogen use efficiency in field crop*

**17:45** Rakesh K Srivastava: *Pearl Millet Genomics: Applying Innovations for improving nitrogen use efficiency (NUE)*

**19:00 CONFERENCE DINNER (sponsored by INMS)**

## Wednesday, 4 October, 2017

**09:00-10:30** Offered presentations from NEWS (*Chair: Tina Barsby*)

**09:00** Adam Price: *The Bengal and Assam Aus Population for genetic mapping in rice*

**09:15** N. Raghuram: *Investigating the phenotype and genotype for N-response and NUE in rice*

**09:30** Altaf Ahmad: *Proteome analysis of rice genotypes at varied levels of nitrogen treatments*

**09:45** Dinesh Kumar: *Field screening of rice genotypes for enhanced nitrogen use efficiency*

**10:00** C.N. Neeraja: *Is the yield only selection criterion for NUE in rice?*

**10:15-11:00 COFFEE BREAK AND POSTER VIEWING**

**11:00-12:30** Offered presentations from NEWS (*Chair: Mark Sutton*)

**11:00** Arti Bhatia: *Assessment of Nitrogen use efficiency and N fluxes as affected by sources, timing and N management in rice*

**11:15** Jo Smith: *Modelling use of organic resources at whole farm level, and impacts on carbon and nitrogen available from soils*

**11:30** Dali Nayak: *Simulating impact of nutrient supply on production of crops*

**11:45** Sanjoy Bandyopadhyay: *Nitrogen movement and balances at the small farm level in NW India*

**12:00** Saran Sohi: *Nitrogen interactions with biochar - a workable approach to address problems of farming and the environment*

**12:15** Edward Carnell: *National scale nitrogen strategies for India*

## 12:30-13:30 LUNCH AND POSTER VIEWING

**13:30-14:30** Offered presentations from INEW (*Chair: Peter Shewry*)

**13:30** P. K. Mandal: *Understanding Biochemical and Molecular Basis of Nitrogen Use Efficiency in Wheat*

**13:45** Till K. Pellny: *The Watkins collection as a source for genetically versatile pre-breeding lines*

**14:00** John Foulkes: *Exploiting phenology and adaptation to improve N use efficiency in wheat*

**14:15** M.L. Jat: *Precision nutrition platform at BISA*

**14:30-15:35** Offered presentations from partner institutes (*Chair: Andrea MÓring*)

**14:30** Pooja Pawar: *Atmospheric ammonia detection over India and China using MOZART model*

**14:45** Sahaj Kaur: *Lichen biomonitoring Of Nitrogen And Heavy Metal Deposition In Pithoragarh, Uttarakhand, Western Himalayas, India*

**14:50** Tapan Adhya: *Report on INMS South Asia Workshop held at Male, Maldives*

**15:05** Aimable Uwizeye: *Towards the global framework for nitrogen use analysis and associated environmental impacts assessment*

**15:20-15:30** Introduction to the Parallel Group Discussions

## 15:30-16:00 COFFEE BREAK AND POSTER VIEWING

**16:00-18:00** Parallel Group Discussions

G1: Challenges for Biological Nitrogen Fixation (*Chairs: Phil Poole and D.L.N. Rao*)

G2: Challenges for Biological Nitrogen Use Efficiency (*Chairs: N. Raghuram and John Foulkes*)

G3: Challenges for Agronomic NUE (including environmental impacts) (*Chairs: Himanshu Pathak and Jo Smith*)

**18:00 END OF DAY 2**

## Thursday, 5 October, 2017

**09:00-10:30** Plenary discussion with feed-back from working groups (*Chairs: Mark Sutton and Tina Barsby*)

**09:00** Report from G1 and Discussion

**09:30** Report from G2 and Discussion

**10:00** Report from G3 and Discussion

### 10:30-11:00 COFFEE BREAK

**11:00-13:00** General discussion towards synthesis and future challenges

**11:00** Science challenges (*Chair: J.K. Ladha*)

**11:30** Operational challenges - Lessons in getting cooperation working (*Chair: Peter Shewry*)

**12:00** Science to policy goals (*Chair: Tapan Adhya*)

**12:30** Conclusions and next steps for workshop products (*Chairs: Mark Sutton, Tina Barsby and N. Raghuram*).

### 13:00 LUNCH AND DEPART