



CTRI

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# Newsletter

**CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY - 533 105**

## INSTITUTE RESEARCH COMMITTEE MEETINGS

The Institute Research Committee (IRC) Meetings were held at CTRI, Rajahmundry from 9-12<sup>th</sup> July, 2007 under the presidency of Prof. M. Mahadevappa, Former Chairman, ASRB, New Delhi. The Chief Guest and the Chairman, Tobacco Board, Dr. J. Suresh Babu lighted the lamp and inaugurated the meetings. Dr. V. Krishnamurthy, Director, CTRI and Chairman, IRC gave a detailed power point presentation about the Global Tobacco Situation. He also explained the future thrusts in tobacco research and specified that the efforts will be made to develop

high yielding varieties with superior quality and reduction in harmful constituents. In the IRC Meetings, research work carried out by the individual scientists was presented and discussed in detail.



Dr. V. Krishnamurthy, Dr. J. Suresh Babu, Prof. M. Mahadevappa and Dr. K. Nagarajan in the inaugural session of IRC Meetings

## XVIII TOBACCO WORKSHOP OF AIRNPT

The XVIII Tobacco Workshop of All India Network Research Project on Tobacco (AINRPT) was held at Anand Agricultural University (AAU), Anand from 11<sup>th</sup> to 12<sup>th</sup> August, 2007. Prof. M. C. Varshneya, Vice-Chancellor, AAU presided over the function. The Chief Guest, Dr. K. C. Jain, ADG (Commercial Crops), ICAR, New Delhi has inaugurated the Workshop by lighting the lamp and delivered the inaugural address. Dr. V. Krishnamurthy, Director, CTRI recounted the history of AICRP/ AINRP on Tobacco and emphasized on the alternative uses of tobacco viz., seed oil, edible proteins, pure nicotine and solanesol derivatives, improving the productivity and reducing the cost of cultivation.

Dr. P.R.S. Reddy, Nodal Officer, AIRNPT welcomed the guests and delegates to the plenary session. Shri Bhupendrasinhji Chudasama,

Hon'ble Minister for Agriculture and Cooperation, Government of Gujarat was the Chief Guest. Prof. M.C. Varshneya, Vice-Chancellor, AAU, Anand presided over the function. Dr. R.C. Maheswari, Vice-Chancellor, S.K.D. Agricultural University, Sardarkrushinagar was the Guest of Honour. ADG(CC), ICAR, New Delhi, Director, CTRI, Rajahmundry and officials of AAU, Anand have graced the plenary session. A total of 80 delegates from all over India participated and deliberated on Tobacco projects in the Workshop.



Dr. A.R. Pathak, Dr. V. Krishnamurthy, Prof. M.C. Varshneya, Dr. K.C. Jain, Dr. P.R.S. Reddy and Dr. A.D. Patel in the inaugural session of AINRPT Workshop

## RESEARCH HIGHLIGHTS

### CTRI, Rajahmundry

- ❑ A single gene difference was found for nicotine content between A145 and GT7. Leaf protein content was found to be polygenic in nature.
- ❑ The cultures of *Spodoptera exigua* were established on *Amaranthus* and chickpea based artificial diet. *Corcyra cephalonica* was established on sorghum.
- ❑ The changes in the population of the predator *Nesidiocoris tenuis* could be attributed to the weather parameters to an extent of 93.4%. Rainfall contributed positively to their abundance whereas minimum temperature had a significant negative influence.
- ❑ Foliar application of 0.2% manganese sulphate and exogenous application of 0.25% ascorbic acid resulted in 50.2% and 46.5% reduction in TSNA, respectively at 30 days after spray in agency burley tobacco.
- ❑ Plant growth and leaf expansion were better in 25:75 organic-inorganic ratio. Application of vermicompost @ 2t/ha was promising.
- ❑ Application of *Pseudomonas fluorescens* @ 10 g/m<sup>2</sup> in combination with neem cake @ 400 g/m<sup>2</sup> was found promising against root-knot nematodes in FCV tobacco nursery.
- ❑ The tobacco seed oil content estimated by NMR technique varied from 35 to 37 % in different treatments.

## TRANSFER OF TECHNOLOGY

### CONFERENCES/ TRAININGS/ WORKSHOPS ATTENDED

- All the Principal Investigators & Scientists associated with AINRPT projects from CTRI & Network Centres have participated and presented their project works in the XVIII AINRPT Workshop held at AAU, Anand from 11.8.2007 to 12.8.2007.
- All the Scientists and Technical Officers of CTRI RS, Hunsur attended the training programme on "Post Harvest Product Management in FCV tobacco of KLS" organized under the core team activity at CTRI RS, Hunsur on 14.8.2007.
- Dr. U. Sreedhar and Dr. K. Sarala, Sr. Scientists attended the National Seminar on "Advances in Environmental Biotechnology" at Vuyyuru from 16.8.2007 to 18.8.2007.
- Dr. C.V. Narasimha Rao, Principal Scientist and Sri C.V.K. Reddy, Technical Officer attended the training programme on "Intelligent Reporting System (IRS)" at NAARM, Hyderabad from 30.8.2007 to 31.8.2007.
- Sri B.S.N. Reddy and Sri K. Sessa Sai, Technical Officers attended the training programme on "Tobacco Nursery Management" at Jeelugumilli on 7.9.2007.
- Dr. P. Harishu Kumar, Principal Scientist & Head I/c, Crop Production and Dr. U. Sreedhar, Sr. Scientist attended the "Farmers Meeting on Light Soil Burley Tobacco Crop: Prevalence of Pests & Diseases" at Narsipatnam and Jeddangi from 8.9.2007 to 9.9.2007.
- Dr. J.V. Prasad, Sr. Scientist and Sri I.V. Subba Rao, Technical Officer attended the "Farmers Meeting on Light Soil Burley Tobacco Crop: Prevalence of Pest & Diseases" at Jaggampeta,

Gokavaram and Sankavaram on 10.9.2007.

- Sri S. Gunneswara Rao, Scientist (SG) and Sri I.V. Subba Rao, Technical Officer attended the "Farmers Meeting on Light Soil Burley Tobacco Crop: Prevalence of Pest & Diseases" in West Godavari district on 13.9.2007.
- Sri T. Krishnamurthy, Technical Officer attended the training programme on "Tobacco nursery management" at Chityala Village on 13.9.2007.
- Dr. S. Amarnath, Principal Scientist & Head I/c, CTRI RS, Dinahata participated in the Scientific Advisory Committee meeting of the KVK at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar on 18.9.2007.
- Dr. M.M. Shenoi, Dr. M. Mahadevaswamy, Sri K.N. Subrahmanya, Sri C. Mahadeva have attended the "Farmers' training programme on Post-Harvest Product Management (PHPM) in FCV tobacco" during the crop season.

### PUBLICATIONS

- Arya, R.L. and K. Deo Singh (2006). **Modern techniques of tobacco cultivation** (Hindi), published by Concept Publishing Company, Mohan Garden, New Delhi.
- Krishna Reddy, S.V., S. Kasturi Krishna and V. Krishnamurthy (2006). **Productivity, quality and economic returns in FCV tobacco (*Nicotiana tabacum*) with conjunctive use of organic manures and nitrogen under irrigated Alfisols of Andhra Pradesh**. Tobacco Research 32(1):25-31.
- Roy, S., C.V.K. Reddy and G.L.S. Sireesha (2006). **Antagonistic potential of a few soil fungi**

**against damping off of tobacco under greenhouse conditions**. Tobacco Research 32(1):17-20.

- Sarma, Y.N., B. Bisoi, H.K. Mahopatra and J.A.V. Prasad Rao (2006). **Effect of organic manures on yield and quality of pikka tobacco in Orissa**. Tobacco Research 32(1):21-4.
- Sreedhar, U. and S. Sitaramaiah (2006). **Life tables of budworm, *Helicoverpa armigera* on flue-cured Virginia tobacco**. Tobacco Research 32(1):32-5.
- Padmavathy, D., C.V. Narasimha Rao and K. Somasekhar Rao (2006). **Nitrate content in Indian tobacco**. Tobacco Research 32(1):36-8.
- Chandrasekhara Rao, C. and V. Krishnamurthy (2007). **Quantity-Intensity relationships of potassium in Flue-cured Virginia tobacco soils of Khammam district, Andhra Pradesh**. Journal of Indian Society of Soil Science 55(2): 212-4.
- Krishnamurthy, V. (2007). **Steady increase in exports**. The Hindu Survey of Indian Agriculture, 183-4.
- Rao, C.V.N. and V. Krishnamurthy (2007). **High-value phytochemicals and value-added tobacco products**. Indian Farming 57(4):39-40.
- Rao, C.V.N. and V. Krishnamurthy (2007). **Tobacco Plant: A source of pharmaceutical and industrial products**. Invention Intelligence 42(4):3-12.
- Roy, S., K. Deo Singh, R.L. Arya and S. Amarnath (2007). **Dharla - A high yielding variety of Motihari tobacco**. Indian Farming 57(2):31-4.
- Sudhakar, R., Y. Subbaiah and V. Krishnamurthy (2007). **Banana Fibre Extractor**. Indian Horticulture 52(4): 29.

**RADIO TALKS**

- ❑ "Women empowerment programmes through KVK" by Smt. N. Aruna Kumari, Tech. Officer on AIR, Visakhapatnam on 26.7.2007.
- ❑ "Improved methods for growing tobacco nurseries" by Dr. S.V. Krishna Reddy, Sr. Scientist on AIR, Visakhapatnam on 28.7.2007.
- ❑ "High yielding varieties of FCV tobacco" by Dr. R.V.S. Rao, Principal Scientist & Head I/c, Crop Improvement on AIR, Visakhapatnam on 23.8.2007.
- ❑ "Package of practices for *Bhendi* cultivation" by Smt. J.V.R. Satyavani, Tech. Officer on AIR, Vijayawada on 4.9.2007.
- ❑ "Palmyrah fibre industry –A profitable venture" by Sri R. Sudhakar, Tech. Officer on AIR, Vijayawada on 10.9.2007.

- ❑ "Management of tobacco Nursery pests and diseases" by Dr. C.A. Raju, Principal Scientist & Head, Crop Protection on AIR, Visakhapatnam on 14.9.2007.
- ❑ "Fodder grass production in *Godavari Lanka* soils" by Sri S. Jitendranath, Tech. Officer on AIR, Vijayawada on 15.9.2007.
- ❑ "Alternative uses of tobacco" by Dr. C.V. Narasimha Rao, Principal Scientist on AIR, Visakhapatnam on 16.9.2007.
- ❑ "Importance of fruits and vegetables for health" by Smt. V.V. Lakshmi Kumari, Tech. Officer on AIR, Vijayawada on 23.9.2007.
- ❑ "Rearing of different breeds in backyard poultry" by Dr. P.V.V.S. Siva Rao, Tech. Officer on AIR, Vijayawada on 25.9.2007.

**RETIREMENTS**

- ❑ Sri D. Gnana Kumar, Technical Officer T-6, CTRI, Rajahmundry retired from Council's service on 31.7.2007.
- ❑ Smt. Papamma, SS Gr.I, CTRI Research Station, Hunsur retired from Council's service on 21.9.2007 A.N. on invalidation.
- ❑ Sri P. Manickam, Technician, T-4(Driver), CTRI Research Station, Veda sandur retired from Council's service on 30.9.2007.

**OBITUARY**

- ❑ Sri Gopala, Technician T-2 (Driver), CTRI Research Station, Hunsur expired on 10.07.2007.
- ❑ Sri Md. Nur Mohammad Miah, SS Gr.II, CTRI Research Station, Dinahata expired on 23.7.2007.

**HINDI FORTNIGHT CELEBRATIONS**

Hindi Fortnight Celebrations were organized at the Institute from 13.9.2007 to 27.9.2007. Dr. V. Krishnamurthy, Director, CTRI inaugurated the celebrations by lighting the lamp on 13.9.2007. Officers/ Staff of CTRI participated in various events/ competitions in Hindi during the fortnight. The valedictory function was organized on 27.9.2007 and Sri R.M.M. Krishna, ITS, General Manager, BSNL, Rajahmundry was the Chief Guest and Dr. K. Deo Singh, Former Director, CTRI was the special guest and Dr. V. Krishnamurthy presided over the function. Dr. Krishnamurthy said that Hindi is the link language of the people speaking different languages in various states in the country and one can easily move anywhere if he knows Hindi. He also said that the Govt. is making special efforts for the development and spread of Hindi as the National Language. Sri R.M.M. Krishna, Chief Guest said that Hindi will help to show the feeling of unity among the people of India and

appreciated the Hindi Fortnight Celebrations conducted by CTRI for bringing the power of unity in all the Indians. Dr. K. Deo Singh informed that Hindi has gained special attention and treatment. On this occasion, the message sent by Sri Sharad Pawar, Hon'ble Union Minister for Agriculture was read by Sri Ch. Sri Rama Rao, Member-Secretary, OLIC. Sri R.M.M. Krishna distributed prizes to the Officers/ Staff who have participated and won the prizes in various competitions held during the fortnight.



Sri Ch. Srirama Rao, Dr. V. Krishnamurthy, Sri R.M.M. Krishna, Dr. K. Deo Singh and Sri G.G.Harakangi in the Valedictory function of the Hindi Fortnight Celebrations

**Golden Jubilee Celebrations of CTRI RS, Hunsur**

Golden Jubilee Celebration and Farmers' Day programme was organized at CTRI Research Station, Hunsur on 29.08.2007. Prof. M. Mahadevappa, Member, ICAR Governing Body, New Delhi, Dr. K. C. Jain, ADG (Commercial Crops), ICAR, New Delhi, Dr. V. Krishnamurthy, Director, CTRI, Rajahmundry, Sri G. T. Devegowda, Hon'ble Minister for Co-operation, Govt. of Karnataka and I/c Mysore District, Sri C. H. Vijayashankar, Hon'ble MP from Mysore were the guests of honour. More than 500 farmers and members from Tobacco Board and Trade & Industry have attended the function.



Dr. V. Krishnamurthy, Director, CTRI inaugurating the Golden Jubilee pylon

## MEETINGS / VISITS OF DR. V. KRISHNAMURTHY, DIRECTOR, CTRI

- Attended the Directors' Conference of ICAR Institutes at the NASC Symposium Hall, New Delhi from 16.07.2007 to 18.07.2007.
- Attended the 122<sup>nd</sup> Meeting of the Tobacco Board at Hyderabad on 28.07.2007.
- Chaired the Fifth meeting of Tobacco and Tobacco Products Sectional Committee, FAD-4, at the Bureau of Indian Standards (BIS), Manak Bhavan, New Delhi and presented "An overview of the tobacco situation and research activities" on 06.08.2007.
- Attended the Zonal Research and Extension Advisory Council Meetings of North Coastal Zone of Andhra Pradesh for Rabi-2007 at the Zilla Parishad Hall, Srikakulam, and presented the Production Technology for Irrigated Natu Tobacco on 08.08.2007.
- Visited the tobacco growing zones in Borsad area and Nicotine Sulphate Factory at Dakor (Anand) in Gujarat on 13.08.2007.
- Visited the Directorate of Oilseeds Research, Hyderabad and had technical discussions with Director, DOR in connection with the Vision-2025 document on 14.08.2007.
- Attended the meeting on 'Alternative uses of Tobacco' convened by the Chairman, Tobacco Board in the office of M/s. Metahelix Life Sciences Pvt. Ltd., Bangalore and made the presentation on "An overview on Alternative Uses of Tobacco" on 17.08.2007.
- Inspected the CTRI Research Station, Hunsur, Karnataka and Research Farm fields and reviewed the research project works on 22.08.2007.
- Attended the Tobacco Institute of India 'FCV Tobacco Farmers Award Ceremony' organized by the Tobacco Institute of India at Mysore on 23.08.2007.
- Attended the Golden Jubilee Celebrations of CTRI Research Station, Hunsur and inspected the farmers' fields on 29.08.2007.
- Attended the National Seminar on "New Frontiers in Drug Design and Synthesis" as Chief Guest and inaugurated the seminar in the Department of Chemistry, Government (Autonomous) College, Rajahmundry on 18.9.2007.

### SEMINAR ON SOY PRODUCTS PROMOTION

A state-level seminar was organized by the KVK of CTRI on "**Soy Products Promotion and Entrepreneurship Development**" in collaboration with the American Soybean Association (ASA) - International Marketing on 6<sup>th</sup> September, 2007 at CTRI, Rajahmundry. Dr.S.D.Kulkarni, Project Director, Soybean Processing and Utilization Centre- CIAE, Bhopal graced the occasion as the Chief Guest. Dr.V.Krishnamurthy, Director, CTRI presided over the function. Dr.Y.Subbaiah, Programme Coordinator, KVK was the seminar convener. Dr.N.Sudhakar, Zonal Coordinator (Zone-V), Z.C. Unit for KVK, Hyderabad; Dr.T.Yellamanda

Reddy, Associate Director of Research, Lam, ANGRAU, Guntur; Sri K.V.Satyanarayana, AGM, NABARD, Sri I.Ramakrishna Murthy, Joint Director of Agriculture, E.G.Dist.; Dr.J.B. Sastry and Dr.Padmaja Sekhar, Consultants, ASA participated in the seminar.



Dr. Y. Subbaiah, Sri K.V. Satyanarayana, Dr. T. Yellamanda Reddy, Dr. S.D. Kulkarni, Dr. V. Krishnamurthy, Sri I. Ramakrishna Murthy and Dr. Padmaja Sekhar on the dais

### ECCS GOLD MEDALS

CTRI Employees Cooperative Credit Society Ltd. (ECCS) presented the gold medals to Kum. C. Mounica and Kum. Ch. Pratyusha, X class and Kum. K. Padmini Sreedevi and Kum. R. Namratha, Intermediate - the children of staff - for securing maximum marks in the public examinations held during 2007. The medals were presented by Dr. V. Krishnamurthy, Director, CTRI in the function organized on the 15<sup>th</sup> August, 2007.



Dr. V. Krishnamurthy, Director, CTRI with the recipients of gold medals

### KRISHI VIGYAN KENDRA

#### Training Programmes

- A total of 37 training programmes were conducted for 955 farmers, farm women and rural youth in agriculture and allied fields.

#### Farmers Meet

- A farmers meet was organized at KVK, Kalavacharla on 27-8-07 and a total of 60 farmers and farm women have participated. Dr. V. Krishnamurthy, Director, CTRI presided over the function. Seven units of Gramapriya birds (5 birds in each unit) were presented to farm women of Ealakolanu village under the FLD programme.

#### Farmers - Scientists interface

- A participatory interface meeting was organized by KVK, CTRI in KVK adopted village Kamujuvari lanka, Kothapeta mandal, East Godavari District on 19.09.07. A total of 100 farmers participated. Improved seeds of vegetables were supplied to FLD beneficiaries.

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