

Seventh Asian Cotton Research and Development Network Meeting' (ACRDN)

Le Meridien, Nagpur, India, September 15-17, 2017.

Indian Society for Cotton Improvement, International Cotton Advisory Committee, ICAR-Central Institute for Cotton Research and ICAR-Central Institute for Research on Cotton Technology

Theme: *Production of quality fibre and doubling cotton farmers' income*

Details of Technical Sessions

Date	Session	Rapporteurs
15/09/2017	Plenary Session	
10.30-11.30 hrs	Chair: Dr Anand Kumar Singh, DDG (Crop Science), ICAR, New Delhi Co-chair: Dr AK Basu, Former Director, ICAR-CICR, Nagpur Speakers: Shri Suresh Kotak: KING COTTON, future for Asia Dr Terry Townsend: The dynamics of cotton markets with reference to Asia	Dr. M. V. Venugopalan
15/09/2017	Global Best Practices for High Yields	
11.30-13.30 hrs	Chair: Shri Suresh Kotak, Chairman, ISCI, Mumbai Co-chair: Shri Ramesh Deshpande, World Bank Expert Speakers: Derek Russell: Best practices for high yields in Australia Md Negm: Best practices for high yields in Egypt MV Venugopalan: Refining and adapting global best practices for enhancing the productivity of Indian cotton Kamrul Islam: Best practices for high yields in Bangladesh	Dr. M. V. Venugopalan
15/09/2017	Poster Session	
14.30-15.30 hrs	Co-ordinators: Dr. D. Blaise and Dr. Nandini Gokte - Narkhedkar	Dr. T. R. Loknathan
15/09/2017	Panel Discussion 2: Cotton Mechanization	
15.30-17.00 hrs	Chair: Dr. RP Kachru, Ex ADG(PE), ICAR, New Delhi (India) Co-chair: Dr PG Patil, Director, ICAR-CIRCOT, Mumbai (India) Co-chair: Prof. SP Deshmukh, ICT, Mumbai (India) Speakers: Gautam Majumdar: Small holder cotton mechanization: bane or a boon SK Shukla: Effect of various ginning technologies on fibre properties of machine harvested cotton MK Sharma: Technological advances in double roller gin plant machineries in India during 2010-2016 Jagvir Singh: Product Manager, Tirth Agro Technology Pvt. Ltd, Rajkot Agricultural implements –Shaktiman Brand	Dr. A. R. Reddy Dr. K. P Raghavendra
15/09/2017	SAARC SPECIAL Concurrent Panel Discussion Session 3: GERMLASM EXCHANGE	
15.30-17.00 hrs	Chair: Dr. RK Singh, ADG (CC), ICAR, New Delhi (India) Co-chair: Dr. R. Ramasamy, CMD, Rasi Seeds, Salem Panellists: Dr. V. Kumar, Dr. N. Gopalakrishnan, Dr. Farid Uddin, Dr. S. Manickam, Dr. Vipin Dagaonkar	Dr. H. B. Santosh Mr. Prabhulinga T
16/09/2017	Cotton viral diseases - 4A	
10.15-12.15hrs	Chair: Dr Judith Brown, Professor, School of Plant Sci., Univ. of Arizona (USA) Co-chair: Dr. D. Monga, Head, CICR, Regional Station, Sirsa (India) Speakers: Judith Brown: Spatial and temporal distribution analysis of the cultivated-wild plant host interface reveals extreme genomic diversity among geminiviruses in Pakistan Albert Santos: Breeding cotton for CLCuD resistance D Monga: Cotton Leaf Curl Virus Disease in India- Integrated management strategies and the way ahead Dharminder Pathak: Interspecific hybridization for cotton leaf curl disease resistance in upland cotton	Mr. Prabhulinga T Dr. K. P. Raghavendra
16/09/2017	Breeding for quality & high yields - 4B	
10.15-12.15hrs	Chair: Dr Mohammed A. Negm, Vice Chairman (ICAC) & Professor (Agri. Res. Centre), Egypt Co-chair: Dr AK Basu, Ex- Director, ICAR-CICR, Nagpur Speakers:	Dr. H. B. Santosh Dr. Guru Prasad

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	<p>SL Ahuja: Evaluation of advance generation population of <i>G. hirsutum</i> cotton for high GOT% and high yield under North zone irrigated conditions</p> <p>MM Abed Ali: Additive main effects and multiplicative interaction analysis in upland cotton</p> <p>Vadodariya KV: Combining ability analysis for seed cotton yield and its component traits in cotton (<i>Gossypium hirsutum</i> L.)</p> <p>SM Palve: Genetic variation for harvest index in upland cotton (<i>G. hirsutum</i> L.)</p> <p>DH Patel : G X E interaction and stability analysis in cotton</p>	
16/09/2017	Abiotic stress and Climate change - 4C	
10.15-12.15hrs	<p>Chair: Dr Md. Farid Uddin, Executive Director, Cotton Development Board, Bangladesh</p> <p>Co-chair: Dr AH Prakash, Project Coordinator, ICAR-CICR, Regional Station, Coimbatore (India)</p> <p>Speakers:</p> <p>Vinita Gotmare: Waterlogging tolerant <i>Gossypium hirsutum</i> germplasm accessions</p> <p>JH Meshram: Root system architecture (RSA) under stress: Implications for adaptive responses in cotton</p> <p>Khalequzzaman: Effect of cotton seed oilcake on cotton yield and yield contributing characters</p>	<p>Dr. A. R. Reddy</p> <p>Dr. C. Sundaramoorthy</p>
16/09/2017	Whiteflies -5A	
12.30-14.00hrs	<p>Chair: Dr Timothy Dennehy, Global IRM Manager, Seeds & Traits, Bayer, NC (USA)</p> <p>Co-chair: Dr D Monga, Head, ICAR-CICR, Regional Station, Sirsa (India)</p> <p>Speakers:</p> <p>Timothy Dennehy: Global perspectives on whitefly</p> <p>SK Sain: Studies to identify most virulent strains of entomopathogenic fungi for microbial control of sweetpotato whitefly (<i>Bemisia tabaci</i>) infesting cotton in North India</p> <p>Rishi Kumar: Whitefly epidemics in north cotton growing zone of India: lessons learnt and way forward</p> <p>Satnam Singh: Status of insecticide resistance in <i>Bemisia tabaci</i> to commonly used insecticides in cotton from Punjab</p>	<p>Mr. Prabhulinga T</p> <p>Dr. K. P Raghavendra</p>
16/09/2017	Socio-Economics and Technology transfer - 5B	
12.30-14.00hrs	<p>Chair: Dr. M. P. Thakur, Director (Extension), IGKV, Raipur (India)</p> <p>Co-chair: Dr. D. M. Mankar, Director (Research), PDKV, Akola (India)</p> <p>Speakers:</p> <p>M. Sabesh: Global best practice for higher cotton productivity- Can India adopt and improve?</p> <p>A. R Reddy: Is MSP relevant for cotton farmers in India</p> <p>S. M. Wasnik: Role of ICTs in promotion of best cotton management practices and enhanced productivity</p> <p>S. Usha Rani: Best farmer friendly transfer of technology practices proposed to double the cotton farmers' Income in India</p> <p>Rajeev Baruah: The Better Cotton Initiative: Developing better cotton as a mainstream commodity</p>	<p>Dr. A. R. Reddy</p> <p>Dr. C. Sundaramoorthy</p>
16/09/2017	Nanotechnology -Applications in cotton - 5C	

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12.30-14.00hrs	Chair: Dr. S. Sreenivasan, Former Director, ICAR-CIRCOT, Mumbai (India) Co-chair: Dr. R. P. Nachane, Former Head, QEID, ICAR-CIRCOT Speakers: N. Vigneshwaran: Application of nanotechnology in cotton R. Guruprasad: Electrospun nanomaterials - Basics and Applications A. Arputharaj: Development of functional cotton textiles using nano-ZnO A. K. Bharimalla: Application of Nanocellulose in pulp & paper and composites	Er. A. K. Bharimalla Dr. P. K. Mandhyan
16/09/2017	Bollworms -IPM/IRM -6A	
15.00-17.00hrs	Chair: Dr. Derek Russell, Hon. Associate Professor, Univ. of Melbourne (Australia) Co-chair: Dr. B. V. Patil, Professor of Entomology (Retd.) and Former VC, UAS-Raichur (India) Speakers: Derek Russell: A Brief History of <i>Helicoverpa</i> and <i>Pectinophora</i> B. V. Patil: Resistance monitoring of <i>Helicoverpa armigera</i> to insecticides across different locations of Karnataka G. M. V. Prasad Rao: Status of Heliothines resistance to <i>Bt</i> cotton in the world H. R. Desai : Bio-rational Insecticides against pink bollworm, <i>Pectinophora gossypiella</i> Saunders in <i>Bt</i> cotton	Mr. Prabhulinga T
16/09/2017	Nutrient Management technologies -6B	
15.00-17.00hrs	Chair: Dr. Kamrul Islam, Senior Scientific Officer, Cotton Development Board (Bangladesh) Co-chair: Dr. ND Parlawar, Associate Dean, College of Agriculture, Nagpur (India) Speakers: M. T. Rahman: Effect of foliar nitrogen fertilization on cotton Yield, fiber properties and seed quality Md. Mominul Islam: Performance of different levels of NPKS on growth and yield of some newly released cotton varieties Kamrul Hassan: Influence of foliar application of potassium and mepiquat chloride on yield, quality and uptake of micronutrient of cotton K. Velmourougane: <i>Trichoderma-azotobacter</i> bio-film as a promising inoculant for enhancing plant growth and soil nutrient dynamics in cotton	Dr. A. R. Reddy
16/09/2017	Bio-Reviews -6C	
15.00-17.00hrs	Chair: Dr. B. M. Khadi, Former Dean (Post Graduate Studies), UAS, Dharwad (India) Co-chair: Dr. R. H. Balasubramanya, Former Head, CBPD, ICAR-CIRCOT, Mumbai (India) Speakers: B. G. Solanki: Problems and prospects of cotton cultivation in Gujarat Suman Bala Singh: MAGIC: A new genetic resource multiple trait improvement and QTL identification in cotton (<i>G. hirsutum</i>) T. R. Loknathan: Developmental breeding for jassid tolerance with high productivity and superior fibre quality in <i>G. hirsutum</i> Nandini Gokte Narkhedkar: Diverse bacteria associated with entomopathogenic nematode species-potential sources of insecticidal toxins V. S. Nagrare: Cotton pests scenario during last decade in India	Dr. H. B. Santosh

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	V. Mageshwaran: Recent advances in fermentation technology for value-addition to cotton stalks and cottonseed	
16/09/2017	CRISPR-CAS-9 and Biotech ideas for cotton -7A	
17.15-18.45hrs	Chair: Dr. P. K. Chakrabarty, ADG(PP), ICAR, New Delhi (India) Co-chair: Dr. R. Ramasami, Managing Director, Rasi Seeds, Attur (India) Speakers: Bhagirath Choudhary: Exciting prospects biotech cotton G. Balasubramani: Comparison of fiber genes expression in wild and lint-less mutant cotton K. P. Raghavendra: Identification and characterisation of <i>LIM</i> gene in <i>Gossypium arboreum</i> Joy Das: CRISPR/Cas technology for next-generation cotton: an overview B. R. Patil: RNA sequence mediated transcriptome analysis of <i>Gossypium hirsutum</i> genotypes for fibre strength I. S. Katageri: Application of CRISPR-CAS-9 system to develop gossypol free cotton seed in upland cotton, <i>Gossypium hirsutum</i> L.	Dr. K. P. Raghavendra Dr. H. B. Santosh
16/09/2017	Field Experiments for high yields -7B	
17.15-18.45hrs	Chair: Dr. B. G. Solanki, Cotton Scientist, Navsari Agri. Univ., Surat (India) Co-chair: Dr. D. Blaise, I/c Head, Crop Production, ICAR-CICR, Nagpur (India) Speakers: P. Nalayini: Stale seed bed technique and leguminous cover crops as tools in integrated weed management of irrigated cotton of southern India K. Sankaranarayanan: Effect of sowing time on productivity and profitability of <i>Bt</i> and non <i>Bt</i> cotton in climate change situation Rajesh S. Patil: Investigating plant breeding selection efficiency and performance trends in <i>Gossypium hirsutum</i> L.	Mr. Prabhulinga T
16/09/2017	HDPS cotton -7C	
17.15-18.45hrs	Chair: Dr. N. Gopalakrishnan, Ex- ADC(CC), ICAR, New Delhi (India) Co-chair: Dr. K. S. Baig, Associate Cotton Breeder, VNMKV, Nanded (India) Speakers: S. B. Deshmukh: Evaluation of compact genotypes of American cotton under High Density Planting System (HDPS) S. Manickam: Subiksha, the compact long staple cotton variety with high strength suitable for high density panting system in India K. B. Sankat: Evaluation of genotypes for High Density Planting under South Gujarat condition	Dr. A. R. Reddy
17/09/2017	8A: Sustainable technologies for high yields	
9.00-10.30 hrs.	Chair: Dr. V. Kumar, Ex. Head, Cotton Centre, Surat (India) Co-chair: Dr. S. Manickam, Pr. Sci., ICAR-CICR, Regional Station, Coimbatore Speakers: Md. Farid Uddin: Sustainable intensification of <i>Rabi</i> cropping through cotton + lentil Intercropping in Southern Bangladesh Sima Kundu: Selecting appropriate based cropping pattern for increasing cropping intensity in Bangladesh Md. Kamrul Islam: Improving for sustainable cotton production through enhanced resilience to climate change in Asia-Pacific region under the IAEA, Technical Cooperation RAS Project	Dr. A. R. Reddy Mr. Rakesh Kumar
17/09/2017	8B: Breeding for Desi Cotton Improvement	
9.00-10.30 hrs.	Chair: Dr. V. N. Waghmare, Director, ICAR-CICR, Nagpur (India) Co-chair: Dr. I. S. Katageri, Head, Biotechnology Department, UAS, Dharwad Speakers: Sandip A. Patil: Identification of best GMS lines having maximum cross boll	Dr. K. P. Raghavendra Dr. H. B. Santosh

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	<p>setting in <i>desi</i> cotton (<i>G. arboreum</i> L.)</p> <p>S. K. Verma: Improvement of <i>G. arboreum</i> cotton for fibre quality traits <i>vis-a-vis</i> seed cotton yield under north Indian conditions</p> <p>D. V. Patil: Evaluation of <i>Gossypium herbaceum</i> germplasm race <i>Wightianum</i> under different sowing dates in the central cotton zone of India</p> <p>V. N. Chinchane: Performance of long linted <i>Gossypium arboreum</i> genotypes for yield and fibre quality parameters under rainfed condition</p>	
17/09/2017	8C: Ginning and Quality Evaluation	
9.00-10.30 hrs.	<p>Chair: Dr. R. P. Kachru, Ex ADG(PE), ICAR, New Delhi (India)</p> <p>Co-chair: Dr. G. R. Anap, Former Head MPD & Consultant, ICAR-CIRCOT, Mumbai (India)</p> <p>Speakers:</p> <p>V. G. Arude: Integrated single locking cotton feeder cum cleaner for double roller gin</p> <p>P. K. Mandhyan: Industrial quality requirement of cotton <i>vis-à-vis</i> its availability-Indian scenario</p> <p>C. Sundaramoorthy: Contamination status of India cottons</p> <p>S. V. Ghadge: Design and development of cotton lint opener for preparation of samples in fibre quality testing</p> <p>Varsha Satankar: Force variation on beater shaft of double roller gin under different working condition</p>	<p>Dr. P. K. Mandhyan</p> <p>Dr. S. V. Ghadge</p>
17/09/2017	Open Forum- New Ideas & ICRA Activities	
11.00-12.30 hrs.	<p>Dr. K. R. Kranthi (Chair)</p> <p>Dr. M. S. Kairon (Co-Chair)</p> <p>Young Scientists Open forum New Ideas Panel</p> <p>ICRA-ACRDN Young Scientists Medal 2017</p> <p>Taking ICRA Forward: Dr Mohammad Negm</p> <p>Dr KR Kranthi (Chair), Dr MS Kairon (Co-Chair)</p>	<p>Dr. AR Reddy</p>
12.30-14.00 hrs.	<p>Valedictory Session</p> <p>Chair: Dr. Kavita Gupta , Textile Commissioner, Govt. of India</p> <p>Co-Chair: Dr. C. D. Mayee, President, ISCI, Mumbai</p> <p>Speaker: Dr. C. D. Mayee: Novel technologies –Today and Tomorrow</p> <p>Summary Recommendations by Dr M. V. Venugopalan and Dr C. Sundaramoorthy</p> <p>Valedictory Address by Dr. Kavita Gupta</p> <p>Vote of Thanks by Dr. M. V. Venugopalan</p>	<p>Dr. MV Venugopalan</p> <p>Dr. AR Reddy</p>