



# समाचार Newsletter



## CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY

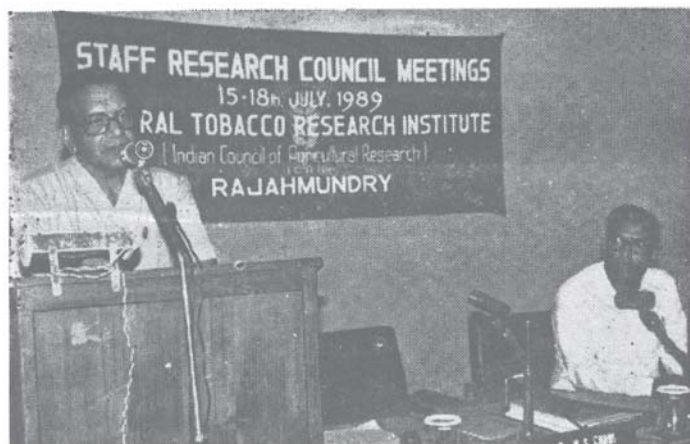
Vol. 11

JULY—SEPTEMBER 1989

No. 3

### MAJOR EVENTS

#### STAFF RESEARCH COUNCIL MEETINGS



Dr. M. S. Chari Welcoming the delegates

Staff Research Council Meetings were held at Central Tobacco Research Institute, Rajahmundry from 13-7-89 to 18-7-89. The meeting was attended by Dr. R. Lakshminarayana, Project Co-ordinator (Tobacco), Officers-in-Charge of all CTRI Research Stations and Scientists of CTRI and CTRI Research Stations. Dr. M. S. Chari, Director in his welcome address briefly mentioned the achievements made during VII plan particularly the release of high yielding varieties like Jayasri (MR), Hema, Bhavya among FCV Tobacco, Krishna and Sendrapatty Spl. among Cigar filler and Cheroot tobacco respectively. Sucker control by applying 4% Decanol after bud topping increased the yield and

quality of FCV, Natu and Burley tobaccos. Dr. Chari mentioned the mandates for VIII five year plan and cautioned the Scientists that in last 2-3 years tobacco crop is facing a stiff opposition from the anti-smoking and anti-tobacco lobby all over the world. In view of this it is the primary duty of tobacco scientists to evolve suitable varieties with low tar and low nicotine with other quality parameters. He identified new frontier areas of science and requested the scientists to give a critical thinking on these areas. He appealed to the scientists to develop mission oriented research with sound technology to keep the flag of CTRI flying high.

A special group discussion was arranged on "Tobacco based Cropping System" on 13-7-89 under the chairmanship of Dr. M. S. Chari, Director. Dr. R. Sinha, Head of Div. Agronomy, CTRI initiated the discussion and stressed the need to make use of the available land efficiently and to grow crops throughout the year and reviewed the results of different cropping systems. Sri Umamaheswara Rao, officer - in-charge, CTRI Research Station, Guntur stated that Mustard was found to be a remunerative substitute to tobacco. Dr. C.V. Raghavaiah, Officer-in-Charge, CTRI Research Station, Vedesandur gave a resume of the cropping system in Tamilnadu in relation to chewing and cigar tobacco. Ragi-tobacco was found to be the best rotation for chewing tobacco while onion-tobacco is the best intercropping system. Dr. K. D. Singh, Officer-in-Charge, CTRI Research Station, Kandukur described the role of soil moisture for success-



ful implementation of tobacco cropping system with other crops- Sri M. Someswara Pao, Officer-in-Charge, CTRI Research Station, Dinahata reviewed the cropping systems followed in Dinahata tract of West Bengal and said that potato intercropping proved promising with a CBR 1 : 2.26. Dr. R. G. Pandey, Officer-in-Charge, CTRI Research Station, Pusa said that maize-tobacco-maize is good for irrigated area of Bihar and tobacco + sugarcane, a two year rotation, and for some areas groundnut-Tobacco are profitable. Sri J. S L. Moses, Officer-in-Charge, CTRI Research Station, Hunsur said that cotton and gingelley can be fitted into cropping system very well. He also mentioned sunflower and maize are becoming popular. Dr. Harishu Kumar gave a detailed account of the intercropping system in flue-cured tobacco with particular reference to vertisols and suggested that intercropping in f.c.v. tobacco with other crops is not desirable as the quality of tobacco is affected. Summing up the discussion Dr. R. Lakshminarayana, Project Co-ordinator (Tobacco) suggested that while formulating the cropping systems the agronomical aspects, plant protection aspects, residual problems of insecticides and fungicides and economics should be taken into consideration.

#### RELEASE OF BULLETIN & VIDEO CASSETTE :

A function was organised in CTRI on 28-9-89 on the eve of Jawaharlal Nehru Centenary Celebrations to release of Technology Bulletin and video cassette. Dr. M. S. Chari presided over the function. Sri P. P. Williams, Chairman, Tobacco Board released 'Tobacco Production Technology' Bulletin brought out by CTRI and a video cassette 'Pragathi Padamlo Pogaku Sedyam' was released by Shri Daruvuri Veeraiah, Vice-Chairman, Tobacco Board. Describing the relationship between CTRI and Tobacco Board as a symbiotic one which benefited both, the Tobacco Board Chairman said, that with the efforts of R & D programme the quality and productivity of tobacco in Karnataka and AP was improved. Dr. M. S. Chari requested the chairman

of the Tobacco Board to establish chemical analysis units at each platform for quick analysis of the leaf produced in the season. Dr. B. V. Ramakrishnappa introduced the guests and read messages and Dr. K. Nagarajan proposed a vote of thanks.



Sri P. P. Williams Releasing Technology Bulletin.



Sri Daruvuri Veeraiah Releasing Video Cassette.

#### TOBACCO PLANTING AT RAYAGADA

With a view to explore the possibility of growing good quality monsoon flue-cured tobacco crop at



Sri P. P. Williams addressing the gathering

Rayagada area of Orissa State, two trials have been conducted on 28-8-89 viz. (1) Varietal trial with five varieties i. e. Bhavya, 16/103, McNair-12 Godavari Special and F. C. V. Special. (2) Varietal response to

different dates of planting and doses of nitrogen with (a) two varieties viz. Bhavya and F.C.V. Special (b) three dates of planting i. e. 28-8-89, 7-9-89, and 15-9-89. (c) three doses of nitrogen i. e. 30, 40 and 50 kg/ha.

## RESEARCH HIGHLIGHTS

### CTRI RESEARCH STATION, GUNTUR

Among the F. C. V. Varieties, McNair 1040 proved outstanding, while in Natu tobacco, NG-62 proved better.

### CTRI RESEARCH STATION, KANDUKUR

\* Micro Watershed technique (ridge-base sowing-system) had marked effect on growth of greengram as well as bajra as compared to normal flat sowings. Similar effect was observed on growth and yield of greengram in the previous Kharif season also.

\* Spraying Metalaxyl ZM 72 WP @ 0.2% at 15 and 30 days after germination in tobacco nurseries reduced damping-off incidence and increased transplantable seedlings.

\* Two parasites viz. *Enearsia transvera* (Timberlake) *Evetmocenus munders* Merret were recorded on whitefly Pupae.

\* One rare predator on whitefly eggs and nymphs / pupae, *Agistemus macrommatus* Gonzalez - Rodriguez was recorded for the first time from this area.

## OTHER ACTIVITIES

### INDEPENDENCE DAY CELEBRATION

43rd Independence day was celebrated on 15-8-89 at the Institute. Dr. M. S. Chari, Director, CTRI hoisted the flag. All the staff members attended the function. In this connection Dr. M. S. Chari, President of the CTRI Employees Co-operative Credit Society Ltd., distributed

the cash prizes to the children of CTRI employees who secured 1st and 2nd ranks in Intermediate and 10th class. Mr. M. S. Srinivas, S/o Shri M. Ramam and Miss Neelima D/o Shri N. S. Murthy received Rs. 300/- each and Miss C. R. Himabindu, D/o Shri C. R. Nageswara Rao and Miss M. Sangeetha, D/o Shri M. Sanni Babu received Rs. 200/- each.





L. to R. : Mr. M. S. Srinivas, Kum. M. Sangeetha, Kum. N. Neelima, Kum. C. R. Himabindu and Dr. M. S. Chari.



Dr R. Sinha, Welcoming the gathering.

### HINDI WEEK CELEBRATIONS

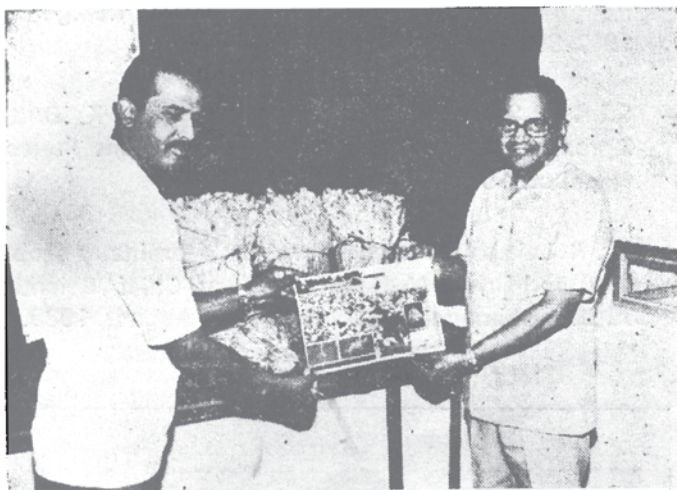
Hindi week was celebrated from 14th to 20th September 1989. Director, CTRI presided over the Valedictory function on 20th September 1989. Dr. R. Sinha, Chairman of the Hindi Language Committee welcomed the gathering. Dr. M. S. Chari, distributed the prizes and certificates to the winners in the various Hindi competitions.



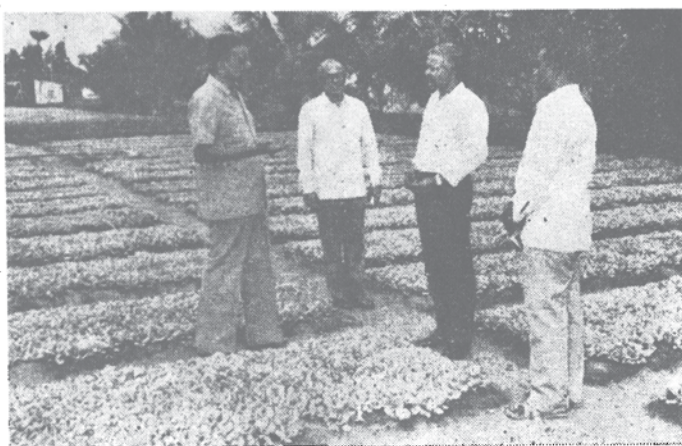
L. to R. : Sri M. Rambabu, Sri B. V. V. Satyanarayana, Sri I. Jagadish Chandra, Dr. P. Harishu Kumar, Dr. N. Krishnananda and Dr. M. S. Chari.



## TRANSFER OF TECHNOLOGY



Dr. M. S. Chari Presenting a Tecanology Bulletin to the farmer whose Crop appeared on the Cover Page.



Nursery Visit.



Dr. P. Harjshu Kumar explaining about Kharif Crop.

### FIELD DAY

'Kharif crops of vertisols' - a field day was conducted on 4-8-89 at CTRI Farm, Kateru. CTRI Scientists had fruitful discussions with progressive tobacco farmers on the performance of important Kharif crops like mustard, safflower, etc. in tobacco based cropping system.

### GROUP DISCUSSIONS

In collaboration with Tobacco Board Officials, group discussions were organised with farmers at Chityala and Kapavaram on 26th August, and at Morampudi on 22nd September, 1989.

### RADIO & TV

- \* "Pogaku Narumadula pempakamlo acharinchadagina yajamanya Paddhatulu" by Sri V. V. Ramana Rao, was broadcasted by AIR, Vijayawada on 1-7-89.
- \* "Toorpu Godavari agency pranthamuloni white burley pogaku yajamanyamu" by Sri R. Subba Rao was broadcasted by AIR, Visakhapatnam on 21-7-89
- \* "Pogaku narumadulalo vatchu tegulu, vati nivarana" by Sri T. S. N. Reddy was broadcasted by AIR, Vijayawada on 4-8-89.
- \* "Pogaku narumadula pempakamulu" was broadcasted by AIR, Vijayawada on 4-8-89.
- \* "Pogaku narumadulalo laddepurugu nivarana by Sri G. Ramprasad was broadcasted by AIR, Vijayawada on 17-8-89.
- \* "Virginiya pogaku narumadulu kattutalo konni melukuvulu" by Sri M. Sannibabu was broadcasted by AIR, Visakhapatnam on 8-9-89.
- \* "Vividha rakala nelalaku siparasu checina pogaku rakalu" by Sri M. Sannibabu was broadcasted by AIR, Vijayawada on 18-9-89.
- \* "Pogaku narumadulalo vatchu cheeda peedalu vati nivarana" was broadcasted by AIR, Vijayawada on 22-9-89.
- \* "Virginia pogaku narumadulalo vatchu cheeda peedalu vati nivarana" by Sri G. Ramprasad was broadcasted by AIR, Visakhapatnam on 25-9-89.
- \* "Telika nelalalo pogaku sedyam" was broadcasted by AIR, Vijayawada on 25-9-89.



### CONFERENCES/SYMPOSIA/SEMINARS/WORK SHOPS/TRAINING COURSES

- \* Dr. C. V. Raghavaiah, Officer-in-Charge, CTRI Research Station, Vedasandur attended the Management Committee Meeting of KVK of Agricultural College and Research Institute, Madurai on 24-7-89.
  - \* Dr. S. S. Hussaini, Scientist ( Selection Grade ) attended the meeting on Bio-technology degradation of pesticides in soil for reducing residues held at Central Food Technological Research Institute, Mysore on 29-7-89.
  - \* Dr. V. Krishnamurthy, Scientist ( Selection Grade ) Sri M. Uma Maheswara Rao, Scientist (S. G.) and Sri A. S. Krishna Murthy, Scientist S-I attended the zonal Research and Advisory Council Meeting of Krishna-Godavari zone organised by A.P. Agricultural University at Guntur during 19-20 September, 1989.
- A batch of 7 Asst. Agric Officers (in Service training) from Rural Development Training Centre, Kudige on 19-7-89.
  - Sri R. P. Sapkota, Project Manager, Sri V. K. Dutta, Agronomist, National Tobacco Development Project, Nepal on 15 to 17 August, 1989.
  - Dr. R Lakshminarayan, Project Co-ordinator (Tobacco) and Dr. M. N. Nagaraja Setty, Chief Scientist, AICRP, Shimoga on 22nd and 23rd August, 1989.



Dr. B. V. Ramakrishnaya explaining quality factors of Bhavya to Sri Devid Ponnayya, Blend Chemist,

### VISITORS

#### CTRI RESEARCH STATION, HUNSUR

- Sri Marnix van Hyfte, Sales Manager. Nitrate Sales International Belgium, Sri Devid Ponnayya, Blend chemist, I. T. C. Ltd., Calcutta, Dr. T. S. Subrahmanyam, Manager, Research Department, I. T. C. Ltd., I. L. T. D. Division, Rajahmundry on 6-9-1989.

### APPOINTMENTS :

No.	Name	Grade	Place of duty	Date of appointment
1.	Sri G. Chinna Rao	S. S. Grade I	Rajahmundry	21-6-89
2.	Sri Y. Yesu	Jr. Clerk	Rajahmundry	26-6-89
3.	Sri V. Narasimha Rao	Jr. Clerk	Rajahmundry	1-7-89
4.	Smt. S. Sarada	S. S. Grade I	Rajahmundry	6-7-89
5.	Sri Ch. N. V. S. Sarma	Jr. Clerk	Kandukur	10-7-89
6.	Sri K. Krishnamachari	S. S. Grade I	Jeelugumilli	11-7-89
7.	Sri Chandradeo Rai	S. S. Grade I	Pusa	12-7-89
8.	Smt K. Pushpa	S. S. Grade I	Rajahmundry	12-7-89
9.	Sri N. Suryanarayana	Jr. Clerk	Rajahmundry	19-7-89
10.	Sri Y. Ramachandra Rao	S. S. Grade I	Rajahmundry	17-8-89
11.	Sri V. N. Swamy	T-1	Jeelugumilli	22-8-89
12.	Sri M. Trinath	T-1	Kandukur	23-8-89
13.	Sri G. Muralikrishna Rao	Jr. Clerk	Jeelugumilli	29-8-89
14.	Sri Satyanarayana Thakur	S. S. Grade I	Pusa	30-8-89

## RETIREMENTS/RESIGNATIONS

No.	Name	Designation	Place	Reason	Date
1.	Sri T. Veeraiah	S. S. Grade III	Guntur	Resigned	22-7-89
2.	Sri R. Narayan Swamy	T-1-3	Vedasandur	Superannuation	31-7-89
3.	Sri A Surya Sana	AAO	Rajahmundry	Superannuation	31-8-89
4.	Sri H. N. Roy	S. S. Grade III	Dinhata	Superannuation	30-9-89

## KRISHI VIGYANA KENDRA



Trainees with Programme Organizers



Trainees with Programme Organizers

### Training Programmes

A total of 63 training programmes (both ON and OFF campus) were conducted covering 573 farmers and 420 farm women in different disciplines viz. Crop production, Horticulture, Animal husbandry, Home science and Rural crafts. On the eve of Nehru Centenary Year special training programmes were conducted for rural youth on (1) Poultry Management from 5-9-89 to 11-9-89, (2) Extraction and preparation of finished fancy articles from Banana fibre from 21st July to 7th August 1989 for 16 Rural Youth sponsored by CASA, and (3) Detergent Powder making.

### Radio Interviews with KVK Beneficiaries

1. On the Topic 'Kithanarutho Alankara Vastuvulu' with Smt. Boddu Subbalakshmi, Chenduru was broadcasted on 10-8-89 from AIR, Vijayawada.
2. On the Topic 'Thati Akulutho Alankara vastuvulu' with Sri Nandapudi Venkateswarulu Velugubandha was broadcasted on 17-8-89 from A. Vijayawada.



## PAPERS PUBLISHED

1. AMARNATH, S. Problems and progress in the breeding of chewing tobacco. *Indian Tob J.* 20 (3) : 8-10, 1988.
2. AMARNATH, S and N. S. MURTY. Path-Coefficient analysis in chewing tobacco. *Indian J. Genetics & Plant Breeding* 48 (3) : 393-6, 1988.
3. APPA RAO, K. and C. V. RAO. Sustaining flue-cured tobacco yields in Andhra Pradesh. *Tob. Res.* 15 (1) : 79-82, 1989.
4. CHARI, M. S. Genetic diversity in Nicotiana in India- Present status and prospects. (In Plant Genetic resources-Indian perspective, Edited by PARODA R. S. et al, pp. 409-18, New Delhi, National Bureau of Plant Genetic Resources, 1988).
5. GOPALACHARI, N. C. Tobacco. (In Agriculture in Andhra Pradesh, Vol. II. Crops; Edited by BAPREDDY, D et al, Pub. Farmers' Welfare Trust & Soc. Scientists for Adv. Agric., Hyderabad 1989, pp. 236-49).
6. KAMESWARA RAO, B.V; S. R PRABHU; V. USHA-SRI; R. ATHINARAYANAN; and K. P. S. N. MURTHY. Total carotenoid levels of Indian FCV tobacco. *Tob. Res.* 15 (1) : 59-64, 1989.
7. KAMESWARA RAO, B. V; K. P. S. N. MURTHY; M NAGABHUSHAN and S. V. BHIDE. Effect of additives on tobacco smoke particulate matter and its mutagenicity. *Tob. Res.* 15 (1) : 76-9, 1989.
8. KAMESWARA RAO, B. V. Agricultural experiments to reduce toxic substances in cigarette smoke. (In Tobacco and Health : The Indian scene, Edited by CO SANGHVI and PERIN NOTANI, 1989. pp. 111-20).
9. KRISHNAMURTHY, A. S; V. V. RAMANA RAO; A.B. SASTRY; K. NAGARAJAN and T. S. N. REDDY. Performance of mosaic resistant flue-cured tobacco lines. *Tob. Res.* 15 (1) : 79-82, 1989.
10. MURTHY, A.G.K; K. S. N. MURTHY; S. KRISHNAMURTHY; N. C. GOPALACHARI; M. C. M. REDDY and D. V. L. SATYAVATHI. Effect of simulated seawater on the quality of smoke-cured chewing tobacco. *Tob. Res.* 15 (1) : 79-82, 1989.
11. MURTHY, N.S; C.R NAGESWARA RAO; and C.V.V.S. MURTHY. Tolerate gap limits in tobacco crop of Southern light soils and Northern light soils of Andhra Pradesh. *Tob. Res.* 15 (1) : 27-32, 1989.
12. MURTHY, P.S.N; G. RAMAPRASAD; S. SITHARAMAIAH; B. V. KAMESWARA RAO; S. R. PRABHU and S. NAGESWARA RAO. Studies on the enrichment of neem fractions and their relative efficacy against tobacco caterpillar (*Spodoptera litura* F.) on Lanka and FCV tobacco. *Tob. Res.* 15 (1) : 65-70, 1989.
13. PRABHU, S. R; P. S. N. MURTHY; B. V. KAMESWARA RAO and K. P. S. N. MURTHY. Improvement of tobacco aroma and smoke flavour by post curing processing. *Tob. Res.* 15 (1) : 83-7, 1989.
14. PRASANNASIMHA RAO, G.S.B. Genetic divergence in cigar filler tobacco (*N. tabacum* L.) *Tob. Res.* 15 (1) : 5-12, 1989.
15. RAMJILAL; K. NAGARAJAN; and G.V.G. KRISHNAMURTHY. Parasitic Nematodes of tobacco and their control. *Indian Tob. J.* 20 (3) : 11-2, 1988.
16. RAO, R.S.N; and S.V.V. SATYANARAYANA. Studies on *Peribaea orbata* (Diptera - Tachinidae) A larval parasite of tobacco caterpillar. *Tob. Res.* 15 (1) : 1-4, 1989.
17. SREERAMAMURTHY, CH; A. HANUMANTHA RAO; and B. V. V. SATYANARAYANA. Comparative study of quality characteristics of various non-virginia tobacco types grown in different agro-climatic zones. *Indian Tob. J.* 20 (3) : 3-7, 1988.
18. SUBRAHMANYAM, G. S. V; and D. V. SUBBA RAO. A new approach of analysis to half-diallel crosses where parental lines are included. *Indian J. Genetics & Pl. Breeding* 8 (2) : 235-39, 1988.
19. SURYANARAYANA, YV; and D.C.H. RAJA RAO. Information resources in tobacco : Indian statistical information. *Indian J. Agric Library & Information Sci.* 16 : 19-26, 1989.
20. UMA MAHESWARA RAO, M; T. SITARAMACHARI; A. V. SEKHARABABU and M. NAGESWARA RAO. Mustard - an alternate crop in Black Cotton Soils. *Annadata* 21 (9) : 15, 1989.



## संक्षिप्त समाचार

### मुख्य घटनाएँ :

केन्द्रीय तम्बाकू अनुसन्धान संस्थान, राजमंद्री में दिनांक 13-7-1989 से 18-7-1989 के दौरान अनुसंधान कर्मचारी परिषद की बैठकें आयोजित की गयी। डा. एम. एस. चारी निदेशक ने स्वागत भाषण में सातवीं योजना की उपलब्धियों का संक्षिप्त व्यौरा दिया। उन्होंने वैज्ञानिकों से आग्रह किया कि वे अपने लक्ष्य युक्त अनुसंधान एवं ठोस तकनीकी उपलब्धियों से इस संस्थान की मर्यादा ऊपर रखें।

डा. एम. एस. चारी, निदेशक की अध्यक्षता में दिनांक 13-7-1989 को तम्बाकू पर आधारित सस्य क्रम पद्धति पर एक विशेष सामूहिक चर्चा आयोजित की गयी। डा. रमेन्द्र सिन्हा अध्यक्ष, सस्य विज्ञान प्रभाग ने इस चर्चा की शुरुआत की तथा उन्होंने उपलब्ध भूमि के समुचित एवं दक्ष उपयोग से सालोभर फसल उगाने पर बल दिया। अंत में तम्बाकू परियोजना समन्वयक डा. आर. लक्ष्मीनारायण ने चर्चा को संक्षेप करते हुए सुझाव दिया कि सस्यक्रम योजनाओं को प्रतिपादित करते समय सस्य विज्ञान एवं पौधा संरक्षण पहलुओं, खासकर कीट एवं कवक नाशी दवाओं के अवशेष एवं आर्थिक पहलुओं पर ध्यान रखें।

28-9-1989 को जवाहरलाल नेहरू जन्म शताब्दी समारोह का आयोजन किया गया। इस अवसर पर "तम्बाकू टेकोनोलजी बुलेटिन" का विमोचन श्री पी. पी. विलियम्स, तम्बाकू बोर्ड अध्यक्ष द्वारा किया गया। तम्बाकू कृषकों के लाभार्थ तेलुगु भाषा में तैयार वीडियो केसेट "प्रगति पदम लो पोगाकु सेद्यम" का विमोचन श्री दरुवूरि वीरय्या, तम्बाकू बोर्ड उपाध्यक्ष द्वारा किया गया।

### अनुसंधान उपलब्धियाँ :

गुंटूर क्षेत्र के लिए वर्जोनिया तम्बाकू का मैक नेयर 1040 किस्म तथा नाटु तम्बाकू का एन. जी-62 किस्म उचित पाया गया।

0.2 प्रतिशत मेटालाक्सिल ए. एम-72 डब्ल्यू. पी का नर्सरी छिडकाव से पौद गलन बीमारी की रोक-थाम तथा अधिक स्वस्थ पौद प्राप्त किए गए।

### अन्य कार्य कलाप :

इस संस्थान में 43 वां स्वतंत्रता दिवस 15-8-1989 को मनाया गया। डा. एम. एस. चारी, निदेशक ने उस अवसर पर राष्ट्रीय झण्डा फहराया। समारोह में सभी कर्मचारियों ने भाग लिया।

### हिन्दी सप्ताह समारोह :

14 से 20 सितम्बर, 1989 के दौरान इस संस्थान में हिन्दी सप्ताह समारोह का आयोजन किया गया। 20-9-1989 के दिन अन्तिम समारोह की अध्यक्षता निदेशक डा. एम. एस. चारी ने की। राजभाषा कार्यान्वयन समिति अध्यक्ष डा. रमेन्द्र सिन्हा ने सभासदों का स्वागत किया। इस अवसर पर डा. एम. एस. चारी, निदेशक ने विभिन्न हिन्दी प्रतियोगिताओं के विजेताओं को पुरस्कार एवं प्रमाण पत्र का वितरण किया।

### कृषि विज्ञान केन्द्र के कार्य कलाप :

अलग अलग विषयों पर कुल 63 प्रशिक्षण कार्यक्रम आयोजित किये गये जिससे 573 कृषक और 420 क्षेत्रीय महिलाओं ने लाभ उठाया। नेहरू जन्म शताब्दी वर्ष के उपलक्ष्य में मुर्गीपालन प्रबंध, केले रेशों से रंग बिरंग वस्तुओं बनाने तथा डिटर्जेंट पाउडर तैयार करने सम्बन्धी विशेष प्रशिक्षण कार्यक्रम ग्रामोण युवा के लिए चलाए गए।