INTERNATIONAL RUBBER CONFERENCE 2012, KOVALAM INDIA

TECHNICAL SESSIONS

29 October, 2012

Wickham hall

Rubber Industry (Special Talks)

1. Demand-supply dynamics – Dato’ Dr. Kamarul Baharain bin Basir, General Secretary, ANRPC
2. An alternate approach to NR demand estimation in India: Tyre industry – Rajiv Budhraja
3. Indian Non-tyre rubber industry: An overview – Vinod Simon
4. Indian synthetic rubber industry : Perspective – Virendra Rathod
5. Quality issues related to sheet processing – S. Mohanachandran Nair

Rubber Technology (Invited Talks)

1. Recent advances in rubber technology – Stuart Cook
2. Soft and hard nanoparticles in natural rubber – Anil K. Bhowmick
3. Future challenges for rubber industry – Vinay Sharma
4. Non-linear viscoelasticity of rubber nano-composites - Sabu Thomas

Session – 1 CROP IMPROVEMENT

Lead talk

1. Genomic assisted crop improvement – applications and potential in tree improvements – Prof. M.S Sheshshayee

Contributed papers

2. Performance of RRIV clones in non-traditional rubber growing regions of Vietnam – Le Mau Tuy
3. Recombination breeding of Hevea basiliensis in India: Clones evolved from the 1983 hybridization programme – Alice John
4. Long term yield and growth performance of IRCA rubber clones(Hevea brasiliensis) in India – C.P. Reghu
5. Amazonian accessions of wild Hevea germplasm – a potential source of drought tolerance – M.A. Mercy

6. Identification of promising clones of Hevea for commercial cultivation in Tripura – P. Deepthy Antony

Session – 2  BIOTECHNOLOGY/ MOLECULAR BIOLOGY

Contributed papers

1. Production of mutants affected in hormone signalling to dissect defence mechanisms in Hevea brasiliensis: A case study – Pascal Motoro


4. Invitro micropropagation of Calopnium caeruleum for soil cover crop under rubber plantation – Wittaya Promme

5. Caffeic acid O-methyltransferase(COMT) gene of the phenyl propanoid pathway involved in resistance to Corynespora leaf disease in rubber(Hevea basiliensis) – Thakurdas Saha

6. Generation of Transcriptome resources in rubber(Hevea basiliensis) in response to Corynespora cassicola causing Corynespora leaf disease gene discovery and marker identification using NGS platform – C. Bindu Roy and Thakurdas Saha

7. De novo transcriptome sequencing of stress responsive transcripts of Hevea basiliensis – M.B. Mohamed Sathik

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Session – 3  RUBBER TECHNOLOGY

Contributed papers

1. Effect of modification technique on properties of blends of natural rubber and modified tyre crumbs – D.G. Edirisinghe

2. Preparation and mechanical property of epoxidised natural rubber from field latex -Adul Na Wichian and Nuchanat Na Ranong

3. Natural rubber nanocomposites from pristine and organically modified layered silicates by melt intercalation process – Siby Varghese


6. Use of coconut pith as biofiller for EPDM rubber composites – P.K. Ranjith

7. Silica reinforcement of epoxidised natural rubber of varying epoxy content – Jacob K. Varkey

8. Stable free radical assisted peroxide vulcanisation: Cure characteristics and vulcanisate properties – Benny George and Rosamma Alex

Session – 4    CROP HARVESTING AND POST-HARVEST

Contributed papers

1. Influence of age and girth at opening on rubber yield, biochemical and tapping panel dryness parameters of Hevea brasiliensis in determining tapping norms – Obouayeba Samuel

2. Impact of the reduction of the tapping frequency on the agronomic and physiological parameters of clone PB 260 of Hevea brasiliensis in the centre west of Cote d’Ivore in order to make up for the short age of tapping labour – Eric Francis Soumahin

3. Alternative tapping systems for RRIC 100 clone from opening – Eva Herlinawati and Kuswanhadi

4. Rainguarding is essential for introducing modern methods of latex harvest technology – K.R. Vijayakumar

5. Response of several IRR series Hevea clone to tapping system with stimulation – Kuswanhadi

6. Anaerobic digestion of rubber waste for production of renewable energy – A.I. Aigbodion

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SPECIAL TALKS

1. Expanding NR supply chain base for Indian rubber industry – A.K. Krishnakumar

2. Strategy for R&D driven open innovation(OI)- V.G. Dhankumar

3. Seeding rubber’s future – Michael R. Fraley

4. Climate Change, Ecological concerns and NR Cultivation - James Jacob

Grower Innovations

1. Production of best quality rubber planting materials – The Cheerakuzhy innovations – Jose Cheerakuzhy

2. Vadakkel nursery

3. Innovations of a large grower – Santhosh Kumar

Session – 5  CROP MANAGEMENT

Contributed papers

1. Rubber-based farming systems: In a challenging industry development and expansion in southern Philippines – Roger O. Bagaforo and Erine C. Camacho

2. Effect of high density planting on growth and yield of selected RRIM 2000 series – Zulkefly Sulaiman

3. Cropping pattern of coffee as rubber intercrop at farmer level in Muara Enim and Musi Rawas districts of South Sumatra province, Indonesia – M.J. Rosyid and Heru Suryaningtyas

4. Soil fertility evolution and correlation with leaf nutrient contents in rubber plantation in Hainan, China – Hua Yuagang

5. Adaptation of root trainer technology in different agro climatic environments – Francisco Andicoechea

6. Nutrient status of soil and leaves of immature rubber in the east coast of upper part of southern Thailand – Saichai Suchartgul and Somsak Maneepong

7. Correlation of some soil chemical properties, leaf chlorophyll contents and growth during immature phase of rubber tree – Krissada Sangsing

8. Effect of weeding frequency and fertilizer rates on the growth performance and budding success of Hevea rootstock seedling in a humid forest area of south eastern Nigeria – T.U. Eskhade

9. Addressing Sustainability of Natural Rubber Industry through Life Cycle Assessment - Zairossani Mohd Nor

10. Reducing the immature phase in natural rubber cultivation: Role of agro-management techniques – Sherin George

Session – 6  FARM MECHANIZATION

Contributed papers

1. Mechanized land preparation for Hevea planting and plant growth: A case study – Radha Lakshmanan

2. Mechanized agronomic practices in rubber plantations – Phebe Joseph

3. Evolutionary changes in spraying technology for disease management in rubber plantations – Jacob Mathew

4. Mechanization of ground spraying in rubber plantations against diseases – Jacob Mathew
Session – 7   PLANT HEALTH MANAGEMENT

Contributed papers

1. New diseases reported and maladies reached epidemic proportions in rubber plantations since late 20th century – C.K. Jayasinghe and K.M.S. Tennakoon

2. Integrated disease management of white root disease on Hevea rubber in Indonesia by using Trichoderma – based biofungicide, triko combi – Budi Setyawan

3. Surveillance of Corynespora leaf fall disease: Incidence and severity on natural rubber(Hevea brasiliensis) in certain hot spot areas in Kerala – Sadanand K Mushrif and Jacob Mathew

4. Environment and farmer friendly biodegradable rubber spray oil for controlling abnormal leaf fall disease – P.V. Joseph

5. Relative abundances of Mistletoe in Hevea plantation in Edo State, Nigeria – K.O. Orumwense

Session – 8   ECONOMICS

Contributed papers

1. An Economic Analysis of the socio-economic dimensions of participatory experimental trials on low frequency tapping(LFT) in Kerala – Binni Chandy

2. Trends in adoption of planting density in small holdings in traditional natural rubber growing regions of India – T. Siju

3. Uncertain price and segmentation of market as survival strategy: The case of latex processing industry in India – Joby Joseph and K. Tharian George

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Session – 9   CROP PHYSIOLOGY/ BIOCHEMISTRY

Contributed papers

1. A study on chlorophyll fluorescence, soil acidity, soil moisture contents and plant height in relation to different polybag size for rubber planting materials during transportation and field transplanting – Wan Zuraidi Sulaiman

2. Impact of salicylic acid treatment to enhance drought tolerance to nursery rubber plants (Hevea brasiliensis Muell. Agr.) when introducing them to Monaragala district in the intermediate zone of Sri Lanka - S.A. Nakandala

3. Hydrogen peroxide is essential for wound-induced secondary lacticifer differentiation via activating jasmonate biosynthesis in rubber tree(Hevea brasiliensis Mull.Agr.) – Wei-Min Tian
4. ATP concentration in latex as a biochemical marker for early evaluation of yield in Hevea brasiliensis – S. Sreelatha

5. Impacts of water stress on gas exchange, water relations and chlorophyll content in five Hevea brasiliensis clones – Noorliana Mohd Zan

6. Hevea B-serum proteome profiling using liquid chromatography mass spectrometry – Norazreen Abd Rahman

7. Drought tolerance in transgenic MnSOD Hevea brasiliensis in a dry humid environment – K.V. Sumesh

**Session – 10 ECOSYSTEM PROCESS**

**Contributed papers**

1. A Study on carbon sequestration in various plant parts of two Hevea clones planted in four planting densities – Mohd. Nasaruddin bin


3. Seasonal changes in xylem sap flow rate in mature rubber trees – K. Annamalainathan

**Session – 11 GEOSPATIAL TECHNOLOGY**

**Contributed papers**

1. Assessing agricultural drought in natural rubber plantations using MODIS/Terra satellite data – S. Meti

2. Application of light detection and ranging (LIDAR) technology for field monitoring – Safiah Atan

3. Digital image recognition system for rubber clones produced in Malaysia – Ong Chin Wei

4. Distribution of Hevea brasiliensis in South and North East India: Preliminary results with maximum Entropy Spices distribution model – Debabrata Ray

5. Retrieving of leaf area index for rubber plantation using HJ-1A/1B CCD data – Bangqian Chen

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**Session -12 EXTENSION**

**Contributed papers**

1. AEC – Challenges and opportunities for Thailand rubber industries – M. Suthee Intraskul

2. The impact of extension approaches for enhancing productivity of NR – The Indian experience with special reference to clone RRII 105 – B. Rajeevan
3. Participatory rubber extension in Tripura – Case study of M/s. Manimalayar Rubbers Pvt. Ltd. – Arunabha Majumdar

4. Remote Plantation Management (RPM) of Karimplavelil Rubber Plantations, Punalur, Kerala: A case study – S. Usha Rani

5. Rubber Clinic: A distance diagnostic and information system for the management of pests and diseases of natural rubber – Jacob Mathew

PLENARY SESSION