



*Technical Programme*

**National Symposium**

**on**



**"Future Technologies : Indian Cotton in  
the Next Decade"**

**17-19 December, 2015**

**Organized by**

**Cotton Research and Development Association,**

**CCS Haryana Agricultural University, Hisar**

**and**

**Acharya N. G. Ranga Agricultural University,**

**Regional Agricultural Research Station, LAM, Guntur**

**in Collaboration with**



**Indian Council of Agricultural Research, New Delhi**

**Acharya Nagarjuna University, Guntur**

**Andhra Pradesh Cotton Association, Guntur**

**Thursday, 17<sup>th</sup> December, 2015**

|             |  |
|-------------|--|
| 8.00-9.00   | Registration   |
| 9.00-11.30  | Inaugural Programme  |
| 11.30-12.00 | Inaugural Tea  |
| 12.00-13.30 | <b>LEAD LECTURES (SESSION - I)</b> <ul style="list-style-type: none"><li>• Genetic transformation in cotton (<i>Gossypium hirsutum</i> L.) - <b>S. Leeavathi</b></li><li>• Characterization of work related drudgery of women in cotton production - <b>A. Mrunalini</b></li><li>• Prospective of <i>Bt</i> cotton in Haryana - <b>S. S. Siwach</b></li><li>• Cotton Productive strategy for the next decade by Seed Industry prospective - <b>Vipin S. Dagonakar</b></li></ul>  |
| 13.30-14.30 | Lunch Break  |
| 14.30-17.30 | <b>CONCURRENT SESSION-II (Crop Improvement, Biotechnology and Post Harvest Technology)</b><br><b>INVITED PAPERS</b> <ul style="list-style-type: none"><li>• Plant ideotype breeding in cotton - <b>S. Manickam</b></li><li>• Why hybridization in cotton : Problems and prospects - <b>Pankaj Rathore</b></li><li>• Genetic enhancement in cotton through conventional and genetic engineering approaches - <b>O. P. Tuteja</b></li></ul> <b>ORAL PRESENTATION</b> <ul style="list-style-type: none"><li>• Cotton in Gujarat - A review - <b>B. G. Solanki</b></li><li>• Evaluation of <i>Bt</i> cotton hybrids for yield and fibre quality traits - <b>K. V. Siva Reddy</b></li><li>• Genetic improvement for fibre quality traits in <i>arboreum</i> cotton - <b>V. N. Chinchane</b></li><li>• Resurgence of <i>desi</i> cotton - A status of past, present and future - <b>A. Manivannan</b></li><li>• Genetics of seed cotton yield and its attributing characters in cotton (<i>Gossypium hirsutum</i> L.) - <b>S. Rajamani</b></li></ul> |

- Level of heterosis for seed cotton yield and yield attributing traits in cultivated upland cotton (*Gossypium hirsutum* L.) - **M. Gunasekaran**
- 14.30-17.30 **CONCURRENT SESSION-III (Crop Production, Mechanization and Economic Development)**
- INVITED PAPERS**
- Weed management - Present status and future strategies for cotton - **P. Nalayini**
  - Status of cotton harvesting machinery in India - **Manjeet Singh**
  - Agronomy of transgenic and non transgenic cotton in India - **P. L. Nehra**
  - Need for conservation agriculture in cotton - **D. Blaise**
- ORAL PRESENTATION**
- Agronomic evaluation of popular *Bt* cotton hybrids in Marathwada region under rainfed condition - **A. D. Pandagale**
  - Productivity and profitability of BG II cotton hybrids as influenced by different planting geometry and nitrogen levels under rainfed condition in vertisole of Andhra Pradesh - **S. Jaffar Basha**
  - Physiological assessment of drought tolerance in cotton *hirsutum* genotypes under rainfed conditions in vertisols. - **S. Ratna Kumari**
  - Empowerment of women to mitigate drugery in cotton picking - **Kusum Rana**
  - Performance of American cotton genotypes in relations to different spacing and fertilizers levels in south western regions of Punjab - **H. S. Brar**
  - Effect of micro nutrients and liquid fertilizers on the growth and yield of *Bt* cotton under irrigation - **Vinayak Hosamani**

14.30-17.30 **CONCURRENT SESSION-IV (Plant Protection and Biosafety)**

**INVITED PAPERS**

- *Bt* cotton and pest management : Exploitation of insecticides for pest management - **A. K. Dhawan**
- Disease scenario of cotton and management strategies in India - Recent development - **D. Monga**
- Impact of nematode disease on the cotton production in India - **Nandini Gokte-Narkhedkar**
- *Bt* cotton and arthropod biodiversity - **S. Mohan**
- Population dynamics of whitefly influenced by weather parameters and its management in cotton - **K. K. Dahiya**
- Integrated disease management of Alternaria leaf spot in cotton - **S. N. Chattannavar**

**ORAL PRESENTATION**

- Population dynamics of target and non target pests in transgenic cotton - **U. B. Hole**
- Integrated management of foliar diseases in cotton - **S.L. Bhattiprolu**
- Evaluation of spacing and spray schedule for management in bollworms - **P. W. Nemade**

**Friday, 18<sup>th</sup> December, 2015**

09.30-11.00 **LEAD PAPERS (SESSION - V)**

- Resistance management in *Bt* cotton - **B. V. Patil**
- New wilt of cotton - **P.P. Shastry**
- Mechanization of cotton cultivation in India - **Gautam Majumdar**
- Impact of elevated CO<sub>2</sub> on cotton productivity - A climate resilience - **N. Gopalakrishnan**
- Cotton Crop protection key trends and solutions - **Rajshekhar Sakhalkar, Asif Tanweer**

11.00-11.30 Tea Break

- 11.30-13.30 **Young Scientist Award Presentation (Session-VI)**
- Molecular Characterization of upland cotton by using RAPD markers - **J.D. Deshmukh**
  - Utilizing heterotic group of cotton and forming sub groups for further exploitation based on combing ability pattern - **H.G. Kencharaddi**
  - Genetical and biochemical basis of cotton leaf curl disease in upland cotton - **Anuradha Godara**
  - Shedy of molecular variability of *Alternaria* spp on *Bt* cotton - **G.N. Hosagoudar**
  - Jasmonic acid and salicyclic acid induced protection against cotton leaf curl disease - **Ritu Raj**
  - Studies on population diversity of pink bollworm using SSR molecular markers in cotton growing regions of southern India - **S. Nandini**
  - Emerging insect pests of *Bt* cotton in middle Gujarat - **M. B. Zala**
  - A rapid process of preparation of bioenriched compost from cotton stalk - **V. Mageshwaran**
  - Enhancement of UV protective property of cotton fabric by using plant extract - **Vandana Gupta**
- 13.30-14.30 Lunch Break
- 14.30-16.30 **CONCURRENT SESSION-VII (Crop Improvement, Biotechnology and Post Harvest Technology)**
- INVITED PAPERS**
- Development of high yielding better fibre quality varieties/hybrids of *desi* (*G. arboreum* L) and American cotton (*G. hirsutum*) through conventional breeding for Marathwada region of Maharashtra - **D. B. Deosarkar**
  - Functional finishing of cotton textiles - **A. Sarada Devi**
  - Inheritance of resistance against cotton leaf curl virus disease in *Gossypium hirsutum* L. - **R. S. Sangwan**

#### ORAL PRESENTATION

- Effect of DR gin setting and moisture content on gin productivity, energy consumption and fibre attributes  
- **Varsha Satankar**
- American cotton genotype Phyle Yamuna (RHC 0717) : Potential for central zone of India  
- **R. W. Bharud**
- Stability for seed cotton yield and its components in cotton  
- **Y. Rama Reddy**
- Genetic variability studies in *Gossypium* spp for the development of superior fibre quality lines  
- **N. Kannan**
- Multivariate analysis of genetic diversity in upland cotton (*Gossypium hirsutum* L)  
- **S. Pradeep**
- Genetic analysis in cotton (*Gossypium hirsutum* L) for mechanical harvesting.  
- **P. Karthikeyan**

14.30-16.30

#### CONCURRENT SESSION-VIII (Crop Production, Mechanization and Economic Development)

##### INVITED PAPERS

- Positive discrimination in *Bt* cotton and non *Bt* cotton cultivation in Karnataka : An economic analysis  
- **V. L. Madhu Prasad**
- Does *Bt* cotton differ from conventional cotton on agronomic requirement ?  
- **K. Sankaranarayanan**
- Role of extension agencies in increasing the cotton production in India  
- **S. Usha Rani**
- Characterization of a bio remediation *bacterium* from cotton field of Gunupur area Odisha  
- **T. Venu Gopal Rao**

#### ORAL PRESENTATION

- Staple length composition of production and export of cotton in India  
- **Devendra Beeradinni**
- Polymulch on moisture conservation technique in ET based drip irrigated *Bt* cotton in vertisoles of Andhra Pradesh  
- **S. Bharathi**

- Efficacy of glyphosphate and other herbicides in management of weeds in rainfed cotton (*Gossypium hirsutum* L) under high density planting system.  
- **B. S. Nayak**
  - Global competitiveness of cotton in Tamil Nadu  
- **S. Kanaka**
- 14.30-16.30 **CONCURRENT SESSION-IX (Crop Protection and Biosafety)**
- INVITAED PAPERS**
- Bio-intensive pest management in cotton : Do's and don'ts of whitefly management  
- **S. Kranthi**
  - Cotton leaf curl disease (CLCuD) serious threat to cotton in north India - An overview  
- **P. S. Sekhon**
  - Secondary pest's outbreak in *Bt* cotton-**Rishi Kumar**
  - Status of nematode problems on cotton - An Indian scenario  
- **K. K. Verma**
  - Increasing trend of biopesticides in the cotton production technologies  
- **A. G. Sreenivas**
- ORAL PRESENTATION**
- Status of whitefly (*Bemisia tabaci*, Genn.) population on *Bt* cotton in marathwada region of Maharashtra under changing climate  
- **P. R. Zanwar**
  - Population dynamics of cotton insect pests in scaree rainfall zone of Andhra Pradesh  
-**A.S.R. Sarma**
  - Field performance of *Bt* cotton hybrids against major pests under unprotected conditions in Andhra Pradesh  
- **N.V.V.S. Durga Prasad**
  - Status of insecticides resistance in leaf hopper, *Amrasca biguttula biguttula* (Ishida) on cotton  
- **Rajwinder Kaur**
  - Population dynamics of major sucking pests of cotton and its relationship with weather factor  
- **Arun Janu**
- 16.30-16.45 Tea Break
- 16.45-onwards **Session -X Poster Presentations**

Saturday, 19<sup>th</sup> December, 2015

9.00-10.00

**LEAD PAPERS**

- Water management technologies for cotton under irrigated conditions **-G.S. Buttar**
- Cotton and its prospective uses. **-Nirmal Yadav**
- India's Global Leadership in cotton : How to sustain the success **- S. Ganesh**

10.00-10.15

Tea Break

10.15-11.15

**INVITED PAPERS**

- Mechanization of cotton harvesting in India - Status, issues and challenges **-S. K. Shukla**
- Futuristic extension model for empowerment and improvement of livelihoods of small scale cotton farmers through Farmer field schools, Farmers life schools and Supply chain linkage - A better cotton initiative **- S. V. Reddy**
- Efforts by union ministry of agriculture and farmers welfare through implemetations of National Food Security Mission - Commercial crops (NFSM-CC) for improvement in production scenario of cotton. **-R. P. Singh**
- Development of GIS and GPS based spatial cotton fibre quality map **- V. G. Arude**

11.15-13.30

**SESSION - XI SPECIAL SESSION - Open House Discussion**

- Whitefly outbreak - Reasons and management
- Pink bollworm - Becoming threat to cotton cultivation
- Leaf curl virus disease - Problematic in *Bt* cotton hybrids
- Stability of cotton production - How to sustain

13.30-14.30

Lunch Break

14.30-16.00

**SESSION - XII PLENARY SESSION**

- Presentation of reports/recommendations by the Chairman of respective sessions
- Award Ceremony

16.00-16.30

Concluding Tea

16.30-onwards **POST SYMPOSIUM TOUR**