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# Newsletter

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## STAFF RESEARCH COUNCIL MEETINGS



Dr. K. Deo Singh addressing the gathering

The Staff Research Council (SRC) Meetings were held from 2 - 5<sup>th</sup> August, 2005 at CTRI, Rajahmundry. Dr. P. Dayachari, IAS, Chairman, Tobacco Board was the Chief Guest on the occasion. The guests of honour included Dr. Y. S. Ramakrishna, Director, CRIDA, Hyderabad, Dr. Dilip K. Arora, Director, NBAIM, Maunath Bhanjan and Dr. J. Suresh Babu, IAS, Executive Director, Tobacco Board. Heads of Divisions and Heads of Research Stations, Scientists, Technical Officers, Retired Scientists of CTRI and Scientists from ITC-ILTD and GPI attended the inaugural function on 2-8-2005. Dr. Dayachari inaugurated the meetings by lighting the lamp.

In his inaugural address, Dr. K. Deo Singh, Director, CTRI explained the major tasks before the tobacco researchers; global and national tobacco scenario and identified the immediate priorities for tobacco research. He briefly described the present tobacco situation in Brazil and China. Dr. Deo Singh informed the various measures undertaken by CTRI to reorient its research priorities and activities.

Dr. Dayachari complimented the scientists of CTRI for reorienting their priorities to address current and future needs of Indian tobacco. Due to the concerted efforts made by the Board along with CTRI, tobacco industry, manufacturers and traders, the entire produce could be sold in record time, thereby fetching an additional income of Rs.74 crores to tobacco farmers. He requested the Director, CTRI to provide services of identified scientific experts for initiating the project

'Expansion of tobacco to North Eastern areas for production of flavourful tobacco.' Dr. Y. S. Ramakrishna, Director, CRIDA, suggested various measures for addressing the challenge of doubling the tobacco exports. Dr. Arora appealed to scientists to generously contribute new microbes/ strains to the repository at the Bureau for maintenance and exploitation. He made a detailed presentation on genomics, including the scope, techniques and the various applications of genomics in agriculture. A total of 27 new projects were approved in SRC for the year 2005-2006 after thorough discussion. On this occasion CTRI Cultural Forum arranged cultural programmes at the Kalamanch in CTRI quarters. Students of Vijaya Sankara Music and Dance School, Rajahmundry gave performances of Karnataka Vocal and Kuchipudi Dances to entertain the delegates of SRC.



Kuchipudi dance performance



Recital of Tyagaraja Krithi

## RESEARCH HIGHLIGHTS

- ❑ Tray nursery seedlings raised with coir pith media or coir pith + FYM media (1:1 and 2:1) combination resulted in minimum gaps (1-2%) in field as compared to conventional direct sown seedlings (>8%) leading to 6.7% increase in cured leaf yield and TGE over conventional nursery seedlings under Karnataka Light Soils (KLS) conditions.
- ❑ In tray nursery, vermi-compost alone or in combination with coir pith at different ratios (1:1; 1:2 and 1:3) was found to be equally effective in terms of seedlings biomass, growth characters and root knot incidence in Karnataka Light Soils.
- ❑ Application of vermi-compost @ 2 kg/m<sup>2</sup> to seed beds was found more beneficial compared to FYM @ 4 kg/m<sup>2</sup> in terms of seedling growth and reduction in root-knot nematode incidence at CTRI Research Station, Hunsur.
- ❑ Preliminary results revealed that application of antagonistic bacterium *Pseudomonas fluorescens* in talc formulation (pf. 1 strain) @ 5 g/m<sup>2</sup> in FCV tobacco nursery was effective in reducing root knot index and nematode soil population by 36.7 and 53.1 % respectively over check. There is an increase of healthy transplants by 58.4 % over check under KLS conditions.
- ❑ Application of 120 kg K<sub>2</sub>O/ha through soil (100 kg/ha) and foliar application (20 kg/ha) to the variety 'Rathna' resulted in maximum cured leaf yield and TGE compared to the recommended dose of 100 kg K<sub>2</sub>O/ha through soil application under KLS conditions.
- ❑ Integrated weed management practice consisting of Glyphosate application (3 weeks before sowing) @ 1.25 kg a.i./ha + APSA (Adjuvant) along with ammonium sulphate @ 10 g/ litre spray solution coupled with one hand weeding at 30 days after sowing gave effective control of all the weeds resulting in maximum weed control efficiency and higher transplants compared to other weed control treatments, during the third year nursery season.
- ❑ A study on evaluation of drip irrigation for FCV tobacco in the Alfisols for two years revealed that drip irrigation on alternate days with drippers on all ridges gave significantly higher cured leaf yield (1981 kg/ha) and grade index (1386 kg/ha) with higher water-use efficiency of 6.4 kg cured leaf and 4.63 grade index per ha mm with an additional gross income of Rs.7,500/ha.

## XVII WORKSHOP OF AINRPT



The XVII Tobacco Workshop of All India Network Research Project on Tobacco was held at University of Agricultural Sciences (UAS), Dharwad from 18th to 19th August 2005. Dr. S. Sheelavantar, Vice-Chancellor, University of Agricultural Sciences, GKVK, Bangalore was the Chief Guest and Dr. S. A. Patil, Vice-Chancellor, University of Agricultural Sciences, Dharwad presided over the function. Dr. K.C. Jain, Assistant Director General (Commercial Crops), Indian Council of Agricultural Research was the Guest of Honour. Dr. K. Deo Singh, Director, Central Tobacco Research Institute, Dr. S. Lingappa, Director of Research, University of Agricultural Sciences, Dharwad, Dr. P.R.S. Reddy, Principal Scientist and Nodal Officer, AINRPT, CTRI, Dr. R.R. Hanchinal, Associate Director of Research, University of Agricultural Sciences, Dharwad, Dr. B.N. Bhat, Retired Scientist and Shri D. Kotval and Mrs. Laxmi Bai, Members, Board of Regents, UAS, Dharwad were the dignitaries present on the dais. Principal Investigators, Officers-in-Charge of CTRI Research Stations and Scientists of AINRPT, Officials of UAS, Dharwad, Research and Development Manager, ITC Ltd. - ILTD Division attended the Workshop. A total of 63 delegates from all over India participated in the Workshop.

The following recommendations were made during the workshop: (1) Bidi tobacco variety, NBD 43 presented by Nipani Centre was recommended for consideration for release by Karnataka State Variety Release Committee, (2) FCV tobacco variety CY 135 was recommended for consideration for release by Andhra Pradesh State Variety Release Committee, (3) For tobacco nursery a seed rate of 8 kg/ha was recommended for *rustica* tobacco in Gujarat. (4) For maintaining the *rustica* tobacco seed viability, seed storage in iron brass was advocated, (5) Usage of imidacloprid for controlling aphids and (6) Drenching of bidi tobacco nursery with carbosulfan for the control of nematodes.

## TRANSFER OF TECHNOLOGY

### TRAININGS/ LECTURES

- Dr. Y. Subbaiah, Dr. J.V. Prasad and Dr. S. Krishna Reddy imparted training on nursery management, pest and disease control to farmers of Budhapuram, Chityala and Devarapalli arranged by Tobacco Board, Auction Floor, Devarapalli on 14.9.2005.

### CONFERENCES/ TRAININGS/ WORKSHOPS

- Dr. M. Mahadevaswamy, Sr. Scientist attended the short term course on 'Strategies for efficient harvesting and recycling by rain water in relation to the improvement of water-use-efficiency in dry land crops' at UAS, Bangalore from 14-23 Sept., 2005.
- Dr. M.M. Sheno, Head, CTRI Research Station, Hunsur participated in the workshop on 'Vermi-compost technology' conducted by core committee at U.G. Hally, Hunsur on 2<sup>nd</sup> Sept., 2005.
- Sri M. Sannibabu, Principal Scientist attended the National Workshop on 'Implementation of Hariyali Guidelines' at NIRD, Hyderabad on 17<sup>th</sup> Aug., 2005.
- Dr. Y. Subbaiah, Sr. Scientist attended ZREAC meetings of Krishna - Godavari zone for Rabi - 2005 on 24 - 25th Aug., 2005 at Vijayawada.

### PUBLICATIONS

- Deo Singh, K., S. Roy, R.L. Arya and S. Amarnath. Dharla - A promising Motihari tobacco variety. ICAR News, Jan.-Mar. 2005, p.17.
- Sumankalyani, K. and K. Deo Singh. గ్రామీణ మహిళలు - వ్యవసాయ రంగములో వారి పాత్ర Agrigold Swarna Sedyam, Sept. 2005

- Sumankalyani, K., T.R. Rayulu and K. Mayuri. Women in Agriculture - A socio economic perspective. Indian Res. J. Ext. Edu. 5(2&3), 152-4, 2005.

### RADIO TALKS

- బిల్లీ పాగాకును అశించే చీడ పీడలు - నివారణ Dr. P. Venkateswarlu on All India Radio, Visakhapatnam on 20.7.2005.
- గ్రామీణ మహిళలకు స్వయం ఉపాధి కార్యక్రమాలు (Income generation activities) by KVK by Sri R. Sudhakar on All India Radio, Visakhapatnam on 22.7.2005.
- చిరుధాన్యాలలో పోషక విలువలు (Nutritive values of millets) by Smt. N. Aruna Kumari on All India Radio, Vijayawada on 8.8.2005.
- పోషక విలువలు తగ్గకుండా వంట చేయు పద్ధతులు (Proper cooking methods to minimize nutrients loss) by Smt. V.V. Lakshmi Kumari on All India Radio, Vijayawada on 19.8.2005.
- లాభదాయక పశువుల పెంపకానికి మౌలిక సదుపాయాలు (Infrastructure facilities required for profitable dairy farming) by Dr. P.V.V.S. Siva Rao on All India Radio, Vijayawada on 26.8.2005.
- పాగాకు నారుమళ్ళలో తెగుళ్ళు by Dr. C.A. Raju on All India Radio, Visakhapatnam on 28.8.2005
- టర్కీ కోళ్ళ పెంపకము (Turkey Rearing) by Dr. B. John Babu on All India Radio, Vijayawada on 29.8.2005.
- పాగాకు వంటలో అవశ్యక పోషకాల ప్రాముఖ్యత by Dr. M. Anuradha on All India Radio, Visakhapatnam on 8.9.2005.
- అధిక దిగుబడినిచ్చే వర్షినియా పాగాకు పంగడాలు by Dr. P.V. Venugopala Rao on All India Radio Visakhapatnam on 30.9.2005.

### HUMAN RESOURCE DEVELOPMENT

The following Technical Staff completed their M. Sc. (Botany):

- Smt. K. Santi Nandivelu, T-4
- Mr. K. Sesha Sayi, T.O. T-5
- Mr. J. Sivasai, T.O. T-5

**Congratulations**

### AWARDS

- Dr. S. Roy, Sr. Scientist, CTRI Research Station, Dinhatata was awarded the 'Hari Om Trust Award' for the biennium 2002-2003 along with B.P. Singh and P.H. Singh (Central Potato Research Institute, Simla).
- CTRI Credit Co-Operative Society gave gold medal awards to the children of CTRI Staff on 15.8.2005 for securing maximum marks among CTRI Staff children in 2005.
  - Kum. K. Padmini Sridevi, D/o. Sri K. Ganesh babu. **(X class-First)**
  - Kum.R. Namratha, D/o. Smt. Y. Rama Bai **(X class-Second)**
  - Mr. P. Rama Sanjeev, S/o. Smt. P. Suchitra. **(Intermediate-First)**
  - Mr. G. G. Pradeep, S/o. G.H.M. Mohanacharyulu **(Intermediate-Second)**

### RETIREMENTS

- Sri M. Veeraiyah, S.S.Gr.II, CTRI, Rajahmundry retired on 31.7.2005.
- Sri Dase Gowda, S.S.Gr.IV, CTRI RS, Hunsur retired on 31.7.2005.
- Sri M.V.B. Madhava Rao, Assistant, CTRI, Rajahmundry retired on 31.8.2005.
- Smt. K. Saraswathi, S.S.Gr.II, CTRI, Rajahmundry retired on 31.8.2005.
- Sri Khundru Barman, S.S. Gr.I, CTRI RS, Dinhatata retired on 30.9.2005.

## HINDI FORTNIGHT CELEBRATIONS

Hindi Fortnight was organized in CTRI from 14.9.2005 to 29.9.2005. Dr. K. Deo Singh, Director, CTRI inaugurated the celebrations by lighting the lamp on 14.9.2005. Staff of CTRI participated in various competitions in Hindi. The closing ceremony was organized on 15.10.2006. Sri Y.V. S. Narayana, Vice-Chairman, OLIC welcomed the gathering. Sri Ch. Sree Rama Rao, Secretary, OLIC read out message received from Sri Sharad Pawar, Hon'ble Union Minister for Agriculture, Dr. Mangala Rai, Secretary DARE and D.G., ICAR. Dr. K. Deo Singh presided over the function. Sri Anil Majumdar, General Manager, ONGC was the Chief Guest. Dr. Singh in his presidential address said that print and electronic media is playing an important role in the propagation of Hindi. He also said that the popularized words of other languages may also be adopted/ used while talking in Hindi so that Hindi will become easy to all. Sri Anil Majumdar said that knowledge of Hindi is a must for each and every one as most of the people throughout the country can understand the same while talking. He also said practice is required to learn any language. Hindi Fortnight should be organized jointly by ONGC, GAIL and CTRI in future in Rajahmundry, just as safety week is organized by ONGC, GAIL etc. in Assam every year, so that officers and staff will participate large in numbers. Sri Majumdar distributed prizes to the staff who participated in various competitions. Smt. JVR Satyavani, Member, OLIC proposed vote of thanks.



Dr. K. Deo Singh addressing the gathering



Sri Anil Majumdar, General Manager, ONGC delivering the message

## KRISHI VIGYAN KENDRA

- A total of 1067 farmers, farm women, rural youth and extension functionaries were trained. Six long duration programmes such as coir door mat making, PHT of fruits and vegetables, bakery products, quilt bag making etc. and two training programmes on Fodder Production technologies and INM in cashew were conducted.
- Fifty women were trained in 'Coir rope making' at Coir Board Centre, Dowleswaram, E.G. Dist., A.P., on 7.7.2005.
- In collaboration with Community Food & Nutrition Extension Unit (Ministry of

Human Resource Development), Visakhapatnam, training programmes were organized in 'Nutrition and health education' for adolescent girls in 12 mandals of E.G. Dist., A.P. from 19.9.2005 to 23.9.2005. A total of 750 adolescent girls, were benefited in these programmes.

- Thirteen rural youth from East Godavari district were trained in 'Veterinary first-aid and Artificial Insemination' during July - Sept., 2005.
- In collaboration with DRDA, Warangal, Chittore and Hospeta (Karnataka), four vocational training programmes of one month duration (April, 2005 -

August, 2005) on "Banana fibre extraction, coir rope making and coir door-mat making" were organized at Hospeta, Madurai and Chittore.

