



CIRCOT news

Newsletter of the Central Institute for Research on Cotton Technology, Mumbai

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EDITORIAL

A comprehensive "farm-to-market approach" in agricultural research is gaining ground the world over. No surprise that in the commercial crops including natural fibres the concept of "value chain" in dealing with specific commodities has been given prominence in governmental as well as in international funding programmes for research. Such an approach envisions a win-win situation for both the producer and the user in equal measure and makes the producer and partner in the business operations of that specific commodity. An effective value chain is considered one in which the stakeholders right from farmers, processors, entrepreneurs and marketing professional upto consumers stand to benefit through high productivity and quality of both the raw material and also the finished good that each one in the chain deals with.

Under the world bank funded ICAR endeavour in the National Agricultural Innovation Project (NAIP), the value chain approach in natural fibre systems has been given considerable importance under the component 2 dealing with "Production-to-Consumption" system research. Being an institute dealing specifically on post harvest management, processing and value addition and bio-mass and by products utilization, CIRCOT has taken keen interest in taking a main lead in carrying out research programmes in value chain on cotton fibre and also wholeheartedly supporting research on fibres from banana-pseudo stem, and coconut initiated by other institutions under the NARS. Care has been exercised to see that under these projects each fibrous system in its entirety is addressed so that each and every stake holder in the chain improves in his efficiency and effectivity contributing to the overall commercial viability. While the value chain on cotton concentrates not only on the conventional chain of fibre to garment but also on the utilization of the cotton seed and the plant by-products. Similarly the value chain on banana-pseudo stem deals with the fibre, the scotching waste and the sap for value addition, enterprise

development and economic prosperity of both the producer and the processor. The project on coconut fibre intend to utilize the fibre for high end product development by improving the extraction efficiency, processability and novel product development, stressing on the use of waste (pith) generated keeping in mind the impact of these by products and biomass on the eco-system.



The value chain projects being in operation at CIRCOT have novel approaches in terms of utilization of the raw material, process improvement, value addition strategies, novel product development and above all, preservation of environment. While farm income enhancement has been the main concern, equal attention has been paid for reducing drudgery in post harvest operation, improving efficiency in processing apart from concentrating on high value product development and business creation. All these projects with a base-line survey to begin with envisage to capture the incremental benefit the stakeholders in the value chain would receive upon successful completion of the programme. Envisions as model project, it is expected that these endeavour would provide a catalytic effect on the commodity sector to replicate the programmes on a larger scale both in quality and quantity in the years to come. The component projects under NARS being dealt with at CIRCOT have begun to show some promising results and trends. Hopefully in the days to come, CIRCOT would be reporting a few success stories in future issues in this newsletter and the entire Institute is looking forward to those exciting days.

Editorial Committee

**Dr. S. Sreenivasan, Dr. C.D. Ravindran,
Dr. N. Vigneshwaran and Shri M. Mohan**

Performance Evaluation of Cyclones used in Modern Ginneries

Cyclones are popular devices that are used in industries for cleaning gas and to prevent air pollution. In the ginning industry, cyclone separators are used for preventing air pollution in the ginning industry. During the period under report different numerical schemes were evaluated for the simulation of cyclone separator. Pressure Staggering Option (PRESTO), Second order, Body force weighted (BFM), and Standard schemes were evaluated for interpolation of pressure. Quadratic Upwinding Interpolation Scheme for Convective Kinetics (QUICK), Second Order Upwinding (SOU), First Order Upwinding (FOU), and Power law Schemes were tested for discretization of momentum, turbulent kinetic energy and its dissipation rate. Few prominent research groups recommend use of QUICK scheme for discretization of momentum, turbulent kinetic energy and its dissipation rate and FOU scheme for discretization of Reynolds stresses. Hence this type of combination was also evaluated. The SIMPLE, SIMPLEC and PISO schemes were evaluated for pressure velocity coupling. It is in practice to declare uniform linear velocity at the inlet of cyclone separator. But in actual practice the flow at the inlet of cyclone separator is highly turbulent. Hence the evaluation of turbulent velocity and uniform linear velocity at the inlet was also conducted. The turbulent velocity profile was declared through UDF file. The discrete phase model (DPM), PRESTO and QUICK schemes were used to determine collection efficiency of cyclone separator. Fourteen thousand four hundred lint particles (72x200) of which, max., mean and min. diameters were 10, 4 and 1μ , respectively were released from inlet surface. The mass loading was considered as lg/s.

Though the convergence is fast with numerical schemes of Second order, BFM, and Standard for pressure interpolation but they fail to simulate tangential velocity and pressure drop accurately inside cyclone separator. The PRSTO pressure interpolation scheme simulates

all the velocity components and pressure drop accurately inside cyclone separator.

The power law and FOU schemes behaved poorly and failed to predict even reverse flow inside cyclone separator. The quality of simulation is almost same with SOU, QUICK and combination of QUICK and FOU schemes for spatial discretization as far as velocities and pressure drop inside cyclone separator is concerned. The convergence with SOU is 8-10% faster than QUICK and combination of QUICK and FOU schemes. The prediction of RMS tangential and RMS axial velocity was better with QUICK schemes. The SOU scheme highly over-predicted RMS tangential whereas the combination of QUICK and FOU schemes prediction is inferior to QUICK scheme.

The SIMPLE, SIMPLEC and PISO pressure-velocity coupling algorithm gave almost same result. But the simulation time required with SIMPLE and PISO is around 15-20% lesser than SIMPLEC. The declaration of turbulent velocity profile at inlet reduces the simulation time by 20-25%. The efficiency of cyclone separator was found as 87.39%.

A Value Chain for Coconut Fibre and its by-products: Manufacture of Diversified Products of Higher Value and Better Marketability to Enhance the Economic Returns of Farmers

In this project, a joint survey was conducted by CIRCOT along with TMNRRDC from July 12 to 18, 2009 to Tiruvananthapuram, Ernakulum, Alleppey, Tenkasi to study the status of different extraction machineries used for coconut fibre, their processing and spinning methods, preparation of the baseline survey to scale up the project. Design of prototype disintegrator, defibering machine with cleaner and fibre segregator have been made. The specification preparation and indenting of all the above equipments are being carried out. Two varieties of coconut fibres have been identified. The following are the observations of the survey :

- The fibre retting process requires about 9-10 months, which is very time consuming.

- Retting process is polluting the backwater and ecosystem; hence it is not environment friendly.
- Disintegrator and defibering used for retied husk are not energy efficient.
- Generally 30 - 50 hp motors are used to operate the machines. It is underutilization of power. Energy consumption is very high and production rate also is not high.
- Manual beating and loosening of husk, removal of exocorp is tedious, time consuming job and unhygienic. It is hazardous for the labour health.

- Beating of disintegrator has not optimized.
- Breakage of fibres (over 30%) during disintegrating and defibering operation mainly due to number of beating bars and combing nails are not optimized.

Fibre test Observation:

- The variability in fibre diameter is very high for both the identified samples. The CV % varies from 14 - 24 %. Hence the fibre classification should be redefined. There may be two varieties only, coarse and fine fibres. The medium fibre variety may be omitted.

MEETINGS

Half-yearly IRC Meeting (IRC)

A Half-yearly IRC meeting was held on October 30 and 31, 2009 to discuss in detail about the progress made in each of the different projects under various Core Areas during the period from April to September

2009. Two new project proposals viz. Design and Development of an Apparatus for Measurement of Moisture Vapour Transfer Rate (MVTR) of Fabrics Based on Dish Method by Shri A.K. Bharimallah and Evaluation of Liquid Moisture Management Properties of Commercially Available Cotton and Cotton Blended Fabrics by Dr. R.P. Nachane were approved during the meeting under Core Area II.



Half-yearly Institute Research Council Meeting in Progress

Sixteenth Research Advisory Council Meeting (RAC)

The sixteenth RAC meeting was held on March 17, 2010. Prof. Anwar Alam, Chairman, RAC presided over the meeting. The Heads of Divisions presented the research findings of their respective divisions. The following were the recommendations of the Committee.

1. The project on Cotton Value-Chain should also strive to part some benefits to farmers made in the value-addition to seed and fibres.
2. The efficiency of pre-cleaners developed for use in the village level needs to be evaluated by conducting field trials.
3. A method to identify Bt. and Non-Bt cottons to be developed to prevent the practices of adulteration.
4. The work of CIRCOT on oil content in Bt. hybrids has to be continued and more work needs to be done to determine the oil content in Bt. and Non Bt. cottons and its relationship with the type of event used in producing the transgenic cotton.
5. Presently, 90% of cottons produced in the country are in the 27-30 mm range and is a matter of great concern; keeping the textile mill's requirement, cottons in various other length range needs to be promoted.
6. Work on standard varieties and trade varieties may be continued only on the popular varieties under cultivation irrespective of whether they are from private or public organisations.
7. Attempts may be made to prepare briquettes or pellets from cotton stalks, as with less investment more profits can be derived. Due to high lignin content cotton stalk briquettes will have high calorific value and can be an excellent domestic fuel.
8. More efforts need to be made to improve the cleaning efficiency of pre-cleaner. The machine may be commercialized only after its satisfactory performance under field trials.



Di Anwar Alam, Chairman, RAC and other Members Examining the Finished Fabric from Cotton during the RAC Meeting

9. Organic cotton has only niche market. Its cultivation and certification processes are very cumbersome. Hence there is no need to have a balanced approach towards investment of resources.
10. Due to non availability of labour for post harvest operations, mechanical harvesting of cotton is the need of the hour. Attempts may be made to adapt the Brush type cotton pickers developed abroad and suitable pre-cleaners may be designed under the TMC.
11. CIRCOT and CICR should undertake more collaborative projects especially on the biochemical aspects of cotton including preparation of gossypol free edible protein using enzymatic route.
12. Efforts need to be made with ICAR and ASRB in getting scientists recruited.
13. Efforts are to be made to improve the Bale Press Machines. R&D work needs to be made to modify the Bale Press to make it more energy efficient.
14. Bale management should be given more importance.
15. Value addition of Cotton Stalks by way of particle board, briquetting, etc., is important. In addition, attempts may be made to prepare compost from wastes available during processing of cotton stalk (i.e. collection, cleaning and chipping).
16. Work on Trade Varieties and Standard Varieties needs to be resolved through AICCIP and only need based samples to be evaluated.
17. Technology Transfer activities be given high priority and be expanded as it proves our worth and in addition helps in revenue generation.
18. Clean cotton picking concept to be popularized through awareness meets. Attempts may be made to get subsidy for use of cloth bags, headgear, apron, etc. during cotton picking.
19. Issue of development of cotton picker may be

resolved jointly by CIAE, Bhopal, CICR, Nagpur and CIRCOT, Mumbai in collaboration with private agencies. The country needs mechanical harvester *vis-à-vis* suitable pre-cleaners for both machine and hand- picked cottons.

Institute Management Committee (IMC)

The Sixty-seventh and Sixty-eighth meeting of IMC was held on October 14, 2009 and March 23, 2010 respectively at the Dr.V. Sundaram Committee Room. Both the meetings were presided over by Dr. S. Sreenivasan, Director. Regular items like confirmation



Sixty-Eighth Institute Management Committee Meeting in Progress - Dr K.K. Singh, ADG (PE), ICAR is seen on the right side of Dr. S. Sreenivasan, Director, CIRCOT

of the minutes of the previous meeting, action taken on the recommendations of the previous meeting, progress of research, works, report on Official Language Implementation formed the agenda for these meetings,

Vigilance Awareness Week

The Vigilance Awareness Week was celebrated at CIRCOT, Mumbai from November 3 to 7, 2009. Dr. S. Sreenivasan, Director, CIRCOT inaugurated the function. Staff members were administered oath on November 3, 2010. On November 5 an essay competition was held on the topic **How Effective is Vigilance in Government Offices ?**. The competition

was held in Hindi, Marathi and English. The following were the winners:

Hindi	I Prize	Shri Chitranayak
	II Prize	Smt. N.M. Deshmukh
Marathi	I Prize	Shri Sunil Marabhal
	II Prize	Smt. H. G. Pednekar
English	I Prize	Shri P. Deshmukh
	II Prize	Smt. V. V. Desai

Shri R. Sekar, Vigilance Officer, Doordarshan Kendra, Mumbai delivered a lecture on the Prevention and Control of Corruption in Government Offices. All the staff members attended this lecture and were highly benefited by the deliberations.



Shri R. Sekar, Vigilance Officer, Doordarshan Kendra, Mumbai being received by Dr. S. Sreenivasan, Director, CIRCOT, Mumbai

Proceedings of International Workshop on Utilization of Cotton Plant By-produce for Value Added Products

An International Workshop on "Utilization of Cotton Plant

By-produce for Value Added Products" was organised during 9-11 November 2009 at Hotel Pride, at Nagpur by Central Institute for Research on Cotton Technology (CIRCOT), Mumbai, in collaboration with the International Cotton Advisory Committee (ICAC), Washington and the Common Fund for Commodities (CFC), Netherlands. This workshop was organized as a culminating effort of the CFC funded project on Utilization of Cotton Plant By-produce for Value Added Products. It was attended by delegates from India and abroad. Twenty-one foreign delegates from different cotton growing countries like, USA, Egypt, Nigeria, Cameroon, Uganda, Tanzania, Kenya, Mozambique, etc. participated in the workshop, out of which 10 delegates were sponsored by CFC/ICAC.

The inaugural session was chaired by Dr. M. M. Pandey, DDG (Engg.) ICAR, New Delhi. Mr. Terry Townsend, Executive Director, ICAC, Washington, USA, Mr. Amb. All Mchumo, MD, CFC, Netherlands, Mr. Sietse Van der Werff, Sr. Project Manager, CFC, Netherlands, Dr. K. R. Kranthi, Director, CICR were the guests of honour.

The workshop had two technical sessions. Session I deliberated on the Presentation of Project findings and this session was chaired by Dr. M.M. Pandey. Dr. A.J. Shaikh, Co-PI presented the progress made under both component I and II.

Session II deliberated on Composite Boards from Cotton Stalks and Other Crop Residues on November 10, 2009. This session was chaired by Dr. N.S.L. Srivastava, Joint Director, SPRERI, Gujarat and nine interesting papers were presented.

Session III deliberated on Alternate Uses of Cotton Stalks and Other Crop Residues on 10th November 2009. The session was chaired by Dr. R.P. Kachru, Former ADG (Engg.), ICAR, New Delhi and four interesting papers were discussed in the session Session IV was an Interactive Session on 10th November 2009 and was chaired by Dr. Y.S. Nerkar, former VC, MPKV, Rahuri. This session witnessed a general presentation followed by interesting interaction with all delegates.

The following were the recommendations made in the workshop :

Policy Issue

1. The taxation issue is a serious one coming in the way of commercial utilization of cotton stalk for board manufacture. The workshop recommends that attempts be made to extend the same taxation benefits currently enjoyed by bagasse boards to cotton stalk based boards to make it more cost competitive.
2. Value-addition to Crop residues should be declared as a National Agenda of India and attempts be made to get carbon credit for this activity.
3. The technology developed by CIRCOT is more suitable for adoption in many Afro Asian countries. Hence policy initiatives are needed to set up few particle board industries not only in India but also in cotton growing countries of Africa (ICAC/Govt. of African Countries).

Researchable Issues

1. Systematic data on availability of cotton stalk in various cotton growing countries be created (CIRCOT/CICR).



Dr. M.M. Pandey, DDG (Engg.), ICAR Releasing the Book-let on the Highlights of Achievements of the Project

Management Issue

1. The pilot plant facility created should continue to run on a regular basis and it should be utilized for imparting training to prospective entrepreneurs from India and other member countries of ICAC/CFC (CIRCOT/ICAC/CFC).
2. Concerted efforts need to be made to popularize the technology developed by conducting awareness meets(CIRCOT/DAC).
3. Creation of few supply chain centres across the country to promote entrepreneurship for a sustainable supply of cotton stalk to industry. Appropriate government agencies, national and international funding agencies may be approached.

Quami Ekta Week

Quami Ekta Week was celebrated at the Institute during November 19 – 25, 2009. All the staff members were administered Oath on November 19. On November 24, an essay competition on the topic **Linguistic States – Good or Bad for the Country?** was conducted. Along with this, the Flag Day was observed on November 24, 2009 wherein the staff members contributed financially towards rehabilitation of physically handicapped children. The following were the winners in the essay competition:

Hindi	I Prize	Shri Chitranayak
	II Prize	Smt. K.R. Joshi
Marathi	I Prize	Shri Sunil Marabhal
	II Prize	Shri B.R. Satam and Shri C.M. More
English	I Prize	Shri Achchhelal Yadav
	II Prize	Smt. Bindu Venugopal

Dr. Murugendra Rai, Lecturer, Hindi Division, Guru Gobind Kalsa College, Matunga, Mumbai gave a lecture on Communal Harmony during the celebrations.



Shri B.R. Satam, Skilled Supporting Staff receiving Second Prize for his Essay from the Chief Guest

Choupal

The institute in collaboration with the Town Official Language Committee, North Mumbai organised this function on December 16, 2009, the first one of its kind in the Institute. The subject for discussion was *Sarkari Karyalyon mein Hindi ki samasyaye vs. Samadhan Avam Bajar ki Hindi vs. Hindi ka Bazar*. Dr. S. Sreenivasan, Director, CIRCOT acted as the Chairman for the function. The participants included Dr. Rajeshwar Unniyal, Member-secretary, Town Official Language Committee, Dr. (Smt.) Sunita Yadav, Assistant Director, Hindi Teaching Scheme, Dr. S.G. Gayal, Principal Scientist and Head, Chemical and Bio-chemical Processing Division, CIRCOT were the other members who actively participated in this discussion.



(Smt.) Sunita Yadav, Assistant Director Hindi Teaching Scheme, Lighting the Lamp

This function was well attended by staff from various Central Government organizations in Mumbai. Kum. Taruprabha Shail and Shri Virendra Kulkarni were awarded prizes for their excellent oration. The programme was telecast in *Amchi Mumbai*.

Awareness Meets

An Awareness meet at Nandura Village, Babhulgaon Taluka, Yeotmal was arranged on November 24, 2009 to impress upon the farmers that clean cotton would fetch better remuneration. They were also told, as, what cotton fibre parameters would have to be looked in a "good" cotton.

SI. No.	Period	Chief Guest	Subject	No. of Participants
1	December 18 and 19, 2009	Shri Anand Srimali, Assistant Director, Hindi Teaching Scheme (Typing & Stenography)	Importance of Grammar and Spelling for Administrative Staff	8
2	February 19 and 20, 2010	Shri Sanjeev Negam, Retd. Marketing Manager, Dena Bank	Implementation of Official Language for Technical Officers	11

Business Development Programme for CIRCOT Technologies

A Business Development Programme for CIRCOT Technologies was arranged at the Southern India Mills'

Association (SIMA), Coimbatore on December 22, 2009. Shri P.D. Damodaran, Chairman, SIMA CD&RA welcomed the audience while Shri T. Rajkumar, Vice Charman, SIMA inagurated the programme. Dr. S. Sreenivasan, Director, CIRCOT gave a talk on the

Innovativeness in NAIP Projects and Business Incubation Concepts. The following talks were arranged during the function.

- Zonal Technology Management and Business Planning and Development Unit by Dr. N. Shanmugam PI of the project and Dr. S.B. Pal, Business Manager, BPD
- Setting up Enterprises : Cotton Biomass as Raw Materials by Dr. A.J. Shaikh, Head, Transfer of Technology and Shri R.M. Gurjar, Principal Scientist, CIRCOT
- Technology to Dye Cotton Yarn & Fabric with Natural Dyes by Dr. P.V. Vasradarajan, Principal Scientist, CIRCOT
- Technology for Producing Biogas from Textile Mill Waste by Dr. S.B. Pal, Business Manager and Dr. S. Venkatakrishnan, Technical Officer, CIRCOT

In this awareness meet, 65 companies participated and few of them have registered as members of the BPD unit. Several queries have been received for the technologies developed by the Institute. Some consultancies have also been provided to a few. Cotton samples are being received for testing at the Institute from some firms after the meet. The meeting ended with Vote of Thanks to the Chair.



Dr. S. Sreenivasan, Director, CIRCOT on the Innovativeness in NAIP Projects and Business Incubation Concepts

Fifth Consortium Committee Meeting (CAC) of the Project A Value Chain for Cotton Fibre, Seed and Stalks : An Innovation for Higher Economic Returns to Farmers and Allied Stake Holders

The fifth Consortium Committee was conducted on December 22, 2009 at CIRCOT. Shri Suresh Kotak, Chairman presided over the meeting. Dr. S. Sreenivasan, Director welcomed all those present and mentioned about the salient achievements under the CVC project. The meeting confirmed the minutes of the fourth CAC meeting, discussed about the action taken on the previous minutes of the meeting, discussed the progress made till date. During this meeting the Committee approved the change in organization from Forest Research Institute, Dehradun to Indian Plywood Industry's Research and Training Institute (IPIRTI), Bangalore for the purpose of providing training on the Utilisation of Crop Residues. Dr. N. Gopalakrishnan, Co-PI proposed Vote of Thanks.

Internal Lectures

1. Designing Experiments to control Variation and Minimise Error by Dr. C.D. Ravindran on December 4, 2009
2. Applications of Small Angle X – Ray Scattering (SAXS) in Nanoscience and Nanotechnology by Dr. Dillip Kumar Bisoyi, Associate Professor, Department of Physics, National Institute of Technology, Rourkela on January 25, 2010.
3. Briquetting of Crop Residues with Special reference to Cotton Plant Stalk – Market Potential in India by Dr. N.S.L. Srivastava, Member, RAC and Deputy Director, Sardar Patel Renewable Energy Research Institute, Gujarat on March 18, 2010.

Felicitation to Shri Rajvinder Singh

A programme was held on February 6, 2010 to felicitate Shri Rajvinder Singh, a non-resident Indian poet settled in Germany for his outstanding work in Hindi. This function was jointly organised by CIRCOT with Shruti Sanvad Sahitya Kala Academy. Shri Nandkishore Nautial, Senior



Shri Rajvinder Singh, a non-resident Indian poet settled in Germany inaugurating the function

Journalist presided over the function. Shri Rahi, Editor, Yashobhumi also attended the function.

International Women's Day

The International Women's Day was celebrated during the year on March 9, 2010. The theme for the year 2009 was **Equal Rights, Equal Opportunities: Progress for All**. On this occasion Dr. (Smt.) Savitri

Kulkarni, Associate Dean, Welingkar Institute of Management Development & Research, Matunga, Mumbai gave a talk on the Stress Management. During the function, women staff members who were winners of various events in the ICAR Zonal Sports Meet held at CSWRI, Awikanagar, Rajasthan from February 10 — 14, 2010 were felicitated.



*(Smt.) Savitri Kulkarni, Associate Dean, Welingkar Institute of Management Development & Research, Matunga delivering a talk on **Stress Management***

PERSONNEL

Appointment

Dr. V. Mageshwaran, Scientist joined on 15 -03-2010.

Promotion

SI. No.	Name	Post to which Promoted	Effective Date of Promotion
Technical			
1.	Shri C.V. Shivgan	Technical Assistant T-3	16-01-2003
2.	Shri B.V. Shirsath	Technical Assistant T-3	10-09-2006
3.	Shri D.M. Correia	Technical Assistant T-3	18-09-2006
4.	Shri C.V. Shivgan	Technical Assistant T-4	16-01-2008
5.	Shri V.L. Rangari	Technical Officer T-6	02-01-2009
6.	Shri U.D. Devikar	Technical Officer T-6	28-02-2009
Administrative			
1.	Shri R.K. Pallewad	Assistant	02-03-2010
2.	Smt. S.P. Paiyala	Senior Clerk	02-03-2010

Advance Increment

SI. No.	Name	Grade	No. of Increment/s	Date from which effected
1.	Shri R.P. Kadam	Technical Assistant T-3	Two	29-06-2008
2.	Smt. V.G. Udikeri	Technical Assistant T-3	Two	04-08-2008
3.	Shri B.B. Gaykar	Technical Officer T-5	Three	07-10-2008
4.	Smt. Binu Sunil	Technical Officer T-5	One	27-10-2008

Transfer

Shri Nirmal Kumar, Scientist transferred to NBSS & LUP, Nagpur w.e.f. 05-10-2009.

Retirement

Scientist

1. Shri D.V. Mhadgut, Scientist retired on 30-11-2009.
2. Dr. D.N. Makwana, Sr. Scientist retired on 26-02-2010.
3. Dr. P.V. Varadarajan, Principal Scientist retired on 26-02-2010.

Technical

1. Shri V.B. Suryanarayanan, Technical Officer (T-7-8) retired on 31-10-2009.
2. Shri G.S. Deorukhkar, Technical Assistant T-1-3 retired on 30-11-2009.

Administrative

Ms. S. Harrison, Assistant retired on 26-02-2010.

Accolades

Shri Chitranayak, Scientist and Smt. P.R. Mhatre, Senior Technical Assistant secured fifth and sixth place in the All India Praveen Examination conducted in May 2009 by the Directorate of Hindi Teaching Scheme, Mumbai.

Training Programmes/Conferences attended by Staff

Sl. No.	Name of the Training Programme	Period and Place	Participant(s)
1.	International Auditor Course	October 5-7, 2009 Mumbai	Shri R.S. Pathare and Shri R.R. Chhagani
2.	Creative Writing in Agriculture	October 5-9, 2009 New Delhi	Shri M. Mohan
3.	Modified Assured Career Progression Scheme	November 4-5, 2009 Mumbai	Shri J.R. Mangale
4.	Travelling Allowance/LTC/Joining Time	November 12-13, 2009 Mumbai	Shri S.V. Kasabe, Smt. S.M. Desai Smt. V.V. Janaskar and Smt.J.R. Chavkute
5.	IT – based Decision Support Systems for Multimedia Content Development	November 17-27, 2009 Hyderabad	Shri M. Mohan
6.	Security Management in Research and Educational Institutes	November 19, 2009 Karnal	Shri S.V. Kokane

Sl. No.	Name of the Training Programme	Period and Place	Pa rticipa nt(s)
7.	Computer Fundamentals	December 07-11, 2009 Mumbai	Shri K. Parleshwar, Shri J.R. Mangale, Smt. S.R. Shirsat, Smt. S.G. Parab and Smt.J.R. Chavkute
8.	Basics of Budgetary Exercise	December 14-15, 2009 Mumbai	Shri S.D. Ambolkar and Shri T.D. Dhamange
9.	Intellectual Property and its Commercialisation in Agriculture	December 15-24, 2009 Hissar	Shri A.K. Bharimallah
10.	Management Development Programme : Level III	January 15-23, 2010 Mumbai	Shri Venu Thanikal, Shri S.V. Kasabe, Shri A.B. Dalvi, Shri B.S. Bhenwal, Smt. Sandra Harison, Smt. V.V. Desai, Smt. S.D. Ambre, Shri A.P. Natu, Smt. J.J. Karanjavkar, Shri J.R. Mangale, Smt. S.R. Shirsat, Shri N.V. Kambli, Smt. S.D. Dudam, Smt. T.T. D'Souza, Smt.U.N. Bhandari, Smt. Viniya Rajesh Naik, Shri S.D. Ambolkar, Shri R.K. Pallewad Shri P.V. Jadhav, Shri V.M. Sable and Smt. J.R. Chavkute
11.	Management Development Programme : Level II	January 27— February 4, 2010 Mumbai	Dr.(Smt.) Sujatha Saxena, Dr. N. Vigneshwaran, Shri Chitranayak, Shri Ashok Kumar Bharimalla, Shri Achchhelal Yadav, Shri V.M. Kulmethe, Dr. (Smt.) A.A. Kathe, Shri S. Sekar, Dr. S.J. Guhagarkar, Shri D. Radhakrishnamurthy, Dr. R.D. Nagarkar, Shri P.K. Mandhyan, Dr. E.A. Pachpinde, Shri R.S. Pathare, Shri S. Vancheswaran, Shri T. Venugopal, Shri M. Mohan, Shri R.K. Jadhav, Shri D.L. Upadhye, Smt. K.K. Kale, Shri K.W. Khamkar and Smt. S. Koshy
12.	Orientation to General Financial Rules	March 4-5, 2010 Mumbai	Shri J.R. Mangale

Papers Published in Journals

1. Yadav, A., Nachane, R.P. and Ahmed, M. — *Effect of Micronaire of Cotton on Wear Comfort Parameters of Knitted Fabrics*, J. Indian Soc. Cotton Improv. Vol. 34, No. 2, pp. 107-112, August 2009.
2. Chitranayak, Makwana, D.N. and Yadav, A. — *Bt. Cotton: Quality Aspects*, J. Indian Soc. Cotton Improv. Vol. 34, No. 3, pp. 168-174, December

2009.

3. Yadav, A., Nachane, R.P., Ahmed, M., Chitranayak, - *Mechanical Behaviour of Knitted fabrics under Blending and Sheer Deformation*, J. Indian Soc. Cotton Improv. Vol. 34, No. 3, pp. 175-179, December 2009.

Papers Presented in Seminars / Conferences

1. Sreenivasan, S. — *Quality Status of Indian Cotton and its Utility for Diversified Applications* presented

at the National Seminar on Natural Fibres of India at Hyderabad from October 26 – 28, 2009.

2. Sreenivasan, S. — *Quality of Cotton in Released Bt. Hybrids* presented at the National Symposium on Bt. Cotton: Opportunities and Prospects held at CICR, Nagpur from November 17 – 19, 2009.
3. Chitranayak, Makwana, D.N. — *Quality Parameters of Bt. Cotton*, Poster presentation at the National Symposium on Bt. Cotton, Opportunities and Prospects held at CICR, Nagpur from November 17 – 19, 2009.
4. Sreenivasan, S. — *Current Status and Future Prospects for Diversified Utilisation of Cotton* presented at the 6th International Conference on Advances in Textiles, Machinery, Non-wovens and Technical Textiles ATNT 2009 at Coimbatore from December 7 – 9, 2009.
5. Tiwari, S. — *Effect of Dimethyl Polysiloxane on Thermal Polymerization of Cotton Seed Oil* presented at the 64th Annual Convention and International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS 09) held at New Delhi from December 9 – 11, 2009.
6. Sreenivasan, S. — *Value Addition of Natural Fibres: A Sustainable Economic Activity for Upliftment of of Rural Women* presented at the 28th Biennial National Conference of Home Science Association of India held at Kolkatta from January 7 – 8, 2010.
7. V. G. Arude , V.G. , Manojkumar, T.S. and Shukla, S.K. - *Design and Development of an Axial Flow Cotton Pre-cleaner* presented at the 44th National Convention and Symposium of ISAE held at New Delhi from January 27 – 31, 2010.

Industry Interface Meet

- M/s. John Deere, India Pvt Ltd. for development of cleaning system for mechanically harvested cotton.
- M/s. SSPS, Hyderabad for development of ESP Software for modernised Ginnery .
- M/s. Millennium Rubber Technology Ltd., Kerala for fabrication of rubber roller for DR Gins.

Participation in Exhibition

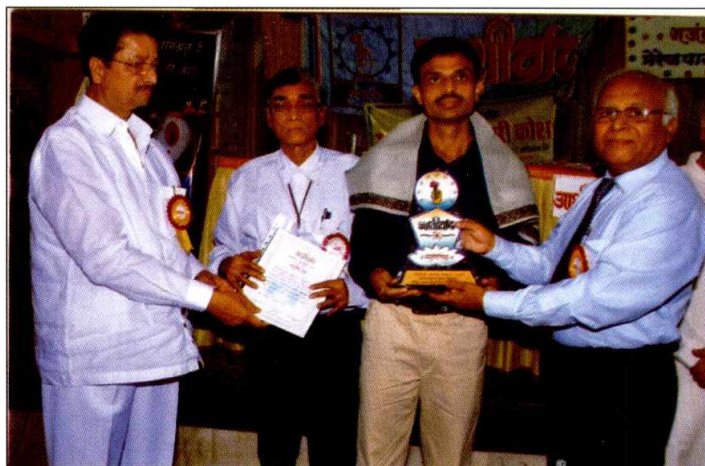
- Participated in the exhibition on Natural Fibres of India at ANGRAU, Hyderabad from October 26-28, 2009.
- Participated in Krishimela 2009 at Bengaluru from November 19-22, 2009.
- Exhibition at CIRCOT, Mumbai in connection with the visit of Shri Chaman Kumar, Additional Secretary and Financial Advisor, New Delhi on February 9, 2010.
- Participated in the exhibition at NRCC, Nagpur on February 27-28, 2010.
- Participated in Pusa Krishi Vigyan Mela at IARI, New Delhi from March 4-7, 2010.

Visit of Foreign Delegation

- A team from Mozambique on November 16, 2009.
- A team of seven members from Uganda visited to GTC, Nagpur on 21st December 2009.

Accolades

Shri Chitranayak, Scientist received a Memento and a Certificate from ASHIRWAD, a Social and Cultural organization, Mumbai for writing several Technical articles in Hindi magazines on November 9, 2009.



Shri Chitranayak, Scientist receiving a Memento and a Certificate from ASHIRWAD

ICAR Inter-Institutional Sports Meet

ICAR Zonal Sports Meet was held at CSWRI, Avikanagar, Rajasthan from February 10 – 14, 2010. A contingent

of 49 sports personnel representing CIRCOT with Shri Chitranayak, Scientist as *Chief-de-Mission* and Shri A.R. Gujar, L.D.C, as Manager actively participated in Chess,

Carom, Volleyball, Kabbadi, Table Tennis, Badminton and 100 x 4 m relay. The winners in various events are as follows :

Smt. T.T. Souz	Best Women Athlete First prize in Long Jump and Javelin Throw & Second in Shot-put
Shri B.B. Gaykar	Life Time Achievement Award (for actively participating in the ICAR sports for a long period)
Shri P.G. Gogale	Life Time Achievement Award (for actively participating in the ICAR sports for a long period)
Dr. S.J. Guhagarkar, Dr. R.D. Nagarkar, Shri P.V. Jadhav, Shri H.S. Koli and Shri Manoj Ambare	Table Tennis Team
Smt. Smita Paiyala and Smt Sandhya Parab	Table Tennis (Women)
Smt. Smita Paiyala	First Prize Carrom
Shri S.K.Parab	Scond Prize Carrom
Smt. Smita Paiyala and Smt. Snehal R. Shirsat	Badminton (Women)-Winner
Smt. Kiran Joshi	First in Chess
Shri R.S.Prabhudesai	Second in Chess
Shri Nandu V. Kambli, Shri Manoj Ambare, Shri S.P. Naik and Shri S. Surkule	4 x 100 Meter Relay Race
Smt. Sandhya Parab	100 and 200 Meter Race



Shri B.B. Gaykar receiving Life Time Achievement Award (for actively participating in ICAR sports for a long period) from Dr. S.A. Kareem, Director, CSWRI, Avikanagar



An Array of Medals Won By CIRCOT in Various Sports Events

Visitors

- His Excellency Mr. Hui Liangyu, Vice Premier of the State Council of the People's Republic of China — March 28, 2010
- Mr. Zhang Yan, Ambassador of People's Republic of China to India
- Mr. Zhang Yong, Deputy Secretary General, State
- Mr. Zhang Zhijun, Vice Foreign Minister
- Mr. Niu Dun, Vice Minister of Agriculture
- Mr. Chen Jian, Vice Minister of Commerce
- Mr. Huang Shouhong, Deputy Head of State, People's Republic of China



His Excellency Mr. Hui Liangyu, Vice Premier of the State Council of the People's Republic of China examining the mats prepared from banana pseudostem fibre



His Excellency Mr Hui Liangyu, Vice Premier of the State Council of the People's Republic of China in conversation with Dr. M.M. Pandey, DDG (Engg.).

- Shri E.K. Majhi, Joint Secretary (TMC), Ministry of Agriculture, Department of Agricultural Research & Education, Govt. of India — 05-10-2009.
- Ms. Licinia Cossa and Mr. Frederick Itungula from Nairobi to GTC, Nagpur on November 15 and to CIRCOT, Mumbai on November 16, 2009
- A Team from Mozambique — November 16, 2009

The following seven member team from Uganda visited CIRCOT, Mumbai on December 21, 2009 and then to GTC, Nagpur on December 21, 2009.

- Mr. Olumn R. Reaagan MP, Chairman, Standing Committee on Commissions, Statutory Authorities and State Enterprises, Republic of Uganda



Director, CIRCOT with the Standing Committee on Commissions, statutory Authorities and State Enterprises, Republic of Uganda

- Mr. Samuel Semanda
- Mrs. Jolly Sabunae
- Shri Chaman Kumar, Additional secretary and Financial Adviser, DARE



Shri Chaman Kumar; Additional Secretary and Financial Adviser DARE during the inauguration of the BPD Unit at CIRCOT on February 9, 2010

शोध ए कास का

आधुनिक ओटाई कारखानों सायकल का नया न मूल्यांकन ओटा कारखानों में वायु प्रदूषण के नियंत्रण ए यक्लोन एक प्रचलित उपकरण रिप व अवधि के सायक्लोनो Iअ न ओटाई का वान T1 4J प्रदूषण के नियंत्रण गया

गांठ की गुणवत्ता पर भंडारण अवस्था प्रभाव पर्य जा। 5 अध्ययन में तीन माह &-r trim गया f ल क्षेत्र कपास के तंतु विशेष प्रभाव पड़ता, जबकि रंगों 4 र पीलापन आता I एक क-यूटरीकृत **कॉटन बेल मैनेजर** विकसित किया गया, जिनके दो प्र कार्य (1) गांठ पहचान के टैग A डिजाइन एवं विकास एवं (2) गांठों के टैग को कम्प्यूटर के थ जोड़ना एवं रेशों व गुणवत्ता सहित गांठ की पहचान आदि sic I प्रबंधन अक्षीय बहाव आधारित एकल गोटो-टा प बनाकर विकसित fszrr गया I यह पाया गया 3rक्षीय बहाव कपास -क्लीनिंग के ।

अखिल भारतीय कपास _____ (AICCIP) के अंतर्गत 1233 कपास T नमूनों IT मुम्बई मुख्यालय एव 1299 नमूनों IT क्षेत्रीय यूनिटों IT गुणवत्ता रिपोर्ट प्र नुत प्रकाशित की ग पोर्ट A अवधि 94 एवं 50 मानक प्रजातियों 711, Lra tin परीक्षण या Tar I a 1 IN टेक्सटाइल उत्पादों प्रतिरोध मापने यंत्र बनाकर विकसित किया गया

यल _____ इनके 37,50 Iदों लिए मूल्य विभिन्न उत्पाद मूल्य संवर्धन व उत्तम मार्केटिंग कृषकों ग आर्थि _____ - राष्ट्रीय कृषि नवोन्मेषी _____ (NAIP) - इस परियोजना 5 अंतर्गत

4 मिलकर इनाकुलम, अलेगी 5 तीनकाशी में दि गक 12 से 18 जुलाई, 2009 के _____ म्यान एक सक् क्षण स-पादित किया I इस सर्वेक्षण क्षय विभिन्न प्रकार के यंत्र के काम आते _____ IT प्रक्रम तथा a IT स्तर आदि जानना था I UT ऐसे गोटोटाइप यंत्र I विकास किया गया जिसमें रेशों की सफाई, अल-अल करने IN _____ का इकट्ठा करने की सुविधा उपलब्ध I

डिजाइन एण्ड वलपमेंट आफ रबर डैम फॉर वाटर शेड्स नामक राष्ट्रीय कृषि नव परियोजना अंतर्गत वस्त्रों A विशेष शक्ति (स्ट्रिप), तन्य शक्ति (वाइड विड्थ), फैलाव a नसार, फटने क पंक्चर न्हेक्स तथा फैलने की आदि का _____ किया गया I प्रो म तैयार करने तैयार किया IT चुका है ।

अर्धवार्षिक संस्थान अनुसंधान परिषद बैठक अक्टुबर 30 और 31, 2009 T अप्रैल से नतम्बर, 2009 की अवधी के _____ कोर क्षेत्रों के अंतर्गत विभिन्न परियोजनाओं परियोजना T1 _____ प्रगति का जायजा हेतु चर्चा हेतु एक अर्धवार्षिक सं ान अनुसंधान परिषद बैठक आयोजित की गई ।



संस्थान अनुसंधान परिषद बैठक में चर्चा

दो नई जनाएँ यथा - डिजाइन ए _____ ट. ऑफ 07 एप टस फॉर मेजरमेंट ऑफ माइस्चर _____ ट (MVTR) ऑफ फॅब्रिक्स बेस्ड ऑन डिश मेथड - भारीम I _____ इवेल्युएशन ऑफ लिक्विड माइस्चर मॅनेजमेंट प्रापर्टी ऑफ कम 441 एवलेबल कॉटन एण्ड कॉटन फॅब्रिक्स _____ आर.पी. द्वारा मीटिंग के 01t _____ अंतर्गत स्वीकृत हुई

16 वीं अनुसंधान ति. I हकार बैठक (RAC)

17 मार्च, 2010 का 16 वीं अनुसंधान सला कार समिति की बैठक आयोजित हुई I A1. अनवर आलम, अध्यक्ष 4 अनुसंधान सलाहकार समिति को ठक A अध्यक्षता की सभी विभागों प्रमुखों अपने शोध कार्यों में विकास प्रस्तुत बैठक 3 समिति द्वारा मस्ता म्

1. कपास A मूल्य संवर्धन कडी रेयो. I न। अंतर्गत एवं कपास शों में मूल्य _____ I भ का कुछ भाग किसानों को दि I जाए



अनुसंधान सलाहकार समिति की बैठक

2. ग्रामीण स्तर पर उपयुक्त हेतु तक सत प्री- गोनरों दक्षता इनके परीक्षण खेत स्तरों पर सुनिश्चित करें।
3. संदूषकों मिश्रण के प्रचलन को रोकने वाली बीटी एवं गैर बीटी A चान पद्धति विकसित करने A सलाह
4. ट संकलन मात्रा शोधकार्य जारी रहने का लिए एवं बीटी एवं गैर कपास में तेल की मात्रा हेतु होने चाहिए साथ ही ट्रांसजेनिक कपास उपजाने संबंध A जानकारी ATM की जाए
5. वर्तमान में 90 प्रतिशत कपास *awl rim 16 से 29 मी. है ही गंभीर विषय है। टेक्सटाइल मिलों की जरूरतों मुताबिक अग्र विकास पर भी बढ़ावा दिया जाए
6. स्टैंडर्ड एवं प्रजातियों पर स प्रचलित जा रहा है, सरकारी या प्राइवेट संस्थानों द्वारा विकसित किए गए हो
7. कपास के डंठलों T पिलेट अथवा बनाने ai प्रयास रहने चाहिए क्योंकि इनसे कम लांबित पर ज्यादा कमाया जा है। कपास डंठलों में लिगनिन की अधिकता होने A वजह से इन T कैलोरीफिक मान उच्च है और ये एक अच्छा हो सकता
8. ग्रामीण स्तर पर खेतों संतोषजनक कार्य करने

पश्चात ही इनका व्यावसाय करण कया जा सकता है

9. कपास TT बाजार है स ट. ART व रने पद्धति काफी जटिल है, इनके लिए रनों T उपयोग करने की बहुत जरूरत नहीं है।
10. कपास कटाई हेतु मजदूरों T उपलब्धता T कमी T कारण मशीनों प्रयोग T बढ़ावा दिया T चाहिए। टी.एम.सी. अंतर्गत विदेशों विकसित cm।स चुनाई एवं प्री-क्लीनरों किया जाना चाहिए।
11. . प्रौ.अनु.सं. 3 .सी.आर. एन्जाइम gm गॉसीपाल-फ्री T बायोकेमिकल क्षेत्र में।
12. द्वारा R T नेकों A नियुक्ति बढ़ावा दिया जाए।
13. सुधार प्रया fill जाए। बेल स सधार 3 T उर्जा दक्षता बढ़ायी जाए
14. बेल गांठों के प्रबंधन अधिक महत्व दिया जाए
15. कपास डंठलों T पार्टि ल बोर्ड a f आदि का निर्माण महत्वपूर्ण है। कप प्रा T T से निर्माण पर किए चाहिए
16. कपास की ट.ड व स्टैंडर्ड प्रजा की टेस्टिंग अरि भारतीय कपास सन्वित सुधार योजना द्वारा सुलझायी जानी चाहिए उपयोगी सैम्पल टेस्ट f5 जाने चाहिए।
17. ट्रांसफर कार्यकलापों T महत्व दिया जाना '41 हए और इनका विस्तार हो क्योंकि T आय स्रोत वि।स मदद
18. स्व 9 कपास का बुनाई तरीकों al जा T रकता ठकों द्वारा प्रचलित किया जाए। सूतो बैग आदि रान उपयोग करने आर्थिक सहायता प्रावधान fie प्रयास कया जाए।
19. कपास की चुनाई करने सन्स्था T , *nu एवं सीआईसीआर, तीनों को प्राइवेट पाट गों T साथ निकालना =Au। देश 4 मेकैनिकल हारवेस्टर साथ g TM" मशीन T हस्त चुनाई दोनों gm प्रा T कपास उपयुक्त प्री-क्लीनर A जरूरत

संस्थान प्रबंधन समिति (आइ.एम.सी.)

सब एवं अइसठवीं संस्थान प्रबंधन समिति 14 अक्टूबर, 2009 एवं 23 मार्च, 2010 तक दिन डा. वी.

आयोजित । दोनों बैठकों की अध्यक्षता श्रीनिवासन । पठ की ओम) पर सति, पह क अनुमोदित बातों पर कार्यो, शोध रा भाषा अ)144 आदि मुख्य



संस्थान प्रबंधन समिति क

संस्थागत व्याख्यान

1. ii ii एक्सपरिमेंट एण्ड मिनिमाइज एर 'RI- न दिनांक 4 दिसंबर, 2009 I
2. एप्ल ऑफ लै एनगल एक्स-रे स्केटरिंग नैनोसाइंस एण्ड ज - T. दिलीप कुमार विशोई, प्रोफेसर, डिपार्टमेंट ऑफ भौतिकी, नेशनल इन्स्टिट्यूट ऑफ एम ल - दिनांक 25 जनवरा, 2010 I
3. उद्योत्पाद त के डंठलों - भारत मार्केट एन.एस.एल. श्रीवास्तव, आर.ए.सी. एवं उप सरदार ति 1 ci l ह311T 1 रात, दिनां 18 मार्च, 2010 I

सतर्कता जागरुकता

संस्थान सत ता जा।रुक सप्ताह दिनांक 3 से 7 नवंबर 5 दौरान गया। इस _____ सरकारी कार्यालयों में सतर्कता कितनी प्रभावी इस वषय पर हन्द , मराठी अंग्रेजी भाषा में संस्थान के कर्मचारियों

बंध प्रतियोगिता आयोजित की T जिसके परिणाम _____ । इस दौरान श्री. 3TR. सेकर, सतर्कता अधिकारी, दूरदर्शन मुख का सरकारी कार्यालयों में घूसखोरी पर लगाम लगाने उपाय षय पर व्या गान आयोजित 151T गया

हिन्दी	थम पु स्कार -	द्वितीय स्कार -
	A. चित्रनायक	श्रीमती एन.एम. देशमुख
मराठी	प्रथम पुरस्कार -	द्वितीय पुरस्कार -
	श्री. सुनील मरभळ	श्रीमती हेमांगी A. पेडणेकर
अंग्रेजी	प्रथम गर -	द्वितीय पु ङार -
	श्री. प्रशांत देशमुख	श्रीमती वी.वी. देसाई



संस्थान में सतर्कता जागरुकता सताह में श्री. आर. सेकर, स तर्कता अधिकारी, दशन .क_ ग स्वागत करते हुए डा. निदेशक, सिरट

कौमी एकता सप्ताह

सिरकॉट दिना 19 t 25 नवबर के रान कौमी La)। सताह सद्भावना के साथ बनाया गया। इस दौरान संस्थान के ए विभिन्न भाषाई प्रदेश - देश लिए अच्छे या बुरे विषय पर _____, मराठी 3T भाषाओं में निबंध S rd II dI आयोजित की परिणाम

हिन्दी	प्रथम पुरस्कार -	द्वितीय पुरस्कार -
	A. चित्रनायक	श्रीमती र्ण आर. जोशी
मराठी	प्रथम पुरस्कार -	द्वितीय पुरस्कार -
	श्री. सुनील मरभळ	श्री. बी.आर. ना । एवं A. सी.एम. म
अंग्रेजी	12 पुरस्कार -	द्वितीय पुर ङार -
	श्री. अच लाल यादव	श्रीमती हि सुनील

रान संस्थान T. मृगे राय, अता, हिन्द वि ग,
-1mo) सांप्रदायिक सद्भावना बढ़ाने पर
उत्तम व्याख्यान व निदेशक के साथ विजेताओं पु कृत



डा. I ता, f -) iic iiii : र, मादुंगा
को 7

अंतर्राष्ट्रीय नर्ता ला दिवस

8 मार्च, 2010 दिन अंतर्राष्ट्रीय महिला दिन मनाया गया, जिसमें
इंस्ट ऑफ मैनेजमेंट A. प्रो. (श्रीमती) Teat कुलकर्णी
तनाव प्रबंधन विषय में व्याख्यान दिया। इस दौरान खेलकूद
प्रतियोगिताओं में प्रतिभागी महिलाओं को भी
गया।



महिला दिन अवसर पर प्रो. (श्रीमती) सावित्री कुलकर्णी

साहित्य अकादमी के 100वां प्रायोगिकी अनुसंधान संस्थान आयोजित समारोह

व साहित्य MCI अकादमी केन्द्रीय प्रायोगिकी
अनुसंधान संस्थान के संस्थापक दिनांक 6 दिसम्बर 2010
आयोजित समारोह 4 वरिष्ठ पत्रकार श्री. कृष्ण नौटियाल हाथों
विदेश स्थित जर्मनी लोकप्रिय शा. अकादमी। उनके
हिन्दी किए गए उल्लेखनीय लेखों के लिए किया गया
अध्यक्षीय समारोह 4 वरिष्ठ पत्रकार, नंदकि र नौटियाल कहा
पत्रकार, साहित्य अकादमी के अध्यक्ष परदा ICI
के निदेशक डा. श्री. श्रीनिवासन दूसरे देशों के
शायरों को सुनने के लिए सेतु परंपरा को सराहना बताया।

अपने सम्मान के लिए उत्तर 4 श्री. राजवदर सिंह कहा कि शायर 6
जरूर लेखन में निरंतरता से जीवन भर पक्ष
की जानकारी होना चाहिए। पढ़ने से लिखना आता इसलिए पढ़ना
आवश्यक है।

संसाहित्य MCI अकादमी के अध्यक्ष श्री. श्रीनिवासन
कार्यक्रम आयोजित किया। इस कार्यक्रम के अंतर्गत
स्थानीय समाचार पत्रों में अंतर्राष्ट्रीय यशोभूमि में काफी
से।



राजवदर सिंह, श्री. कृष्ण नौटियाल, अरवि शर्मा, राह,
T. एस. श्रीनिवासन दिप प्रज्वलित कर

44।d

दिनांक 16.12.2009 & र कपास 9 घं +10 अनुसंधान संस्थान
ए नगर राजभाषा

तत्वावधान एक चौपाल 5T आयोजन f51r ाया। इस चौपाल
 ाल सरकारी कार्यालयों हिन्द - समाधान
 तथा बाजार की हिन्दी एवं हिन्दी बाजार इस कार्यक्रम अध्यक्षता
 T. एस. श्रीनिवासन, व । ।
 00 क्रम सदस्य -
 र. (श्रीमती) सुनिता सहायक शिक्षण योजना,
 T. एस.जी. गयात, प्रधान -fa) एवं
 प्रद्वि या र्ग ने भाग firr । इस चौपाल में मुंबई स्थित र.रा.
 उत्तर मुंबई (कार्यालय) के 5 ८ कर्मचारियों 4
 माध्यम रूप सीधा संवा प्रस्थापित War
 ८ दौरान उत्कृष्ट विचार व्यक्त लिए सुश्र तः प्रभा
 शैल पुरस्कृत किया ।



चौपाल आयोजन 4 T. (श्रीमती) उनियाल और
 डा. एस. श्रीनिवासन

हिन्दी कार्यशाला

अवधि के लिलिखित का ालाएँ आयोजित की गई ।

अनुक्रमांक	अवधि	मुख्य अतिथि	विषय	प्रतिभागियों की संख्या
1.	18-19 दिसंबर, 2009	श्री. अनंत श्रीमाली, सहायक निक (टंकण/आशुलिपी)	तर्नी ए व्याकरण महत्व - प्रशासनिक कर्मचारियों 5 लिए	8
2.	19-20 फरवरी, 2010	श्री. राजीव नि, नेवानवृत्त विपणन प्रबंध, a.-ii 40	राजभाषा कायन्वयन तकनीकी कर्मचारियों के लिए	11

र्नलों में प्रकाशित ापत्र

1. 1ctc ऑफ ऑफ ऑन -raw कमफट
पॅरामीटर्स निटेड फॅब्रिक्स, यादव, नाचणे आर.पी. और
अहमद एम. इंडियन सोसायटी कॉटन इम्प्रुवमेन्ट
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यादव ाय कॉटन
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3. कॉ ल बिहेवियर आण नि ड फॅब्रिक्स अ डींग शियर
s_फॉर - यादव ए., नाचणे आर.पा., अहम 217. और
कॉटन इम्प्रुवमे
खण्ड 34, सं. 3, पृष्ठ, 175-179, दिसम्बर, 2009
4. ऋषि अनुसंधान, ciqki t2 उद्योग - चित्रनायक

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74-80, सितंबर-2008

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राजभाषा आलोक, वार्षिकांक - 2008; पेज 20-24, कृषि अनुसंधान
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1. है ाबा में R. 26-28 अक्तुबर, 2009,
इटस् युटीलीटी फॉर डायवर्सिफाईड
अ केशनस पर T. ए र. श्रीनिवासन ने नॅच्यरल फायबर्स 311T
विषय रा य सम्मेलन शोधपत्र प्रस्तुत किया ।
2. बी.टी. व न।अपा
प्रास्पेक्टस पर आयोजित राष्ट्रीय संगोष्ठी में डा. एस. श्रीनिवासन

4 क्वालीटी 3 5 का लज्ड हाय ब्रडस कर कया I

3. बोईम्बतुर में Z 7 9, 2009 को T. एस. श्रीनिवासन ने अँडवान्सेस सट। ल्सा नशीनरी, नॉन वुवन्स एण्ड टेकनीकल टेक्सटाईल्स , 2009 6ठें अंत य सम्मेलन करन्ट एण्ड न्युचर प्रॉस्पेक्टस फॉर डायवर्सिफाईड ऑफ पर प्रस्तुत किया 1
4. क्राउन farm) T दिनांक 7 से 11 दिसम्बर 2009 ffr ऑईल एण्ड सरफैक्ट्स (आय.सी.ओ. एफ.एच.एस.09) 5 वार्षिक सम्मेलन एस. तिवारी इफेक्ट ऑफ डायमेथिल लेक्सन ऑन थरमल

पॉलीमर ऑफ कॉटन सीड ऑईल पर तुलना करण किया

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व्याक्तक

नियुक्ति

T. महेश्वरण, वैज्ञानिक 4 15 मार्च 2010 क कार्यभार ग्रहण किया ।

पदान्

अ s5.	नाम	जिस ँव पर पदोन्नति हुई	पदोन्नत A प्रभावी तारीख
तक			
1.	श्री. यू.डी. देवी ँर	तकनीकी अधि ँरी, श्रेणी टी-6	28-02-2009
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3.	श्री. D. Or. कोरिया	तकनीकी सहायक, श्रेणी टी-3	18-9-2006
4.	श्री. बी.वी. शि साट	तकनीकी सहायक, श्रेणी टी-3	10-9-2006
5.	श्री. 4". I. शिवाना	तकन की श्रेणी a-3	16-1-2003
		तकनीकी सहायक, Of a-3	16-1-2008
प्रशासनिक			
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1.	श्रीमती बनू सुनिल	तकनीक अधिकारी, श्रेणी टी-5	ए	27-10-2008
2.	श्रीमती वी.जी. उडिकेरी	तकन क सहायक, श्रेणी टी-3	दो	04-08-2008
3.	श्री. आर.पी. कदम	तकनीकी सहायक, श्रेणी टी-3	a1	29-06-2008
4.	श्री. बी.बी. ायकर	कन क अधिकारी, श्रेणी टी-5	-1	07-10-2008

स्थानांतरण

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में दिनां 05-10-2009 तारीख से स्थानांतरण हुआ।

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5. t. वरुखकर, कन
वृत्त ।

प्रशास a)

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प्रशिक्षण/ नार जिनमें चा य भाग

क्र.सं.	प्रशिक्षण का क्रम / नाम	अवधि एवं स्थान	भाग लेने वाले क चा ाम
1.	रिफ्रेशर कोर्स यूजीसी एएससी, भौतिकी व सेमी कन्डक्टर डिवाइस	23 सितंबर से 13 अक्टूबर, मुंबई वर्षावद्यालय, मुंबई	श्री. चित्रनायक
2.	अंतर्राष्ट्रीय ऑडिटर व	5-7 अक्टूबर, 2009, a	श्री. आर.एस. पाठा, श्री. आर.आर. छगानी
3.	एटीव राइटिंग एग्र कल्चर	5-9 अक्टूबर, 2009, R दिल्ली	श्री. एम. चहन
4.	मा डफाइड अॅश्युअर्ड कैरियर प्रोग्रेशन क म	4-5 नवम्बर, 2009, मुंबई	श्री. आर. हा 1
5.	यात्रा भत्ता/एलटीसी/ज्वाइनिंग टाइम	12-13 नवम्बर, 2009, मुंबई	श्री. एस.वी. कसा
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7.	आई.टी. बेस्ड डीसिजन सप फॉर मल्ट डिया वलप ट	17-22 नवम्बर, 2009 करनाल	श्री. एम.
8.	सेक्युरिटी 1 ज ट	नवम्बर 19, 2009, करनाल	श्री. एस.वी.
9.	कम्प्यूटर फंडामेंटल्स	7-11 दिसम्बर, 2009, मुंबई	श्री. के. पाले वर, t. जे.आर. भाग, श्रीमती एस.आर. शिरसाट, श्रीमती एस.जी. परब, श्रीमती .आर. चावकुटे
10.	बेसि ऑफ जटरी एक्सरसाइज	14-15 दिसम्बर, 2009, मुंबई	श्री. एस.डी. आंबोलकर, श्री. टी.डी. धामणगे
11.	लेक्चरअल प्रॉपर्ट U4* स कम श gins शन एग्रीकल्चर	14-15 दिसम्बर, हिसार	श्री. ए.के. भारीमल्ला